

35734

Administration Report

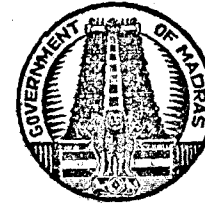
of the

Electricity Department

1950-51

R
CG. 211X N50
N5151
35734





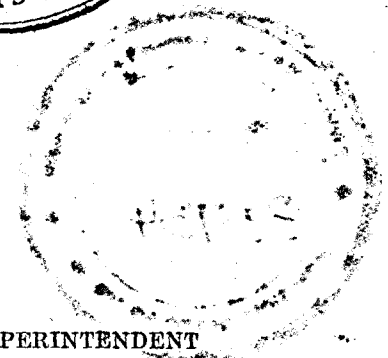
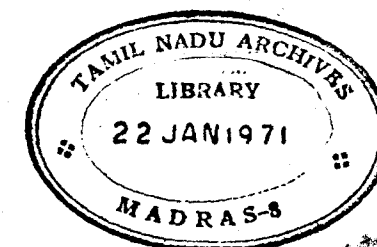
ADMINISTRATION REPORT

OF THE

Asst (A) 577

ELECTRICITY DEPARTMENT

FOR 1950-51



A. S. O. (A)

*211N' N50
N57;1
5734*

BY THE SUPERINTENDENT
GOVERNMENT PRESS
MADRAS
1951

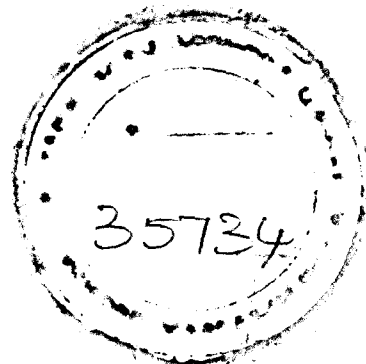
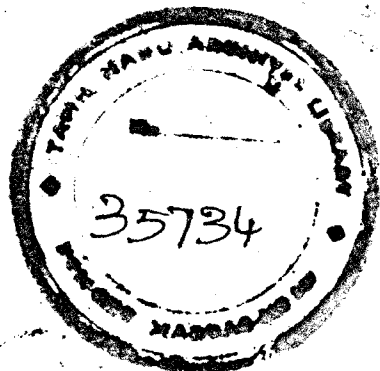
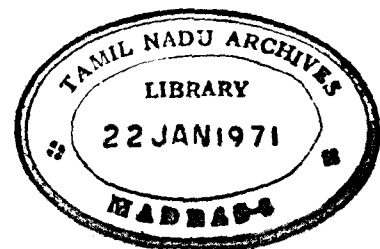
ce, 3 rupees 4 annas

A50(A) 577

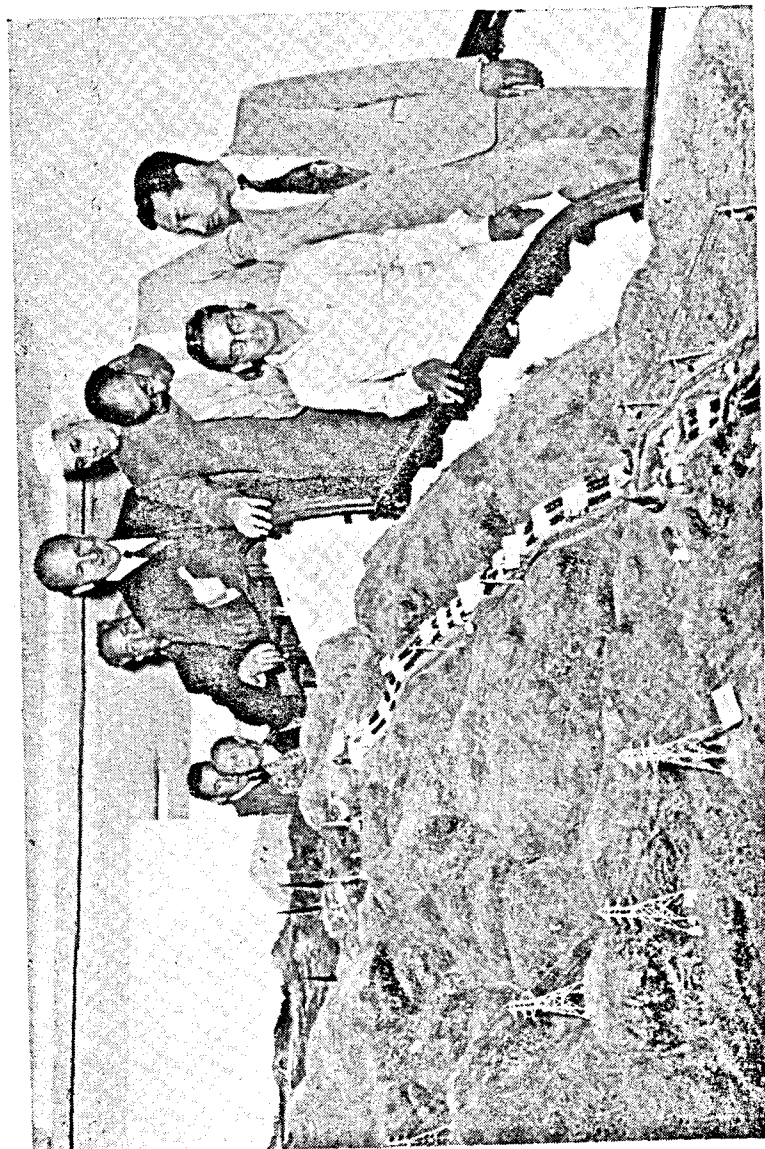
62

R

C6. 211 Y N 50
NSI; 1



C6. 211 Y N 50
NSI; 1



THE HON'BLE PANDIT JAWAHARLAL NEHRU AND MR. DAVID E. LILIENTHAL INSPECTING THE PYKARA MODEL
AT THE MADRAS ELECTRICITY DEPARTMENT STALL—INTERNATIONAL ENGINEERING EXHIBITION, DELHI (15TH FEBRUARY 1951).

CONTENTS

SECTION I—GENERAL REVIEW

PARA.	PAGE
1 Introductory	1
2 Salient features	1
3 Load development	2
4 Financial results	3
5 Number of consumers	3
6 Transmission lines and sub-stations	4
7 Agricultural development	5
8 Firms development schemes	5
9 Construction activities	6
10 Revised estimates	6
11 New Schemes sanctioned	6
12 Programme for 1951-52	7
13 Electrical Inspectorate and licensees	7
14 The Madras Electricity Supply Undertakings (Acquisition) Act, 1949	7
15 Foreign training	8
16 Electricity buildings at Madras	8
17 Electricity (Supply) Act	8
18 Power demand	8
19 Organization	8
20 Accounts branch	9

SECTION II—DETAILED REPORT.

Construction Branch.

21 General	10
22 New schemes sanctioned	11
23 Schemes in progress	11
24 Construction programme for 1951-52	14
25 Audit, Accounts and Stores	15
26 Accidents	16
27 Hydro-electric surveys and investigations	16
28 Organization	17

Technical Branch.

29 Technical branch	17
-----------------------------	----

Operating Systems Branch.

30 General	19
--------------------	----

PARA.	PAGE
<i>Pykara System</i>	
31 General	20
32 Water conditions	21
33 Load development	21
34 Financial results	22
35 Connected load	22
36 Power-house	23
37 Civil and hydraulic works	23
38 Transmission lines	24
39 Extra high-tension and high-tension sub-stations	24
40 Coimbatore Receiving Station	24
41 Distributions	24
42 Industrial extensions	24
43 Cement works	25
44 Tea estates	25
45 Agricultural services and rural industries	25
46 Firka development	26
47 Meter and relay test and special maintenance	26
48 Interruptions and breakdowns	26
49 Stores, Accounts and Audit	26
50 Kollegal distribution	26
51 Programme for 1950-51	26
<i>Mettur System.</i>	
52 General	27
53 Water conditions	27
54 Mettur Power-house	27
55 Load development	28
56 Financial results	28
57 Connected load	29
58 Transmission lines	29
59 Extra high tension and high-tension sub-stations	30
60 Distribution	30
61 Commercial activities	30
62 Rural electrification	30
63 Firka development	30
64 Meter, relay tests and special maintenance	30
65 Interruptions and breakdowns	31
66 Stores, Accounts, Audit and Central Office	31
67 Workshops	31
68 Administration	31
69 Programme for 1951-52	32
<i>Papanasam System.</i>	
70 General	32
71 Water conditions	33
72 Power-house, dam and civil works	33
73 The Madurai thermal station	34
74 Pasumalai sub-station	34

PARA.	PAGE
<i>Papanasam System—cont.</i>	
75 Load development	34
76 Financial results	34
77 Connected load	35
78 Transmission lines	35
79 Extra high tension and high-tension sub-stations	36
80 Distributions	36
81 Industrial extensions	36
82 Commercial activities	36
83 Agricultural services	36
84 Rural industries	36
85 Firka development	36
86 Meter and relay tests and special maintenance	36
87 Interruptions	36
88 Audit, Accounts and Stores	36
89 Programme for 1951-52	37
<i>Madras System.</i>	
90 General	37
91 Load development	38
92 Financial results	38
93 Connected load and number of consumers	38
94 Power-house	39
95 Transmission lines, sub-stations and distributions	40
96 Extensions	41
97 Commercial activities	41
98 Agricultural services	41
99 Stores, Audit and Accounts	41
100 Madras Plant Extensions	42
101 Programme for 1951-52	42
<i>Andhra Power System.</i>	
102 General	43
<i>Visakhapatnam System.</i>	
103 General	44
104 Power-house	44
105 Load development	44
106 Financial results	44
107 Connected load	45
108 Transmission lines, sub-stations and distributions	45
109 Extensions	45
110 Agricultural services	45
<i>Vijayavada System.</i>	
111 General	46
112 Power-house	46
113 Load development	46
114 Financial results	46

PARA.	PAGE
<i>Vijayavada System—cont.</i>	
115 Connected load	47
116 Transmission lines, sub-stations and distributions	47
117 Extensions	47
118 Agricultural services	48
119 Rural industries	48
<i>Kakinada System.</i>	
120 General	48
121 Power-house	48
122 Load development	48
123 Financial results	48
124 Connected load	49
125 Transmission lines, sub-stations and distributions	49
126 Agricultural services	49
127 Rural industries	49
128 Extensions	49
<i>Nellore.</i>	
129 General	50
130 Connected load	50
<i>Kurnool System.</i>	
131 General	50
132 Power-house	50
133 Load development	50
134 Financial results	51
135 Connected load	51
136 Transmission lines and distributions	51
<i>Cuddapah System.</i>	
137 General	51
138 Power-house	51
139 Financial results	52
140 Connected load	52
141 Transmission lines	52
142 Agricultural services	52
143 Rural industries	52
<i>Anantapur System.</i>	
144 General	52
145 Financial results	52
146 Connected load	53
147 Transmission lines and distributions	53

PARA.	PAGE
<i>The Ceded Districts Scheme.</i>	
148 General	53
149 Connected load	53
150 Extensions	53
<i>Rajahmundry.</i>	
151 General	54
<i>Sandur.</i>	
152 General	54
<i>Hindupur.</i>	
153 General	54
<i>Proddatur.</i>	
154 General	54
155 Pirka development schemes in the Andhra area	55
156 Audit, Accounts, Stores and Administration	55
157 Programme for 1951-52	55
<i>Electrical Inspectorate and Licensees.</i>	
158 Electrical undertakings	56
159 Indian Electricity Act and Rules	56
160 Street lighting	57
161 Tariffs	57
162 Inspections	57
163 Restriction and control and freezing orders	57
164 Rationing of electricity	57
165 Supply position in the licensees' areas	57
166 Assistance to licensees in regard to procurement of iron and steel materials	58
167 Surcharges	58
168 Laboratory	58
169 Local authorities electrical undertakings	59
170 Madras Cinematograph Act and Rules	59
171 Cinema Operator's licence	59
172 Administration of the Madras Electricity Duty Act, 1939	60
173 Expenditure and revenue	60
174 Nationalization	60
175 Accidents	62
176 Staff	63
177 Acknowledgment	63

APPENDICES.

APPENDIX A.

List of construction works undertaken with expenditure to end of March 1951	64
---	----

APPENDIX B.

Budget provision for Capital Works in 1951-52	65
---	----

APPENDIX C.

Details of establishment charges by this department and fee earned during 1950-51 and estimated for 1951-52	70
---	----

APPENDIX D.

1 Licensee electric supply undertakings in service	75
2 Licensees under construction	75
3 New applications for licensees	75
4 List of undertaking put into service	76
5 List of licensees who reduced tariffs	76
6 List of licensees who increased the tariffs	76
7 List of licensees charging more than 6 annas per unit for lighting and fans	76

APPENDIX E.

Total capacities of plants installed in electric supply undertakings in service in the State.	76
---	----

APPENDIX F.

1 Table of electric supply cost and records of company licensees	78
2 Table of electric supply costs and records of Local authorities licensees	82
3 Statistical data regarding units generated, etc., of company licensees	86
4 Statistical data regarding units generated or purchased, etc.—Local authorities licensees	96
5 Classification of units sold by licensees—Companies	108
6 Classification of units sold by licensees—Local authorities	108

APPENDIX G.

1 List of high tension consumers supplied by the Electricity department—Pykara System	109
2 Do. do. Mettur System	110
3 Do. do. Papanasam System	110
4 Do. do. Madras System	111
5 Do. do. Andhra System	111
6 List of textile mills and other high-tension consumers in electric licensees' areas	112

APPENDIX H.

1 List of villages and towns supplied with electrical energy by the Government Electricity department	114
2 List of villages and towns supplied with electrical energy by licensees	123

APPENDIX I.

List of power-houses, extra high tension, high tension and distribution transformer stations—

1 Pykara System	134
2 Mettur System	134
3 Papanasam System	136
4 Madras System	136
5 Andhra System	138

APPENDIX J.

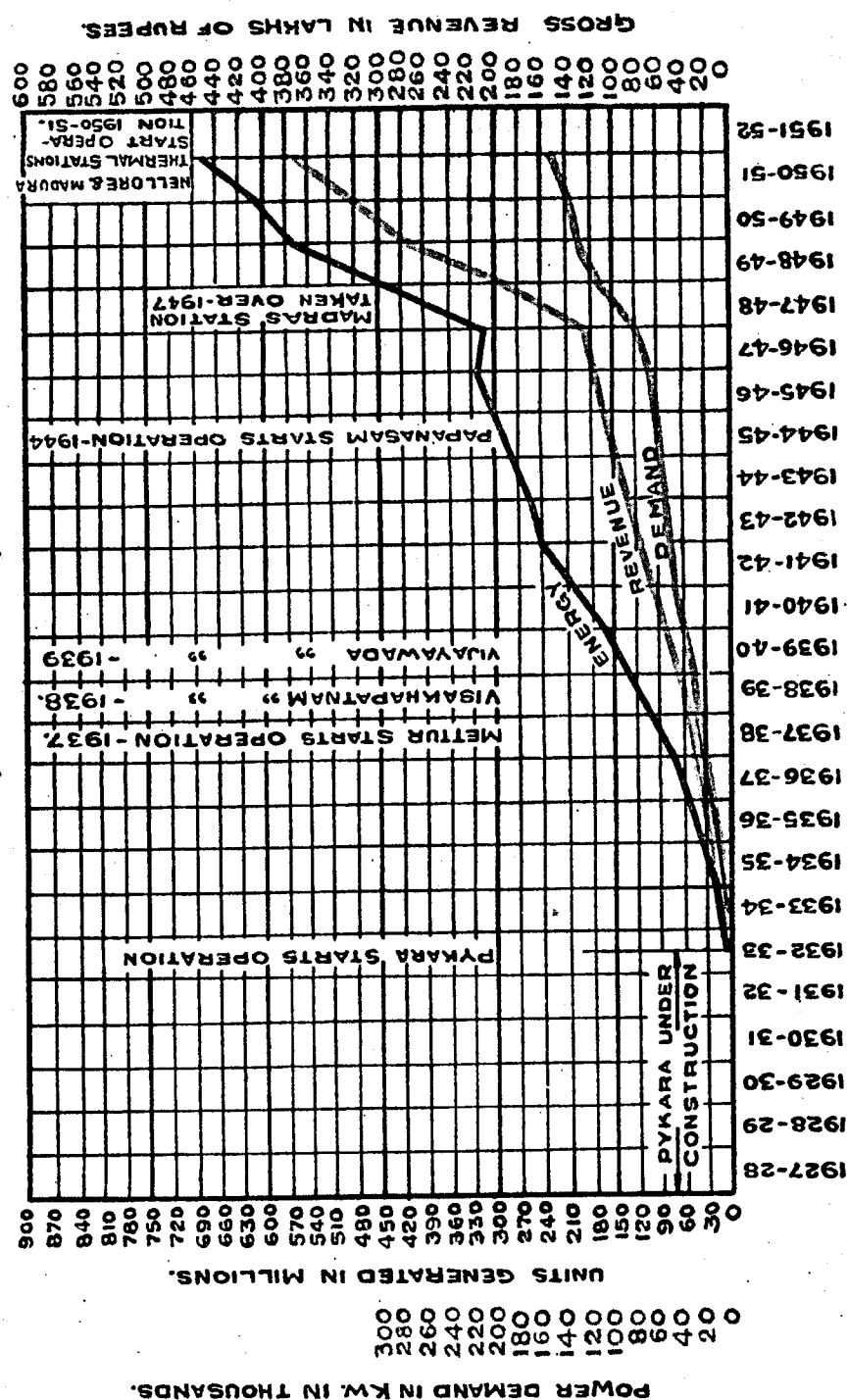
Consolidated balance sheet as on 31st March 1950	140
--	-----

CONTENTS

LIST OF ILLUSTRATIONS.

(i) The Hon'ble Pandit Jawaharlal Nehru and Mr. David E. Lilienthal inspecting the Pykara model at the Madras Electricity department stall—International Engineering Exhibition, Delhi (15th February 1951).	Frontis piece.
(ii) Chart I indicating the growth of revenue and demand in the Government power systems, 1927-1951	FACING PAGE 1
ii) Chart II indicating the utilization of power generated in the Madras State during 1950-51	3
v) Moyar penstock under erection	6
v) Chart III showing the organization of the department	8
i) Moyar power-house—steel frame work under erection	11
i) Papanasam IV unit	12
i) Mathurai thermal station—external view	32
c) Mathurai thermal station—inside view showing turbo set	34
) International Engineering Exhibition, Delhi—Madras Electricity department stall	19
) General view of the three natural draught cooling towers—Madras system.	37
) Madras system—General view of the steel frame work of the 'B' station under erection	42

**MADRAS ELECTRICITY DEPT.
GROWTH OF POWER DEMAND & REVENUE
(1927—1951)**



ADMINISTRATION REPORT OF THE ELECTRICITY DEPARTMENT FOR 1950-51.

SECTION I—GENERAL REVIEW.

1. *Introductory.*—This is the twenty-fourth annual report of the electricity department covering the record of progress during 1950-51.

2. *Salient features.*—The following were the salient features in the administration of the department:—

(1) Works connected with the five-year plan of power development in the State were in various stages of progress and capital expenditure on new projects and extensions during the year totalled Rs. 7.37 crores, again constituting a record.

(2) The Nellore thermal station designed to serve the Nellore district commenced operation on 2nd October 1950 with 2—2,500 KW. transportable steam turbo-alternator sets and associated oil-fired boilers.

(3) The Madhurai thermal station intended to supplement the output of the Papanasam Hydro-Electric Station was commissioned on 19th February 1951 with a 4,000 KW. steam turbo-alternator set and associated coal-fired boilers.

(4) The IV turbo-alternator set of 1,500 KW. capacity was commissioned during March 1951 in the Visakhapatnam power house.

(5) The IV 7,250 KVA. transformer at Papanasam power house was erected and tested.

(6) Power demands totalled 147,500 KW. and energy generated by department amounted to 681.59 million units.

A chart indicating the growth of revenue and demand in the Government power systems during 1927-51 faces this page.

(7) Due to the feeble north-east monsoon in the Mettur catchment area and the extended period of irrigation discharge at Mettur, water conditions at Mettur became unsatisfactory necessitating the imposition of a 15 per cent cut on all consumers except a few essential classes of consumers in the hydro-electric areas from 15th February 1951. Good inflows in April, however, enabled removal of the cut early in May 1951.

(8) Electricity was extended to 288 more villages and to 2,729 irrigation pumpsets during the year. The villages electrified in the State so far number 1,957 and the electric pumpsets number 16,654.

(9) The following licensees undertakings vested in the Government on the dates noted:—

- (1) Bellary Municipal Undertaking—10th May 1950.
- (2) Hindupur Municipal Undertaking—30th June 1950.
- (3) Proddatur Licensee Undertaking—29th December 1950.
- (4) Alandur Panchayat Undertaking—25th January 1951.
- (5) Villivakkam Panchayat Undertaking—15th February 1951.
- (6) Narasaraopet Licensee Undertaking—26th February 1951.
- (7) Hospet Municipal Undertaking—16th March 1951.

(10) The valuation of the assets of the Madras Electric Supply Corporation taken over by the Government on 29th August 1947 was settled by negotiation at Rs. 215 lakhs leaving for arbitration only the question of payment for service-connexion portion paid for by consumers. The balance amount due to Madras Electric Supply Corporation together with interest thereon was paid to the Company in March 1951.

(11) This department participated in the International Engineering Exhibition held at New Delhi in January and February 1951. The models in the departmental staff won the appreciation of all the visitors including the Prime Minister of India, the Hon'ble Pandit Jawaharlal Nehru.

3. *Load Development.*—In view of the shortage of generating and transformer capacity in all the systems of the department, load development during the year was mostly confined to agricultural, domestic and essential industries.

The aggregate of the power demands on the Government Systems was 147,500 KW. and the units generated 681.59 million units against 129,137 KW. and 605.8 million units in 1949-50—vide details given below :—

Name of system.	Demand in K.W.	Total generation in millions of units.
I. Hydro-electric—		
1 Pykara	41,450	227.80
2 Mettur	41,100	183.10
3 Papanasam	20,500	99.27
II. Thermal—		
1 Madras	27,800	120.80
2 Madurai	4,000	1.07
3 Visakhapatnam	3,000	13.40
4 Vijayavada	4,902	22.63
5 Kakinada	1,100	3.67
6 Kurnool	360	0.876
7 Cuddapah	200	0.694
8 Anantapur	100	0.23
9 Sandur	38	0.047
10 Nellore	600	1.05
III. Power purchased from Mysore—		
1 Ceded Districts	2,160	6.7
2 Hindupur	180	0.200
Total ..	147,500	681.587 or 681.59

Figures for power generation in the State from all sources were as follows :—

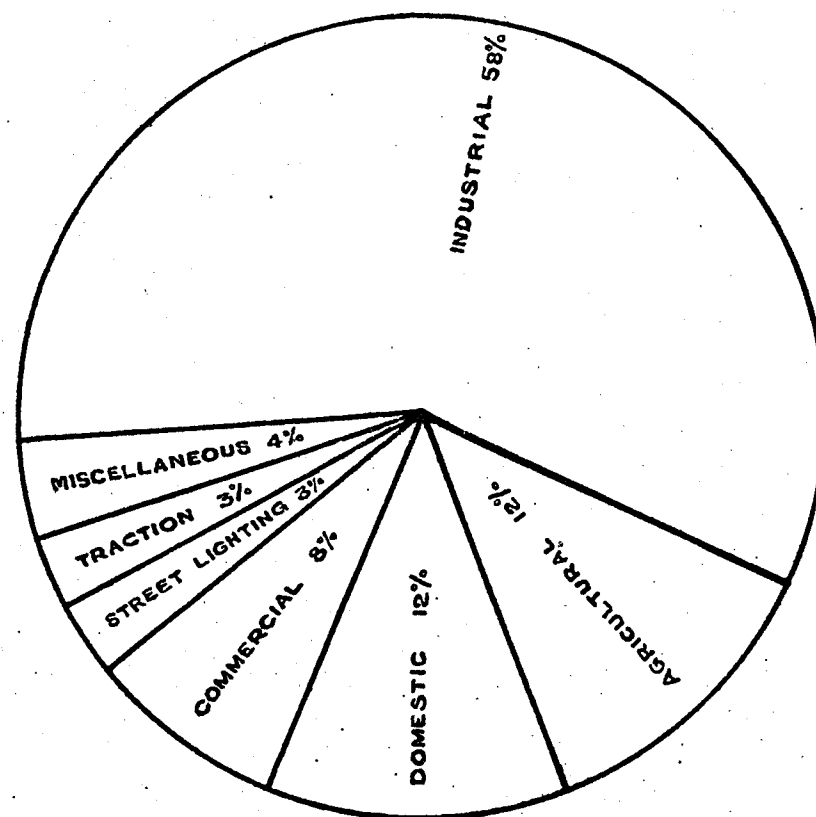
	Generation in millions of units.
I. Government—	
1 Hydro-electric	510.17
2 Thermal	164.517
3 Purchased from Mysore	6.90
4 Licensees	4.65
Total ..	686.237

The total generation in the State increased by about 10 per cent over the figure of 611.92 millions for 1949-50. It would be seen that more than 99 per cent of the generation in the State was by the department.

Power generated was utilized as under :—

Serial number.	Use.	Percentage of power generated.
1	Industrial supplies	58
2	Irrigation and agriculture	12
3	Domestic heat, power, lights and fane	12
4	Commercial do.	8
5	Public lighting	3
6	Traction	3
7	Miscellaneous	4
Total ..		100

UTILIZATION OF ELECTRIC POWER IN MADRAS STATE 1950-'51



Hellio, P. Z. P., C. S. O., Madras.

Reproduced From Indentor's Original

Reg. No. 40 '51 - 800
2

ELECTRICITY DEPARTMENT, FOR 1950-51

3

A chart indicating the utilization of power generated in Madras State during 1950-51 faces this page.

4. *Financial results.*—The gross revenue earned by the departmental undertakings in operation during 1950-51 was Rs. 377.64 lakhs against 315.2 lakhs in 1949-50, an increase of 19.8 per cent. Details of the total capital outlay, gross revenue, working expenses and net revenue of the systems are furnished hereunder:—

Name of Government system.	Year of operation	Total capital outlay.	Gross revenue.	Total working expenses including depreciation and reserve fund.	Net revenue Col. (4) — Col. (5).
(1)	(2)	(3)	(4)	(5)	(6)
		RUPEES IN LAKHS.	RUPEES IN LAKHS.	RUPEES IN LAKHS.	RUPEES IN LAKHS.
I. Hydro-electric—					
1 Pykard	Eighteenth.	535.53	93.61	102.94	117.64
2 Mettur	Fourteenth.	552.60	85.97		
3 Papanasam	Seventh ..	418.60	41.00		
II. Thermal—					
1 Madras	Fourth ..	336.96	116.13	124.34	27.10
2 Visakhapatnam	Twelfth ..	68.57	11.43		
3 Vijayavada	Twelfth ..	89.18	14.60		
4 Kakinada	Eleventh ..	17.20	4.44		
5 Kurnool	Fourth ..	3.92	1.49		
6 Cuddapah	Third ..	8.23	1.40		
7 Anantapur	Second ..	2.79	0.71		
8 Sandur	Second ..	0.29	0.11		
9 Rajahmundry	Second ..	8.05	2.58		
10 Nellore	First ..	52.97	0.62		
III. Power purchased from Mysore—					
1 Ceded Districts	Second ..	67.89	3.27	2.99	0.56
2 Hindupur	First ..	2.52	0.28		

The return on capital outlay in Operating Systems works out to 17.4 per cent gross and 6.8 per cent nett.

The receipts from the Inspectorate amounted to Rs. 15.01 lakhs made up of Rs. 11.95 lakhs from the Electricity duty, Rs. 1.32 lakhs from inspection under the Indian Electricity Act, Cinematograph Act, etc., Rupees 1.46 lakhs from penalty for excess consumption, Rs. 0.20 lakh from royalty for use of Government water for generation of electricity and 0.08 lakh from fees for audit of licensees' accounts.

5. *Number of consumers.*—There were 275,697 consumers served by all the electrical undertakings in the State including the Government ones. Two hundred and seventy-four thousand and thirty-three consumers were in the area covered by Government undertakings 110,825 served directly by the Electricity Department and 163,206 by licensees distributing Government Power. The balance, viz., 1,664 were served by generating licensees. Details are given in the statement below:—

Name of system.	Number of consumers.		
	Served by the Electricity Department.	Served through distributing licensees in Government areas.	Served by other licensees.
I. Hydro-electric—			
1 Pykara	24,646	29,510	..
2 Mettur	23,369	84,596	..
3 Papanasam	17,764	32,413	..

1A

Name of system.	Number of consumers.		
	Served by the Electricity Department.	Served through distributing licensees in Government areas.	Served by other licensees.
II. Thermal—			
1 Madras	34,460	289	..
2 Visakhapatnam	2,589	3,197	..
3 Vijayavada	1,444	9,398	..
4 Kakinada	1,696	1,869	..
5 Kurnool	1,112	..	..
6 Cuddapah	1,044	..	..
7 Anantapur	483	..	..
8 Sandur	300	..	..
9 Nellore	2	1,379	..
10 Proddatur	123	..	..
III. Power purchased from Mysore—			
1 Ceded Districts	1,452	555	..
2 Hindupur	343	..	..
Total	110,827	163,206	274,033
Other licensees	..	..	1,664
Total	..	..	275,697

During the year under review, electricity was extended to 224 villages by the department and to 64 villages by the licensees. The total number of villages and townships having electric supply at the end of 1950-51 are 1,816 and 141 respectively which are supplied by the department and by the licensees as under :—

	Number of villages.	Number of towns.
Supplied by the department	1,060	41
Supplied by the licensee	756	100
Total	1,816	141

Appendices H-1 and H-2 give the names of villages and towns having electric supply fed by the department and by licensees.

6. *Transmission lines and substations.*—The route mileage of Government transmission and distribution net work increased by 1,395 miles during the year. The total mileages of high-tension and low-tension lines in each system at the end of the year are furnished hereunder :—

Name of system.	Number of route miles of lines.		Total.
	H.T.	L.T.	
Pykara	1,722	1,685	3,407
Mettur	1,826	1,027	2,853
Papanasam	594	409	1,003
Madras	213	459	672
Andhra	744	431	1,175
Total	5,099	4,011	9,110

Details of power transformer stations are furnished below :—

System.	66 and 110 K.V.		22 and 33 K.V.	
	Number.	Capacity. K.V.A.	Number.	Capacity. K.V.A.
Pykara	8	82,250	3	2,750
Mettur	15	62,100	11	12,000
Papanasam	7	31,750	5	7,975
Madras	1	7,500	10	20,350
Andhra	3	5,250	15	15,100
Total	34	188,850	44	58,175

NOTE.—Does not include transformers in power-houses.

7. *Agricultural Development.*—In view of the difficult food position in the State, high priority was given to schemes for agricultural pumping. Over two thousand two hundred and eighty agricultural pumpsets were connected by the department and 449 by licensees during the year. Details of the number of agricultural services with their connected load in the different areas at the end of 1950-51 are given below :—

Name of the works.	Number of services connected in 1950-51.	Connected load in K.W.	Total number of services at the end of the year.	Total connected load in K.W. at the end of 1950-51.
Pykara system	834	3,986	6,535	28,940
Mettur system	690	2,892	3,715 + 266*	15,283†
Papanasam system	509	1,480	1,124	3,581
Madras system	133	543	219†	882
Visakhapatnam system	7	62	25	146
Vijayavada system	86	294	565	2,033
Kakinada system	16	253	27	306
Kurnool system	..	..	1	2
Cuddapah	3	11	7	47
Anantapur	..	..	5	13
Ceded Districts Scheme	..	..	..	..
Proddatur	1	6	1	6
Total	2,279	9,527	12,224 + 266*	51,239
Licensees distributing Government power.	449	1,612	4,097	17,713
Total	2,728	11,139	16,321 + 266*	68,952
Other licensees	..	..	67	246
Total in all areas	2,728	11,139	16,388 + 266*	69,198

The target for agricultural pumpsets fixed for the year 1950-51 was 3,150, but the department could connect up only 2,280 pumpsets. Though the department was ready with the necessary lines, in many cases the consumers were not ready with their pumpset to take supply.

The demand for power for agricultural purposes continues unabated and a large number of applications are pending in the several systems.

8. *Firka Development Schemes*—(i) *Southern area.*—Eighteen electrification schemes costing about Rs. 17.13 lakhs were sanctioned under the Firka development scheme for supplying power for agricultural, domestic and street lighting purposes in a number of villages in the following selected firkas: Kundah, Gudalur, Palladam, Tirupur, Avanashi, Kalasapakkam, Kadambuli-yur, Nagari, Tiruvallur, Veerapandy, Tirumangalam, Malli and Palayam-kottai firkas. These schemes also provide for supply to nearly 610 agricultural

* Represents agricultural services taken over from the North Arcot district licensee.

† Does not include connected load of agricultural services taken over from the North Arcot district licensee.

‡ Includes also three numbers agricultural pumpsets taken over from Alandur and Villiyakkam.

pumpsets. Work on many of the schemes was commenced and is in progress. Schemes which had been sanctioned previously but not taken up for execution were also taken up for execution.

(ii) *Northern area.*—A scheme for extension of electricity to 70 pumpsets and industrial and domestic loads in Rajahmundry firka costing Rs. 3.04 lakhs was sanctioned during the year. Construction works in Pendurti, Dendulur and Rajahmundry firkas are in progress. Roza village in Kurnool firka, Pedagadi, Gurampalem and Pendurti villages in Pendurti firka and Kateru in Rajahmundry were given supply. Proposals for extending electricity to Tiruvur, Burgupudi, Proddatur, and supplemental scheme for Dendulur firka have been worked out and are under scrutiny.

9. *Construction activities.*—The construction activities of the department expanded considerably during the year and a capital expenditure of nearly Rs. 4.14 crores was incurred by the construction branch on major schemes and transmission lines construction.

The following major constructions were in progress during the year :—

- (1) The Machkund hydro-electric scheme.
- (2) The Moyar hydro-electric scheme.
- (3) Pykara plant extensions III stage.
- (4) Papanasam plant extensions II stage.
- (5) Madurai thermal scheme.
- (6) Madras plant extensions.
- (7) The Madras-Mettur interconnection scheme.
- (8) The Papanasam-Tirunelveli-Kayattur 66 KV. line.
- (9) Pykara-Coimbatore-Madurai 3rd circuit.
- (10) South Kanara scheme (for taking supply from Mysore, for South Kanara district).
- (11) Ceded districts scheme.
- (12) 66 KV. extension to and construction of a sub-station at Pollachi.
- (13) Erode-Tiruchirappalli-Dalmiapuram extensions.
- (14) Erode-Salem extensions.
- (15) Chingleput-Kancheepuram-Arkonam extensions.
- (16) Tanjore-Chidambaram-Mayuram extensions.
- (17) West Godavari scheme.

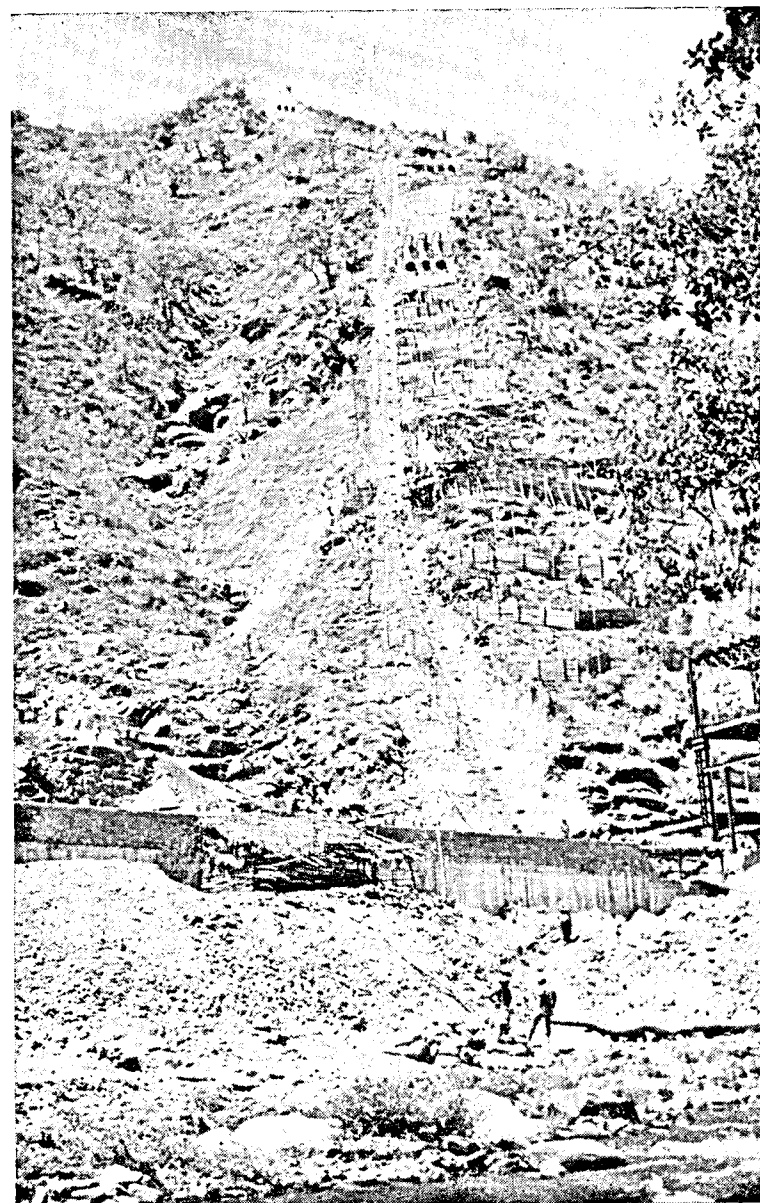
Details of the present stage of these major schemes are given in section II of the report.

10. *Revised estimates.*—Revised estimates were got sanctioned for the following works consequent on the rise in price of materials and labour :—

	Sanctioned Estimates. RUPEES IN LAKHS.	Revised Estimates. RUPEES IN LAKHS.
1 Pykara III stage extensions	216.99 rising to 369.99	326.35 rising to 489.35
2 Erode-Salem extensions	24.86 rising to 29.5	39.18 rising to 44.98
3 Madras-Mettur interconnection scheme	77.5	123.94 rising to 218.00

11. *New schemes sanctioned.*—The following major schemes were sanctioned during the year :—

(1) The Tungabhadra hydro-electric scheme which provides for two power houses, one at the foot of the Tungabhadra dam and the other lower down on the irrigation canal, together with transmission lines and sub-stations at an estimated cost of Rs. 733.01 lakhs.



MOYAR PENSTOCK—A VIEW OF THE PROFILE FOR THE PENSTOCK LINE TAKEN FROM BOTTOM—NOTE THE COMPLETED ANCHORS AT THE TOP AND BENDS BEING PLACED IN POSITION AT I. 21ST APRIL 1951.

(2) A scheme for supply of power to South Kanara from the Jog hydro-electric scheme of the Mysore Government at an estimated cost of Rs. 48.32 lakhs.

(3) The construction of the third circuit for the Pykara-Coimbatore-Madurai 110 KV. line at an estimated cost of Rs. 99.00 lakhs.

12. *Programme for 1951-52.*—All the remaining 28 local authority electrical undertakings will be taken over. The following is the programme for 1951-52 for taking over the private undertakings in this State:—

- (i) Ongole—16th April 1951.
- (ii) Udipi—1st June 1951.
- (iii) Srikakulam—7th June 1951.
- (iv) Salur-Parvathipur—15th June 1951.
- (v) Union Cochin—15th June 1951.
- (vi) Rajahmundry—1st July 1951.
- (vii) West Ramanathapuram—21st September 1951.
- (viii) Adoni—25th September 1951.
- (ix) Nellore—28th September 1951.

The supply position in some of these undertakings not being quite satisfactory, immediate arrangements will be made to improve position by installing one or more diesel sets in the stations where required.

Work on the major projects like Machkund hydro-electric scheme, Moyar hydro-electric scheme, Pykara plant extensions, Papanasam plant extensions, Madras plant extensions, etc., will continue to be in full progress.

The erection of diesel sets at Nandyal, Tadpatri, Srikakulam and other places in the Andhra area to improve power position will be completed.

Work connected with the transmission lines like Madras-Mettur, Erode-Tiruchirappalli-Dalmianagar, Erode-Salem, Tanjore-Mayuram-Chidambaram, Vijayavada-Rajahmundry-Samalkot, Bellary-Rayadrug 33 KV. lines, etc., will be in full progress.

13. *Electrical inspectorate and licensees.*—The number of licensees' undertakings at the close of the year was 68 of which 26 were managed by local bodies. There were three sanctions, viz., Rameswaram, Sembium and Kasaragode operating under section 28 of the Indian Electricity Act in addition to the above.

The East-Coast electric licensee commenced supply on 2nd September 1950 and the licence granted to the Ponnani licensee was revoked.

No new licence or extension of period or area of licences was sanctioned.

In order to encourage rural electrification in licensees' areas a loan of Rs. 5 lakhs was sanctioned to the South Madras Electric Supply Corporation for supply to certain villages in the Musiri and the Kulittalai taluks in the Tiruchirappalli district and in the Sivaganga taluk in Ramanathapuram district.

The Bellary, Hindupur, Proddatur, Alandur, Villivakkam and Hospet undertakings were taken over by Government.

The total number of cinemas in the State at the end of the year was 1,203 of which 479 were permanent and 724 temporary.

The total number of accidents during the year including those on lines owned and operated by Government was 189 of which 47 were fatal.

14. *The Madras Electricity Supply Undertakings (Acquisition) Act, 1949.*—Under the provisions of this Act, all the local authority electric licensees and eleven private licensees were served with notices declaring that their undertakings would vest in the Government during 1950 and 1951.

15. *Foreign training.*—Sri P. V. A. Narayanamurthi, Superintending Engineer, completed his training in the works of Messrs. Westinghouse Electric Corporation, United States of America, and returned to India in April 1951. He has joined duty as Superintending Engineer, Madras Electricity System. Sri Y. S. Rao, Assistant Engineer who was on deputation to United Kingdom, returned to India in April 1951 after completion of his training with Messrs. Babcock and Wilcox, Limited, for nearly a year and a half, and has joined the Basin Bridge power station. Sri P. Rajagopal Pillai is still in United States of America on higher technical training.

Sri O. L. N. Reddi, a departmental Assistant Engineer, who had proceeded to United States of America for foreign training under the overseas scholarship scheme, returned to India in October 1950 and joined as Assistant Engineer. Sri V. Ganesan and Sri T. L. N. Prasad who had been deputed to United States of America for foreign training for two years under the overseas scholarship scheme underwent training in the Westinghouse Electric Corporation and returned to India in March 1951. They have been posted as Assistant Engineers in the department.

16. *Electricity buildings at Madras.*—The repairs and remodelling of the ordnance clothing factory building at Madras intended for accommodation of the departmental offices were almost completed, and almost all the offices of the electricity department in the city have moved into the new buildings.

17. *Electricity (Supply) Act.*—The question of modification of the existing standard form of agreement for bulk supply to licensees to accord with the provisions of the Act was under the consideration of Government, and final orders have since been issued.

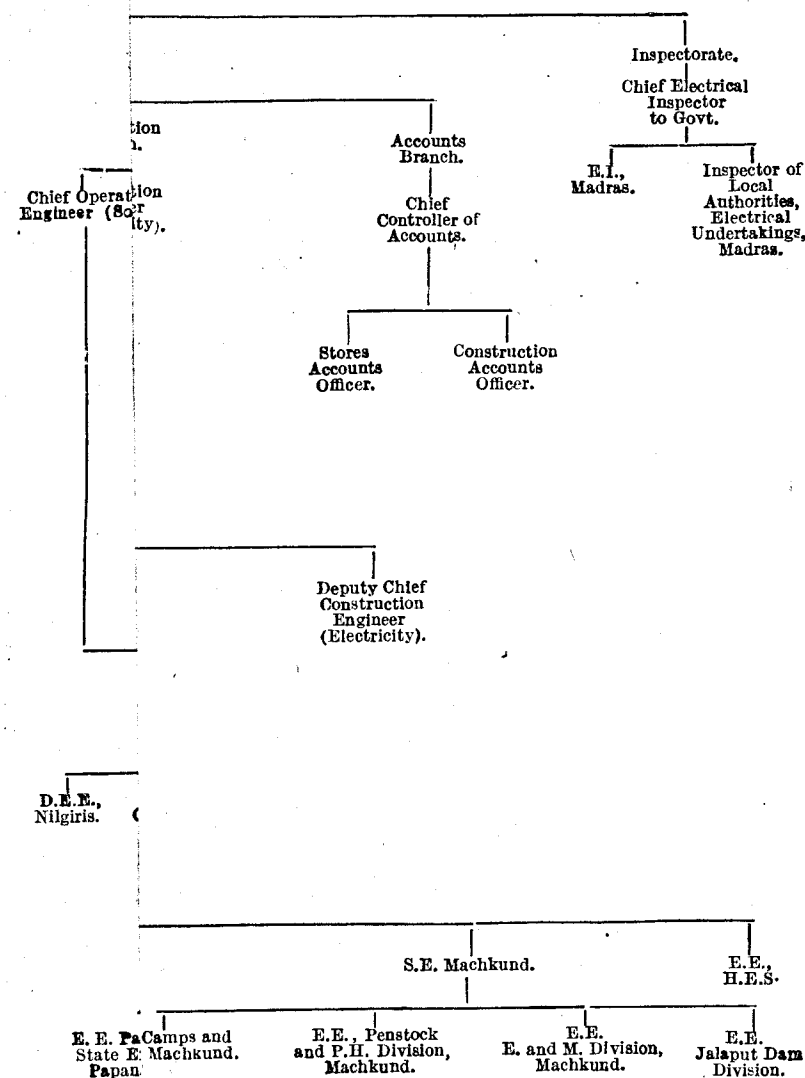
18. *Power demand.*—There is a very large and ever increasing demand for power in the State for industrial and agricultural purposes. The department is not in a position to cater satisfactorily to the needs of the consuming public in view of the shortage in generating and transformer capacity in all power stations. The load of the department is increasing at such a pace that by the time the present five-year development programme is completed, there may not be sufficient margin of power to meet other industrial loads that may arise in future. In order to provide for this contingency, the Kundah and Periyar hydro-electric schemes are being finalized and report will be submitted to Government for sanction. Their execution has to be taken up without delay.

The agreement covering the Mekadatu deal with Mysore Government mentioned in the last year's report has not yet been completed. The draft agreement with Travancore-Cochin Union regarding Periyar development was finalized and acceptance is awaited.

19. *Organization.*—The framework of the organization of this department is given in the chart on the opposite page. Additional posts sanctioned during the year were five divisions (electrical) and four divisions (civil) as detailed below.

Two new divisions, one electrical and one civil, were added to the technical branch, in June 1950, for attending to the work connected with 'B' station extensions of the Madras electricity system.

A new operation division was added to the Andhra system in June 1950 with headquarters at Nellore for running the thermal station at the place and also the distributions around Nellore. This Divisional Engineer was also placed in charge of the balance of construction works relating to the thermal station till their completion.



In connection with the Madurai thermal station (located at Samayanallur) which commenced operation in February 1951 a Divisional Engineer with gazetted and non-gazetted staff has been posted for the charge of the station.

The construction of the Jalaput dam (Machkund scheme) having been sanctioned during the initial construction stage of the Machkund scheme, a new division (civil) to be in charge of the work relating to the dam was formed in November 1950 under the Superintending Engineer, Machkund.

A new construction division (civil) under the Superintending Engineer, General Construction Circle, with headquarters at Kancheepuram was formed in January 1951 for attending to the balance of works connected with Madras-Mettur inter-connection scheme, and for the Arkonam-Kancheepuram-Chingleput extensions.

Another new construction division (civil) under the Superintending Engineer, General Construction, was formed in February 1951 with headquarters at Mangalore for work relating to the extension of lines from Mysore border to South Kanara district.

The post of Special Officer, Hydro-Electric Surveys, was abolished in October 1950 and the Executive Engineer, Hydro-Electric Surveys as well as the Hydro-metric subdivision, were placed under the control of the Chief Construction Engineer.

In connexion with the acquisition of all local authority undertakings and a few licensee undertakings, two divisions (electrical) and certain technical and accounting staff for taking over the technical and accounts sides of the undertakings have been sanctioned by Government for the systems concerned and they were fully engaged on the work at the end of the year under report.

20. *Accounts branch.*—The reorganized accounts branch of the department under the Chief Controller of Accounts was very busy. The accounting staff in the field and headquarters offices was reorganized. After discussion with the Superintending Engineers and consultation with the Chief Operation Engineers, methods and procedure for the speedy implementation of the accounts reorganization were being finalized by the Chief Controller of Accounts.

In connexion with the acquisition of the local authorities electrical undertakings during 1951-52 under the Madras Electricity Supply Undertakings (Acquisition) Act, 1949, proposals for continuing the existing accounting procedure by the staff taken over and to fit in the same in the departmental accounting system have been submitted to Government, with a view to avoid any inconvenience to the consuming public on account of the changeover to Government management. This arrangement will be tried for a period of six months or one year before integrating the acquired undertakings with the departmental system fully.

The question of taking security deposits from consumers in cash and paying interest thereon instead of obtaining national savings certificate as at present was under the consideration of Government.

The departmental rules for contributions to the depreciation reserve fund were reviewed in view of the coming into force in this State of the Electricity Supply Act, 1948, and proposals were submitted to Government for revising the permissible percentage of accumulation of the depreciation reserve fund from 30 per cent to 90 per cent of the capital cost as per provisions in the Act. The financial position of the thermal schemes of Vijayavada, Visakhapatnam, Kakinada, Kurnool, etc., was reviewed and Government orders obtained for making contributions to the depreciation reserve fund to the extent that the

surplus of revenue over working expenses permitted, subject to the percentage of contribution each time. Government also permitted that arrears of depreciation contributions may be made good by these schemes if the revenue permitted after making the annual contributions due.

The British tabulating machine system was introduced in the Madras system during the year under review in respect of billing, store accounting and pay roll accounting. This is expected to result in efficiency and quickness. A similar scheme for Mettur system has also been approved.

National Cash Registers are now installed in many pay offices of the Madras Electricity system and receipts to consumers are issued from these machines.

There were 83 stores (75 sub-stores and 8 central stores) in the department having in all about 56,000 items. The value of stores at the beginning and the end of the year was Rs. 328.66 and Rs. 337.01 lakhs respectively. The reserve limit of stock for the department was Rs. 382 lakhs and the total balance under stock in the stores was well within this limit. The total value of stores acquired during the year amounted to Rs. 504.16 lakhs and the total value of stores issue amounted to Rs. 492.41 lakhs.

Physical verification of stock was completed in 36 stores. Twenty-five new stores were opened during the year.

The balance-sheet of the department for 1949-50 is appended to the report as Appendix J.

SECTION II—DETAILED REPORT.

CONSTRUCTION BRANCH.

21. *General.*—The Construction branch, which handles most of the major construction works of the department, under the Chief Construction Engineer (Electricity) continued to be very busy, with the progress of works in execution as well as New Schemes sanctioned during the year. Consequent on the abolition of the post of Special Officer for Hydro-Electric Surveys from 2nd October 1950, the hydro-metric and hydro-electric survey works and investigation were transferred to the control of the Construction branch. Satisfactory progress was made on all schemes under execution consequent on the derationing of petrol and easing in the supply position of cement.

Capital expenditure incurred by this branch during the year amounted to Rs. 4.14 crores.

The following transmission and telephone lines were completed, tested and handed over to the Operation branch :—

- (1) The 110 K.V. line between Pykara-Moyar and Erode—length 82 miles.
- (2) The 33 K.V. line from Kancheepuram to Arkonam—length 16.8 miles.
- (3) The 33 K.V. line from Samayanallur to Pasumalai—length 6 miles.
- (4) The telephone line from Singarappet to Basin Bridge—length 130 miles.

The new power stations, the Nellore thermal station and the Madurai thermal station were commissioned on 2nd October 1950 and 19th February 1951 with installed generating capacities of 5,000 K.W. and 4,000 K.W. respectively.

22. *New schemes sanctioned.*—The following are the major new schemes sanctioned during the year under review :—

	Initial cost. RUPEES IN LAKHS.
1. Supply of power to South Kanara from the Jog Hydro-Electric Scheme of the Mysore Government.. ..	48.32
2. Pykara-Coimbatore-Madurai 110 K.V. line	99.00
3. The Tungabhadra Hydro-Electric Scheme	733.01

23. *Schemes in progress.*—The following major construction works sanctioned in previous years were in progress :—

	Initial cost. RUPEES IN LAKHS.
1. The Machkund Hydro-Electric Scheme	1,282.87
2. The Moyar Hydro-Electric Scheme	364.20
3. The Pykara Plant Extensions III Stage	326.35
4. The Papanasam Plant Extensions	47.83
5. The Madurai Thermal Scheme	131.60
6. The Madras-Mettur Interconnection Scheme	123.94
7. The Erode-Tiruchirappalli-Dalmianagar Extensions	39.80
8. The Erode-Salem Extensions	24.86
9. The Tanjore-Mayuram-Chidambaram Extensions	24.74
10. The Madurai-Thirumangalam-Rajapalayam Extensions	55.10
11. The Kancheepuram-Chingleput-Arkonam Extensions	16.70
12. The Papanasam-Tirunelveli-Kayattar 66 K.V. line	28.15
13. The Madurai-Sivaganga Ex'tensions	22.82

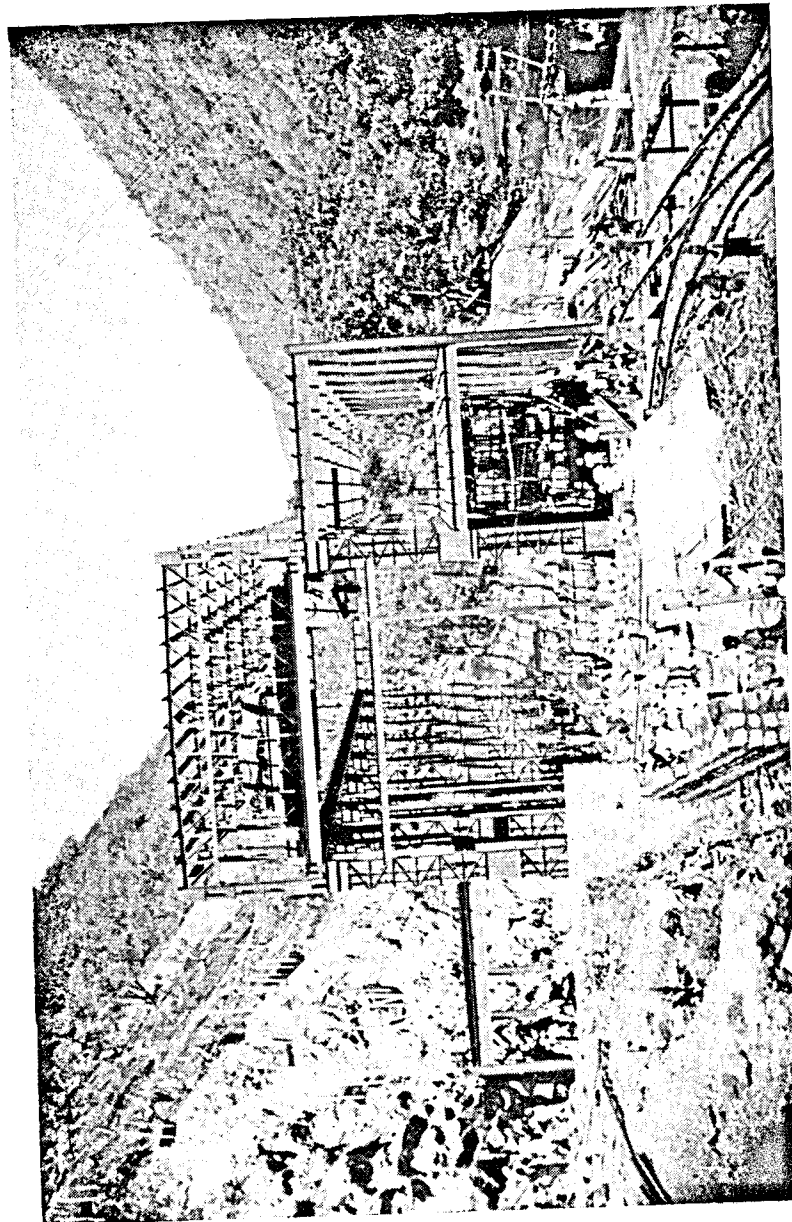
A new transmission line construction circle was formed in April 1950 to be in charge of transmission line and sub-station construction works in the Andhra Area and is under the control of the Chief Operation Engineer (North).

The following major construction works which were previously being handled by the construction branch have since been transferred to the new circle :—

Name of work.	Cost. RUPEES IN LAKHS.
1. The Vijayavada-Rajahmundry-Samalkot Extensions	157.0
2. The Visakhapatnam Powerhouse Extensions	22.91
3. The Nellore Thermal Scheme	59.71
4. The Ceded Districts Scheme	75.78
5. The Hindupur Distribution Scheme	4.92
6. The 11/33 K.V. line from Beilary to Rayadrug	6.81

Besides the above the new circle was in charge of the following :—

Name of work.	Cost. RUPEES IN LAKHS.
1. Transmission lines and sub-stations under Machkund Scheme.	1,282.87
2. Nandyal Thermal Scheme	11.38
3. Dendulur Firkā Scheme	10.81
4. Madanapalle Thermal Scheme	9.30
5. Tadpatri Thermal Scheme	6.55
6. Guntakal Distribution Scheme	3.42
7. Kottur Extensions,	2.30



MOYAR POWER HOUSE—VIEW TAKEN FROM THE EASTERN END LOOKING TOWARDS THE WEST—NOTE THE COMPLETED STRUCTURAL STEEL WORK FOR THE POWER HOUSE. 21ST APRIL 1951.

ADMINISTRATION REPORT OF THE

(1) *The Machkund Hydro-Electric Scheme.*—The preliminary works connected with the construction of the Jalaput dam were in progress.

Proceedings for the acquisition of land were initiated. Work on roads and construction of bridges and culverts were in various stages of progress and about 52 culverts and 13 bridges have so far been completed. Work on the second stage of the coffer dam, in diversion dam works, excavation for diversion dam, tunnel pond dam and flume, levelling winch house-site, grading haulage track and construction of pillars on the left penstock slope were in progress. The 3,100 feet pressure tunnel was completed. Construction of permanent buildings was in progress. Two additional 600 K.W. diesel generating sets were installed in the construction power house which is now applying the power requirements of construction works and colonies.

The health of the camps has much improved.

The Honourable Chief Minister and the Minister for Local Self-Government of the Government of Orissa visited the project during the year.

(2) *The Moyar Hydro-Electric Scheme.*—The Singara diversion weir, masonry portion of Maravakandy dam, Singara and Moyar flumes with all cross drainage works and the Moyar forebay with head works were completed. Tests of Singara and Moyar flumes and Moyar forebay were in progress.

Grading of penstock slope and laying of haulage track were completed. Construction of piers and anchors for the pipe lines and fabrication of pipes were nearing completion. Pipe line erection was in progress.

Erection of power house steel frame work was nearing completion and building masonry was commenced.

(3) *The Pykara Plant Extensions III stage.*—The camp buildings were completed. Excavation for foundation and masonry for the Pykara dam and wing walls were in various stages of progress. Grading for IV penstock line was completed and construction of piers and anchors taken up. Major portion of the pipes supplied by Messrs. Ferrums have been received from Poland and the contractor's engineers had also arrived at site for starting erection. Parts for converting the existing surge tank to differential surge tank had also been received at site. The fabrication of steel structures for the power house by contractors was in progress.

(4) *The Papanasam Plant Extensions.*—Improvements to the Thambra-panni dam surplus channel and protection works were completed.

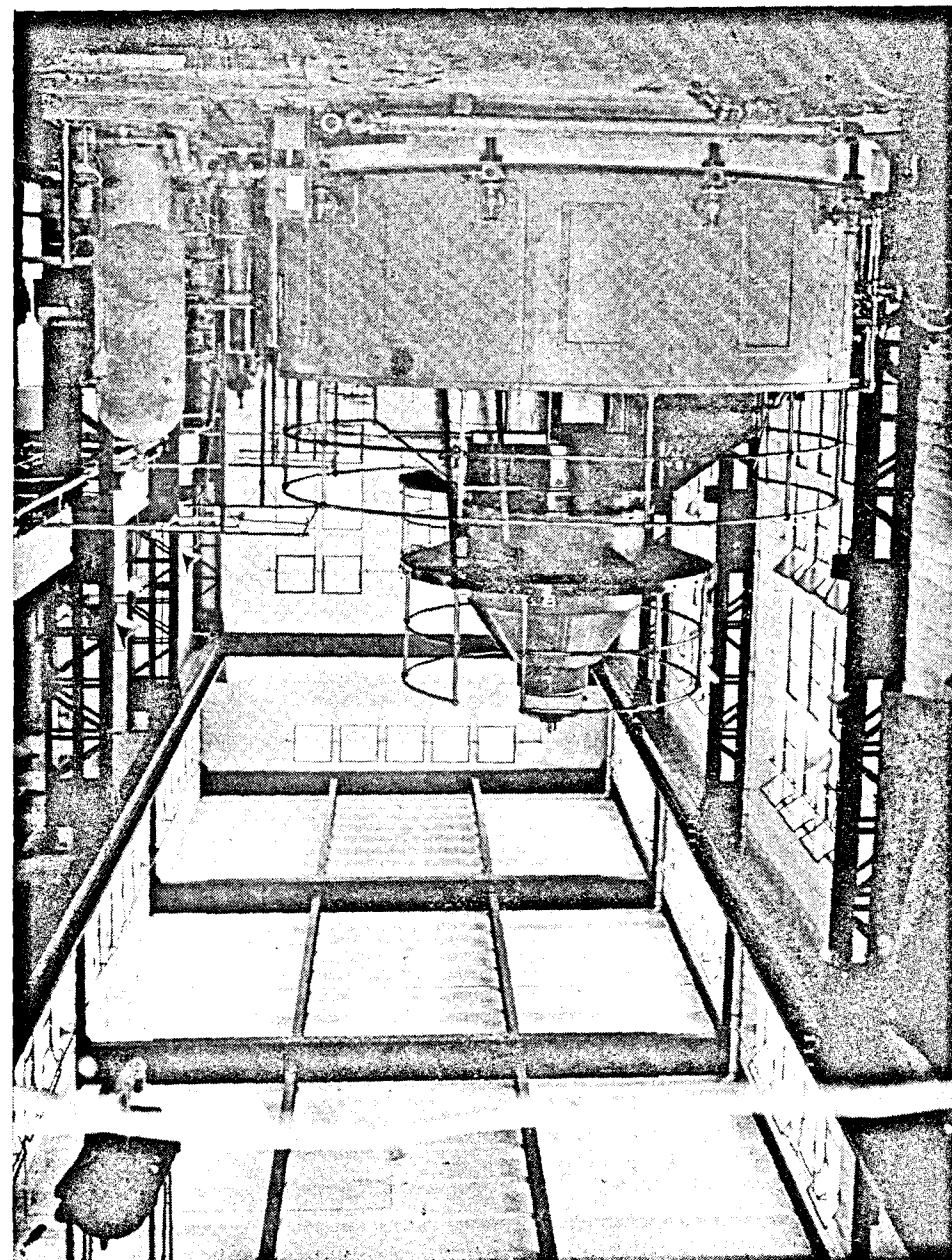
Model tests on Pykara dam and Machkund diversion dam were conducted. Tests on surplus channel model to check up water level for various flood discharges were conducted and results studied.

Erection of the generator had been completed for the IV unit at Papanasam power house and the erection of the switchgear was in progress. Turbine erection was nearing completion.

(5) *The Madurai Thermal Scheme.*—The power house building was completed in all respects. Two numbers 36,000 lb./hour boilers, one 4,000 K.W. turbo-alternator and one 5,000 K.V.A. transformer were erected and the station commissioned. Supply was inaugurated by the Honourable Minister for Public Works on 19th February 1951.

The erection of the third boiler is in progress.

(6) *The Madras-Mettur Interconnection Scheme.*—The 110 K.V. line from Snigarappet to Villivakkam and 33 K.V. line therefrom to Madras were completed last year. Construction of quarters at all sub-stations was completed this year.



VIEW OF PAPANASAM IV UNIT.

• Construction of sub-station structures, water-supply arrangements and drainage works are in progress at the Korattur sub-station. Construction of control and repair house is being taken up. Sub-station works at Kancheepuram and Singarappet were taken up.

(7) *The Erode-Tiruchirappalli-Dalmianagar Extensions.*—Survey work, excavation of foundations for towers, stub-setting and concreting were in progress. Laying of special foundations for the towers in the Cauvery and the Coleroon river-beds was commenced. Work on sub-station quarters was in progress.

(8) *The Erode-Salem Extensions.*—Erection of all but two river crossing towers has been completed. Compressor house for the air-blast circuit breakers at Erode sub-station was completed and handed over to the operation branch.

(9) *The Tanjore-Mayuram-Chidambaram Extensions.*—Construction of buildings at the Kumbakonam and Mayuram sub-stations and stubs for the entire line and tower erection were in progress.

(10) *The Madurai-Tirumangalam-Rajapalayam Extensions.*—Construction of the line and sub-station quarters at Tirumangalam was in progress. Action for acquiring land for other sub-stations was taken up.

(11) *The Kancheepuram-Chingleput-Arkonam Extensions.*—Staff quarters at Arkonam and Palur were completed. Construction of the 33 K.V. line from Kancheepuram to Arkonam was completed and that from Kancheepuram to Chingleput was in progress.

(12) *The Papanasam-Tirunelveli-Kayattar 66 K.V. line* and (13) *The Madurai-Sivaganga Extension.*—Survey work and excavation and stub-setting for towers were in various stages of progress.

(14) *Supply of power to South Kanara from Jog Scheme of the Mysore Government.*—Survey of the route of the line was in progress.

(15) *Machkund Transmission Lines.*—The contract for the construction of 289 miles of double circuit 132 K.V. line from Machkund to Vijayavada, 22 miles of 132 K.V. single circuit line from Tennuboddawara to Nellimarla and connected sub-stations had been placed last year.

The survey of the entire line was completed this year and tower schedule finalized. Contractors have completed check survey for 50 miles between Machkund and Peddapuram and the entire reach between Peddapuram and Vijayavada and stub-setting and concreting was commenced between Peddapuram and Rajahmundry.

Civil works in three sub-stations were in progress.

(16) *Vijayavada-Rajahmundry-Samalkot Extensions.*—The foundations for the Vijayavada power house extension were completed and steel and masonry superstructures were in progress. Construction of a pump house for Machines 4 and 5 was also in progress.

Sixty-two miles of the 110/66 K.V. line from Vijayavada to Rajahmundry was completed. Erection of the telephone lines by the Posts and Telegraphs department along the 110/66 K.V. line was in progress.

The construction of piers, stub-setting and concreting of the special towers for the Godavari river crossing were completed. Tower erection will be taken up shortly.

(17) *The Ceded Districts Scheme.*—The 66 K.V. line from the dam site sub-section to Bellary and sub-station inclusive of the sub-stations at Sokke, Kudligi dam site (Bellary) and Guntakkal was completed and handed over to the operation branch. The 33 K.V. line from Bellary to Adoni via Alur, the 11 K.V. line to Rayalaseema Textile Mills from Adoni, and the 11 K.V. line to Bellary Municipality and I.S.L. Factory at Hospet were also completed and handed over to the operation branch. The erection of the equipments at the 33 K.V. sub-station at Alur and Adoni was completed.

Distribution lines were laid in Guntakkal and supply effected to the town. H.T. line to Kottur was almost completed and L.T. distribution was in progress.

(18) *The Nellore Scheme.*—The erection of the two numbers 2,500 K.W. transportable sets with their associated boilers and other auxiliaries was completed and bulk supply given to the licensee from 2nd October 1950 from the new station.

The construction of 33/66 K.V. transmission line from Nellore to Gudur and 11 K.V. lines to the Mica Mines at Gudur was in progress.

(19) *The West Godavari Scheme.*—The scheme consists of running about 122 miles of 11 K.V. lines and erection of four sub-stations and 28 distributions. Work was in full progress at the end of the year.

(20) *Visakhapatnam Power House Extensions.*—Foundation work for the IV turbine, extensions to the power house building and concrete work for the V turbine have been completed. Further work on power house extensions and foundations for the VI boiler will be taken up next year.

(21) *Nandyal and Tadpatri Schemes.*—Construction of the power house buildings in both the places was in progress. The generating sets have been received and arrangements to start erection made. Supply is expected to be given by about August 1951.

(22) *Dendulur Firka Scheme.*—The 11 K.V. line from Eluru to Madinaraopalem and the 11/33 K.V. line from Bhimadole to Gundugolanu were nearing completion. L.T. distribution work was in progress.

(23) *Madanapalle Scheme.*—The scheme was sanctioned by Government in November 1950 and preliminary works such as land acquisition and survey were in progress.

(24) *Bellary-Rayadrug Extensions.*—Survey work for the 11/33 K.V. line was completed. Erection of line is expected to be taken up shortly.

(25) *The Hindupur Scheme.*—Work in the Hindupur distribution scheme was completed and Mysore supply availed from 30th June 1950.

24. *Construction programme for 1951-52.*—(1) *The Machkund Hydro-Electric Scheme.*—Balance of survey for land acquisition, excavation for masonry diversion dam, excavation for tunnel pond dam, road works, bridges and culverts, coffer dam for Jalaput dam and permanent buildings and permanent water-supply works will be completed.

Structural steel work of the power house and excavation work for Jalaput dam will be in progress.

(2) *The Moyar Hydro-Electric Scheme.*—The power house will be completed and the first unit will be commissioned in March 1952.

(3) *The Pykara Plant Extensions III Stage.*—Erection of pipes for the IV Penstock and the conversion of the existing surge tank to a differential one will be completed. Erection of steel structures in the power house will be completed and foundation work of sixth and seventh machines will be

taken up. Masonry work and excavation for foundation in the right and left flanks of the Pykara dam will be in progress.

(4) *The Papanasam Plant Extensions.*—The IV generator will be tested and commissioned in the early part of the year.

(5) *The Madurai Thermal Scheme.*—I Stage work will be completed and work on the II Stage will be in progress.

(6) *The Madras-Mettur Interconnection Scheme.*—The Korattur and Kancheepuram sub-stations will be completed including the control houses at both the places. The synchronous condensers will be erected at Korattur and the interconnection scheme brought to use.

(7) *The Erode-Tiruchirappalli-Dalmianagar Extensions.*—The 66 K.V. line from Tiruchirappalli to Dalmianagar will be completed and 110 K.V. line from Erode to Tiruchirappalli will be in progress. The sub-station buildings at the various sub-stations will be completed.

(8) *The Erode-Salem Extensions.*—The line will be completed in all respects.

(9) *The Tanjore-Mayuram-Chidambaram Extensions.*—The Tanjore-Mayuram 66 K.V. line and sub-stations at Kumbakonam and Mayuram will be completed.

(10) *The Madurai-Tirumangalam-Rajapalayam Extensions.*—The sub-station buildings at Tirumangalam will be completed and the construction of buildings at the other sub-station will be in progress. The erection of towers and stringing of the line will be completed.

(11) *The Kancheepuram-Chingleput-Arkonam Extensions.*—The Kancheepuram-Chingleput 33 K.V. line will be completed and the construction of sub-station structures at the various sub-stations will be in progress.

(12) *The Papanasam-Kayattar-Tirunelveli 66 K.V. Line and (13) The Madurai-Sivaganga Extensions.*—The erection of towers and stringing of conductors will be completed. Construction of buildings at various sub-stations will be in progress.

(14) *Supply of power to South Kanara from Jog Hydro-Electric Scheme of the Mysore Government.*—The survey work will be completed and profile and schedules will be finalized. Land acquisition proceedings for sub-stations will be in progress.

(15) *Pykara-Coimbatore-Madurai 110 K.V. line.*—Preliminary survey work will be in progress.

(16) *The Tungabhadra Hydro-Electric Scheme.*—The scheme is for development of hydro-electric power from the Tungabhadra river, on completion of the irrigation dam which is under construction near Hospet by the Public Works Department. It envisages the construction of two power houses one at the foot of the Tungabhadra dam and the other near the 15th mile of the irrigation canal near the Hampi ruins with 2-7,500 K.W. sets initially at each of the power houses and an additional unit at the canal power house in the 6th year of operation. The initial stage of the scheme is expected to be completed in about four years' time.

Preliminary survey designs and other initial work will be in progress in 1951-52.

25. *Audit Accounts and Stores.*—The periodical inspection of the accounts of the General Construction Circle by the Accountant-General was carried out in August and September 1950. The accounts of the Moyar Circle and the Machkund Circle were inspected by the Accountant-General during 10/50 and 4/50 respectively.

Out of the nine stores in General Construction Circle two were checked by the stock-verifiers during the year. The stores at Gobichettipalayam and Basin Bridge were closed and new stores were formed at Erode, Talayuthu and Srivilliputtur. There were one central stores and three sub-stores in the Moyar circle. The sub-store at Masinigudi was closed during the year. At Machkund there were one central store and two sub-stores. The annual verification of the central stores was done in 12/49. The reserve limits of stock of the stores of the General Construction, Moyar and Machkund circles were Rs. 3.0, 13.5 and 14.8 lakhs respectively.

26. *Accidents.*—There were 195 non-electrical accidents, 149 in the Machkund circle, 32 in the Moyar circle and 14 in the General Construction circle. Of these 14 were fatal. Compensation amounting to Rs. 18,700 in respect of nine cases was paid—Rs. 9,400 by non-departmental contractors and the rest by the department. The remaining five cases were under correspondence. Compensation amounting to Rs. 12,406 was paid so far in respect of the non-fatal cases.

There was only one electrical accident.

27. *Hydro-electric surveys and investigations.*—Hydro-metric and hydro-electric surveys works which were being attended to by three sub-divisions and one division under the control of the Special Officer for Hydro-Electric Surveys were transferred to the construction branch from October 1950 consequent on the abolition of the post of the Special Officer. The activities of this branch are indicated below :—

Hydro-dynamic charts.—In addition to the hydro-dynamic charts for the 53 basins mentioned in the last year's administration report, seven more charts were prepared for the following seven basins during the year under review :—

Serial number and name of basin.	Name of river.	Location.	Catchment area in square miles.
1 Kabini	Kabini river.	Malabar district	569 (up to Mysore State)
2 Papagni	Papagni river.	Chittoor, Anantapur and Cuddapah districts.	2,724.
3 Tamileru	Tamileru river.	West Godavari and Krishna districts.	489.
4 Vamsadara	Vamsadara river.	Visakhapatnam district.	2,200.
5 Nagavalli or Langullya.	Nagavalli or Langullya river.	Do.	2,035.
6 Mount	Mount river.	Malabar district.	122.
7 Bhavanisi	Tributary of Krishna.	Kurnool district.	503.

(1) *The Kundah Hydro-Electric Scheme.*—Surveys in the Upper Bhavani Varahapallam areas were completed. Tunnel and flume channel surveys were also done. For exploration work of dam site, calyx drill and earth boring equipments are awaited. Sub-surface investigation by trial pits is in progress.

(2) *Krishna-Pennar Hydro-Electric Schemes.*—Preliminary studies for development of hydro-electric power from the Krishna-Pennar irrigation projects are in progress.

(3) *The Barapole Scheme.*—No decision has been arrived at yet, between the Coorg and Madras Governments on the question of detailed investigation of this scheme.

(4) *The Periyar Hydro-Electric Scheme.*—Detailed investigation of the scheme at an estimated cost of Rs. 1.5 lakhs has been sanctioned by Government and work will be taken up shortly.

General.—Rainfall observations at 327 stations and riverflow observations at 19 stations were continued to be made during the year. Construction of measuring weirs in Kundah basin, Nilgiris and Palnis was in progress. Proposals for implementing the first 5-Year Plan for construction of 50 measuring weirs and other works at an estimated cost of Rs. 12 lakhs are under consideration.

28. *Organization.*—The Chief Construction Engineer who is in charge of this branch has under him three major construction circles. During the year, with the abolition of the post of Special Officer for Hydro-Electric Surveys, the Hydro-electric Surveys Division was also placed in the charge of the Chief Construction Engineer. A new transmission line construction circle was formed in April 1950 to take over transmission line construction work in Andhra area and placed under the control of the Chief Operation Engineer (North).

The Chief Construction Engineer attended the annual meeting of the Central Board of Irrigation at New Delhi in October 1950. The Chief Construction Engineer, Sri P. M. Chengappa, Superintending Engineer, Machkund and Sri A. Venkateswaran, Superintending Engineer, Moyar, participated in the meetings of the International Association for Hydraulic Structures Research at Bombay and the IV Congress on large dams at New Delhi.

Sri S. R. Krishnamurthi who was on leave for four months from 1st August 1950 resumed charge as Chief Construction Engineer on the expiry of the leave. Sri P. M. Chengappa who officiated during the above period as Chief Construction Engineer also held additional charge of General Construction circle as Sri G. Venkataraman, Superintending Engineer, General Construction circle was transferred temporarily to Machkund.

TECHNICAL BRANCH.

29. The technical branch consisting of five electrical and two civil divisions and dealing with the important and essential work of preparation of designs of electrical and civil works, preparation of reports and estimates for major construction works and almost all extensions, issue of specifications and tenders and award of contracts for sanctioned works, continued to be very busy during the year under review. It had to handle a large amount of correspondence with contractors both in India and outside, Director-General, India Store Department, London, India Supply Mission, United States of America, Indian Liaison Mission, Tokyo, and various departments of both the Central and State Governments.

This branch also scrutinized a large number of proposals for extension of supply relating mostly to agricultural extensions intended to augment the food resources of the State.

It continued to discharge the functions of the major purchasing agent of the department.

The civil and hydraulic divisions of this branch continued to deal with all specifications, estimates, etc., in respect of civil engineering works of the sanctioned schemes, like buildings, weirs, tunnels, etc., and scrutiny of tenders and awarding of contract connected therewith.

The following new schemes were sanctioned during the year :—

	Estimated initial cost. Rupees in lakhs.	Ultimate cost. Rupees in lakhs.
1 Tungabhadra Hydro-Electric Scheme	733.01	794.41
2 Pykara-Coimbatore-Madurai 110 K.V. Line ..	99.00	..
3 Supply of Jog power of Mysore to South Kanara	48.32	63.05
4 Singanallur and Somanallur 66 K.V. Extension.	32.13	56.91

Revised estimates were got sanctioned for the following works :—

	Revised Estimates.	
	Initial cost. Rupees in lakhs.	Ultimate cost. Rupees in lakhs.
1 Pykara III Stage Extensions	326.35 rising to	489.35
2 Erode-Salem Extension	39.18 rising to	41.98
3 Madras-Mettur inter connexion Scheme.. ..	123.94 rising to	218.00

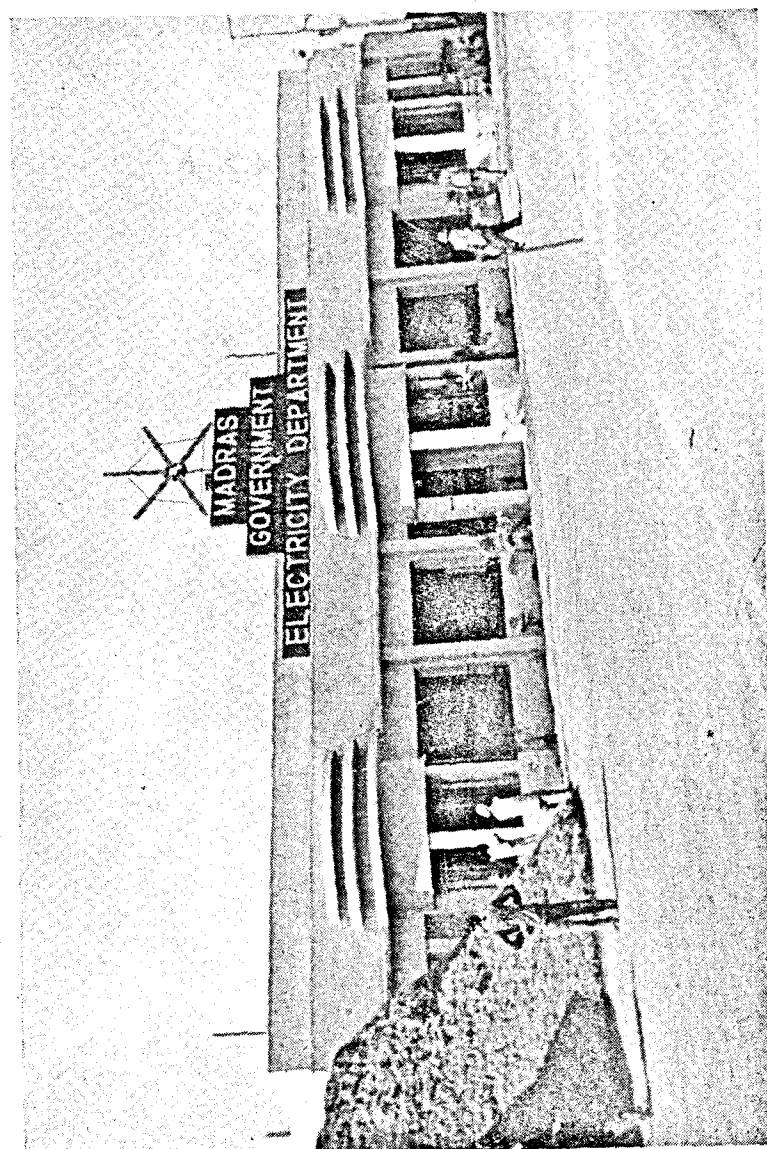
The following are the more important specifications issued during the year under review :—

- (1) South Kanara 110 K.V. lines.
- (2) Pykara-Coimbatore-Madurai 110 K.V. III circuit line.
- (3) Supply and erection of power transformers and switchgear for 66 and 33 K.V. sub-stations and synchronous condensers at Gooty under the Tungabhadra Hydro-Electric Scheme.
- (4) Supply of one 22,000 lb. per hour boiler complete with chimney and connected accessories for Visakhapatnam Power House.
- (5) Supply of 15 Nos. 200/300 K.W. diesel generating sets and 9 Nos. of 75/85 K.W. sets for the new proposed diesel stations in Andhra area.
- (6) Carrier current and the V.H.F. telephone equipment for Machkund scheme.
- (7) Machkund Hydro-Electric Scheme.
 - (a) Power-house—structural steel works.
 - (b) 100-ton electrically operated crane for power house.
- (8) Tiruchirappalli-Dalmiapuram 66 K.V. line—masonry foundation for special towers for the Cauvery-Coleroon river-crossings.

The following are some of the important tenders analysed and contracts awarded during the year :—

	RUPEES IN LAKHS.
(1) Machkund Hydro-Electric Scheme—	
(a) Steel structures in power-house building	4.81
(b) Hundred ton electrically operated crane for power house.	1.37
(2) Diesel sets for Andhra Power System	20.73
(3) Supply of 1 No. 22,000 lb. per hour boiler, etc., for Visakhapatnam Power House	4.21
(4) Madurai Thermal Scheme—	
(a) Supply of 10,000 KW. turbo-alternator, 12,500 KVA. step up transformer and switchgear	12.69
(b) Supply of 2 Nos. 55,000 lb. per hour boilers	17.54

The total value of the contracts entered into and purchase orders placed by the technical branch during the year was Rs. 208.74 lakhs.



INTERNATIONAL ENGINEERING EXHIBITION, DELHI—MADRAS ELECTRICITY DEPARTMENT STALL.

Rural electrification.—The demand for power in the rural areas continued unabated during the year. Thirty-six major extensions costing Rs. 476.64 lakhs and 171 minor extensions costing Rs. 76.34 lakhs were scrutinized and submitted for sanction. Twenty-three major extensions costing Rs. 144.538 lakhs and 110 minor extensions costing Rs. 43 lakhs were got sanctioned by Government. Proposals costing Rs. 479.66 lakhs are under scrutiny.

Diesel stations.—To improve the existing power position in the Prodattur and Narasaraopet licensees' areas which have been or proposed to be taken over by Government under the Acquisition Act, proposals for installation of additional sets were prepared and submitted for sanction.

Proposals for augmenting the generating capacity of the following thermal stations already acquired by the department were also prepared and submitted for sanction :—

- (1) Cuddapah.
- (2) Sandur.

Proposals for installation of a new thermal station at Madanapalli were submitted to Government and sanctioned by them.

General.—In order to cope up with the increased work on the civil side a new civil and hydraulic division has been formed.

This department participated in the International Engineering Exhibition held at New Delhi in January-February 1951. The departmental stall was most popular and the exhibits displayed therein won the appreciation of all visitors including the Prime Minister of India, Pandit Jawaharlal Nehru.

OPERATING SYSTEMS BRANCH.

30. *General.*—The Operation and Maintenance of the 5 operating systems comprising this branch, viz., the 3 hydro-systems in the south, Pykara, Mettur and Papanasam under the control of the Chief Operation Engineer (South) and the two thermal systems, Madras and Andhra under the control of the Chief Operation Engineer (North) were satisfactory. There was considerable increase in the revenue and power demand of the systems over the previous year.

A transmission line circle for the construction of the major transmission lines in the Andhra area was formed and placed under the charge of the Chief Operation Engineer (North).

The Nellore thermal scheme designed to meet the power demands in the Nellore area was inaugurated by the Hon'ble Sri B. Gopala Reddi, Minister for Finance, on 2nd October 1950. It has two 2,500 K.W. transportable turbo-alternator sets with oil fired boilers and necessary transformers. Bulk supply has been afforded to the Nellore licensee.

The Madurai thermal scheme intended to supplement the Papanasam hydro-system was inaugurated by the Hon'ble Sri M. Bhakthavatsalam, Minister for Public Works, on 19th February 1951. It has a 4,000 K.W. steam turbo-alternator set with connected coal fired boilers and transformers.

A number of extensions, major and minor were carried out in the various systems for electric supply mostly to agricultural and industrial loads.

The demand for power especially for agricultural purposes continued to be great but this could not be fully met due to the general shortage of generator and transformer capacity as well as paucity of line materials in all the systems.

The restrictions imposed last year in the hydro-electric systems on account of the failure of the south-west and the north-east monsoons were relaxed in June-July 1950 with the advent of the south-west monsoon. Due, however, to the failure of the north-east monsoon in the Mettur catchment again this year the water conditions became unsatisfactory and restrictions had again to be imposed from 15th February 1951 in all the hydro systems.

The Pykara power house was running continuously in parallel with Mettur and Papanasam power houses during the period April to July 1950 affording them relief. Later Pykara was run in parallel with Mettur and Madras during peak load period to enable maintenance work to be taken up at the three power houses and to afford peak load relief to Madras. During December 1950 and January 1951 Pykara was operating continuously in parallel with Mettur and Madras obtaining relief from Mettur in order to utilize irrigation discharge at Mettur to the fullest extent and conserve water at Mukurthi and coal at Madras. From February 1951 Pykara and Madras were again giving relief to the Mettur system.

Two Nos. 600 K.W. diesel sets were erected at Visakhapatnam during the year. A new 1,500 K.W. steam turboset was also commissioned in Visakhapatnam power house and this together with the diesel sets gave considerable relief to the power position in the Visakhapatnam area.

The 10 per cent war cost surcharge on all supplies in the hydro-area and the 10 per cent hydro-electric energy surcharge on all supplies excepting agricultural continued to be in force. In the Madras system in addition to the 10 per cent war costs surcharge on low-tension supplies, the 10 per cent surcharge on all low-tension industrial supplies introduced in 1948-49 was continued during the year. In the Andhra area all low-tension supplies were subject to a war costs surcharge of 20 per cent. The fuel surcharge continued to be levied on all high-tension supplies in the Andhra and Madras thermal areas.

The following licensee undertakings were taken over by the department during the year :—

- (i) Bellary (local authority electrical undertaking) on 10th May 1950.
- (ii) Hindupur (local authority electrical undertaking) on 30th June 1950.
- (iii) Prodattur (Company) on 29th December 1950.
- (iv) Alandur (local authority electrical undertaking) on 25th January 1951.
- (v) Villivakkam (local authority electrical undertaking) on 15th February 1951.
- (vi) Narasaraopet (company) on 26th February 1951.
- (vii) Hospet (local authority electrical undertaking) on 16th March 1951.

Detailed report on the activities of the several operating systems during the year are furnished below :—

PyKARA SYSTEM.

31. *General.*—This is the 18th year of operation of the system. The peak load reached was 41,450 K.W. as against 37,600 K.W. during 1949-50. The Pykara power house peak was 43,600 K.W. while giving relief to the other two hydro-systems, viz., Mettur and Papanasam.

The units generated during the year amounted to 227.80 millions as against 222.86 millions in the previous year.

The units distributed and sold were 227.80 millions against 217.29 millions in 1949-50.

The revenue of the system was Rs. 93.61 lakhs during the year under review as against 85.20 lakhs in the previous year.

The total connected load of the system was 1,27,135 K.W. as against 1,12,614 K.W. in 1949-50.

Power supply was extended to 70 villages. Eight hundred and thirty-four agricultural pumpsets with a connected load of 3,986 KW. were connected up during the year.

The runner of No. 4 turbine was replaced by a new runner at Pykara power house.

Supply to Lower Bhavani Project was effected during the year by charging the Erode Shenbagapudur section of the Pykara-Moyar-Erode 110 K.V. line at 66 K.V. and erecting a temporary 66 K.V. substation at Shenbagapudur with a 500 K.V.A. transformer.

For improving the voltage on 22 K.V. feeders, three boosters, each of 2,500 K.V.A. were erected during the year one at Iyerpadi and one at Koilpalayam (Coimbatore) and the third at Theni.

The Auto-Transformers 1 and 2 of Coimbatore were overhauled and recommissioned after changing the oil to 'B' grade. No. 1-1750 K.V.A. 66/11 K.V. transformer at Tiruppur substation was also overhauled and recommissioned during the year.

The windings of the 2,000 K.V.A. 11/22 K.V. English Electric Company transformers at Singara power house were replaced by improved type coils and the transformers recommissioned after assembly.

32. *Water conditions.*—The water condition of the system was causing anxiety towards the end of May 1950 due to the late setting in of the south-west monsoon and the power consumption cut for industrial consumers had to be increased to 75 per cent for a short period from the fourth week of May till the beginning of June when the south-west monsoon broke out.

All the restrictions excepting peak load restrictions were relaxed in June 1950 when the water position improved.

The following were the rainfall figures for the year under review and the previous year :—

	1949-50. INCHES.	1950-51. INCHES.
Mukurthi	69.18	91.92
Glen Morgan	74.91	76.79

33. *Load development.*—The growth of demand since the commencement of operation of the system is furnished in the statement below :—

Year.	Peak load in K.W.	Energy generated in millions of units.	Gross receipts. RUPEES IN LAKHS.
1933-34	3,150	10.9	4.4
1934-35	6,600	30.0	10.5
1935-36	10,100	50.3	16.3
1936-37	14,900	75.6	24.0
1937-38	17,200	82.4	27.6
1938-39	17,900	84.3 plus 16.18*	31.0
1939-40	24,900	114.7 .. 3.81*	38.5
1940-41	26,200	136.13 .. 0.67*	42.7
1941-42	28,900	156.57 .. 0.03*	49.4
1942-43	30,600	185.14 .. 2.38*	52.2
1943-44	31,000	165.74 .. 7.78*	56.6

Year.	Peak load in K.W.	Energy generated in millions of units.	Gross receipts. RUPEES IN LAKHS.
1944-45	30,300 (a)	158.59 plus 2.86*	49.7
	26,600 (b)-(1)		
1945-46	38,300 (a)	173.11 ..	53.0
	27,150 (b)		
1946-47	37,800 (a)	145.0 ..	52.6
	27,700 (b)		
1947-48	38,600 (a)	155.9 ..	57.77
	32,050 (b)		
1948-49	42,800 (a)	208.2 ..	71.78
	35,600 (b)		
1949-50	42,900 (a)	222.86 ..	85.57
	37,600 (b)		
1950-51	43,000 (a)	227.80 ..	91.90
	41,450 (b)		

* Represents units purchased from Mettur.

† Represents units purchased from Papanasam.

(a) Station peak while giving relief to other systems.

(b) Peak for the system load only.

(b)-(1) System peak 26,600 K.W. decrease due to the transfer of loads at Madurai and beyond to the Papanasam system.

34. *Financial results.*—The financial working of the system for the year under review is furnished below :—

Particulars.	Amount.
	RS.
1 Capital outlay including arrears of interest ..	5,35,52,820
2 Gross revenue	93,61,204
3 Operation and maintenance excluding suspense.	24,12,720
4 Depreciation Reserve fund	10,59,500
5 Special Reserve fund	4,23,800
6 Total expenses (3) + (4) + (5)	38,96,020
7 Net revenue (2) — (6)	54,65,184

35. *Connected load.*—The table below indicates the connected load of the system under different categories :—

Description of load.	Departmental		Municipal		Licensees.	
	Number of consumers.	Connected load in K.W.	Number of consumers.	Connected load in K.W.	Number of consumers.	Connected load in K.W.
I. High-tension—						
(a) Textiles ..	43	29,706	..	..	3	1,007
(b) Cement works ..	1	6,783	..	..	1	572
(c) Mines ..	..	..	..	..	..	..
(d) Oil and industries.	6	594	..	..	..	..
(e) Cordite factory ..	1	1,455	..	..	..	..
(f) Tea estates ..	48	5,678	..	..	..	..
(g) Licensees ..	*4	11,734	2	†	..	..
(h) Miscellaneous ..	9	1,210	1	50	1	390
(i) Municipalities ..	11	22,163	..	..	..	..
(j) Water works ..	1	129	..	..	..	..
(k) Government departments.	10	3,267	..	..	..	..
Total ..	134	82,719	3	50	5	1966

* Includes supply to a connected load of 1,042 KW to Cochin Government for supply at Chittoor.

† The 2 H.T. services relate to (1) Coonoor Municipality and (2) Wellington Cantonment Board. The connected load thereof have been included under the various L.T. classified categories.

Description of load.	Departmental.		Municipal.		Licensees.	
	Number of consumers.	Connected load in K.W.	Number of consumers.	Connected load in K.W.	Number of consumers.	Connected load in K.W.
II. Low-tension—						
(a) Industrial supply.	545	7,634	819	7,244	366	4,022
(b) Irrigation and agriculture.	6,535	28,940	287	1,267	49	58
(c) Domestic heat, power and light.	15,240	7,366	21,688	12,566	9,489	4,083
(d) Commercial heat, power and light.	2,136	233	1,161	259	1,087	393
(e) Street lighting ..	45	126	12	658	4	154
(f) Public water-works.	1	5	13	44	..	..
(g) Miscellaneous ..	2	6	10	16	..	..
(h) Railways ..	8	106	7	59	2	31
Total ..	24,512	44,416	23,997	22,113	10,997	8,723
Grand total ..	24,646	127,135	24,000	22,163	11,002	10,692

The total connected load at the end of the year was 1,27,135 K.W. against 1,12,614 K.W. during 1949-50.

36. *Power house.*—The total number of units generated purchased from other systems and distributed are furnished below :—

	MILLIONS.
1. System generation	227.80
2. From Mettur	15.53
3. From Papanasam	13.23
Total ..	256.56
1. System distribution	172.76
2. To Mettur	40.50
3. To Papanasam	9.62
Total ..	222.88

The runner of No. 4 turbine at Pykara power house was replaced by a spare runner.

In machine No. 5 two of the runner buckets broke down and they were replaced by good buckets from the released runner of No. 4 machine and the machine was recommissioned satisfactorily.

The two numbers 1,000 K.V.A. transformers in the power station were overhauled.

37. *Civil and Hydraulic works.*—The work of providing barricades and R.C. slabs to protect penstocks from boulders in the Singara slopes is in good progress.

38. *Transmission lines.*—Route lengths of the various transmission lines up to the end of the year are furnished below :—

Voltage.	Constructed during 1950-51.		Total at the end of 1950-51.	
	Single circuit.	Double circuit.	Single circuit.	Double circuit.
High tension—				
110 K.V.	53 *	20 †	53	69
66 K.V.	..	..	93	215
33 K.V.	..	..	..	..
22 K.V.	44.1	..	541.6	93.3
11 K.V.	63.2	28.6	593.3	58.6
Total	160.3	48.6	1,280.9	440.9
Low tension	209.8	..	1,684.6	..

* The total length of 53 miles represents the line from Erode to Shenbagapudur charged at present at 66 K.V. (single circuit only charged).

† A total length of 20 miles represents the Pykara-Moyar line charged in 1950-51.

Net increase in mileage during the year amounted to 208.9 miles high-tension line and 209.8 miles of low-tension line.

39. *Extra high-tension and High Tension sub-stations.*—The number and aggregate transformer capacity of extra high-tension sub-stations including the power house is furnished below :—

At the end of 1948-49—8 Nos. 140,180 K.V.A.

At the end of 1949-50—8 Nos. 140,180 K.V.A.

At the end of 1950-51—9 Nos. 140,680 K.V.A.

40. *Coimbatore Receiving station.*—The station peak was 38,050 K.W. during June 1950. The 11,22 and 66 K.V. peaks are given below :—

11 K.V. Peak—16,250 K.W. at 9 Hrs. on 23rd December 1950.

22 K.V. Peak—12,400 K.W. at 9 Hrs. on 25th November 1950.

66 K.V. Peak—22,000 K.W. at 19 Hrs. on 3rd June 1950.

Mulsifyre fire protection work has been taken up by the contractors and is in progress.

41. *Distributions.*—The number of distribution transformers erected during the year and the total aggregate capacity at the end of the year is indicated below :—

Number of new transformers erected during the year 1950-51.	Aggregate capacity of transformer in Col. (1) including increase in capacity of existing transformers.	Total number of distribution transformer in service at the end of 1950-51.	Aggregate capacity of transformers in Column 3.
91	6,525 K.V.A.	734	41,636 K.V.A.

42. *Industrial extensions.*—Two of the textile mills, viz., Messrs. The Balasubramania and Coimbatore Cotton Mills had to close their Mills for about a fortnight in February 1951 due to shortage of cotton.

There was a lock-out in Messrs. The Cambodia Mills from 8th to 12th March 1951.

Supply at high-tension was afforded to the eight consumers noted below :—

Textiles—

- (1) The Jagannatha Ginning Factory, Coimbatore.
- (2) The Kannapiran Mills, Coimbatore.
- (3) The Pollachi Bhagyalakshmi Mills, Pollachi.
- (4) Sri Devi Weavings, Coimbatore.

Other industries—

- (5) Sri Ramakrishna Industries, Coimbatore.
- (6) The Amer Hind Manufacturers, Coimbatore.

Government Departments—

- (7) The Lower Bhavani Project—Bhavanisagar.

Tea Estates—

- (8) The Chamraj Tea Estates, Nilgiris.

The high-tension supply to the Naval Aerodrome was converted into low-tension supply, the load being small.

Due to the low water conditions no new industrial connexion could be given from 1st February 1951. When water conditions improve (after June 1951) supply at high-tension will be made available to the following consumers :—

- (1) The Abbasiya Oil Mills, Dindigul.
- (2) The Agro-Industries, Sugar Factory, Podanur.
- (3) The Waverly Tea Estates, Anamalais.
- (4) The Sholur Tea Estates, Nilgiris.
- (5) The Nirmal Glass Works, Parli, Palghat.
- (6) The New Era Manufacturing Corporation-Parli Palghat.
- (7) The Kumar Industries, Parli, Palghat.
- (8) The Malabar District Co-operative Timber and Metal works,

Olavakot.

- (9) The Malampuzha Project—Malabar.
- (10) The Coimbatore College of Technology, Coimbatore.
- (11) The Vijayakumar Mills, Palni.
- (12) The Needle Industries, Nilgiris.

The following proposals for high-tension supplies were on hand :—

I. Work taken up—

- (1) New Hope Estates, Nilgiris.
- (2) Seaforth Estates, Nilgiris.
- (3) Glenvam Estates, Nilgiris.
- (4) Kodanad Estates, Nilgiris.

II. Work under investigation—

- (1) The Government Quinine Factory, Chincona, Anamalais.
- (2) Shoranur Metal Industries, Shoranur.
- (3) The Railway Junction of South Indian Railway at Shoranur.
- (4) The United Bleachers, Coimbatore.
- (5) The Ramakrishna Mills, Coimbatore.
- (6) The Central Studios, Coimbatore.
- (7) High-tension supply for agricultural purposes for Messrs. P.S.G.

and Sons, Estates at Vedapatti.

43. *Cement works.*—The Cement works continue to be the largest single consumer of the system and since July 1950 the sanctioned load of 4,000 K.V.A. is being utilized by them in full.

44. *Tea estates.*—Small additions in the connected load of Tea estates were permitted. High-tension supply was afforded to the Chamraj Tea Estates, Nilgiris, during the year.

45. *Agricultural services and Rural industries.*—In spite of the difficult water conditions no ban was imposed on agricultural connexions during the emergency period and these services are given special priority to accelerate food production. Eight hundred and thirty-four agricultural pumpsets with a connected load of 3,986 K.W. were connected up during the year. Fifty-two rural industries with a connected load of 500 K.W. were connected during the year bringing the total number of rural industries connected to the end of the year to 475 Nos. with a connected load of 6,888 K.W.

Supply was extended to 70 villages during the year—vide Appendix H.

46. *Firka Development.*—The progress in firka development schemes of the system is indicated below :—

(1) *Palladam-Tiruppur-Avanashi.*—Power supply was extended to 187 wells and 3 industrial services in the following villages in the above firka :—

- (1) Mangalam.
- (2) Mannarai.
- (3) Ramanathapuram.
- (4) Kariapudur.
- (5) Ganapathipalayam.
- (6) Pulliampatti.
- (7) Sellakarichel.

(2) *Kundah firka.*—Low-tension lines were extended to Manjaikombai and Manihatti hamlets and supply to domestic services in these hamlets and additional domestic connections in other hamlets were effected. Hamlets of Balacola of group II were also electrified during the year and 350 house service connexions were added.

Sanction of Government for electrifying Bickatty groups I and II has been received and work will be taken up shortly. The investigation work in the Kundah firka has almost been completed.

(3) *Gudalur and Pandalur firkas.*—Investigation is in progress.

47. *Meter and relay test and special maintenance.*—During the year 12,407 low-tension meters, 172 high-tension meters, 258 relays and 3,480 other equipments were tested and defects rectified.

The special maintenance subdivision tested and overhauled 138 Nos. new transformers and 315 old transformers tested 50 metering sets, repaired 8 sick transformers and reconditioned 6,930 gallons of transformer oil. In addition 30 Nos. distribution transformers were released from the field for periodical overhauls and 6,539 Nos. of oil samples were tested.

48. *Interruptions and breakdowns.*—There was no major interruption on 110 K.V. lines and there were two minor interruptions on 66 K.V. lines. There were 38 interruptions of more than three hours' duration on the 11 and 22 K.V. lines of the system. None of them were of any serious consequence.

49. *Stores, Accounts and Audit.*—There were 11 stores in the system including the Central Stores at Coimbatore. The reserve limit of stock for the system was Rs. 77 lakhs. The working of all the stores was generally satisfactory.

50. *Kollegal distribution.*—This is the third year since the Kollegal undertaking was taken over by the department. Supply position is maintained satisfactorily. 5 No. agricultural services were connected up since taking over of the undertaking. The number of consumers is 477 with a connected load of 664 K.W. Peak demand was 98 K.W. and consumption 283,680 units. Gross revenue earned was Rs. 42,452.

51. *Programme for 1951-52.*—(1) Several local authority licensee undertakings will be taken over, the most important among them being the one at Coimbatore.

(2) Erection of power transformers at Uppatti and Kuthumunda substations.

(3) Construction of Pollachi-Negamam 66 K.V. line.

(4) Construction of Calicut-Tirur-Ponnani Extensions.

(5) Erection of Singanallur and Somanur 66 K.V. substations.

(6) Construction of Uppatti-Nilambur Extensions.

(7) Completion of mulsifyre protection works at Coimbatore and at Singara Power Houses.

METTUR SYSTEM.

52. *General.*—During this, the 14th year of operation of the system, there was a substantial increase in the load on the system and all the four machines in the power-house were more or less continuously running throughout. Due to the failure of the north-east monsoon in 1949 the year started with severe imposition of restrictions and power cuts. Fortunately the south-west monsoon during the year 1950 was satisfactory but again the north-east monsoon was feeble. On account of this feeble north-east monsoon and the extended period of irrigation discharge till 12th February, the system was again faced with power shortage at the end of the year 1950-51 necessitating the imposition of a small cut in consumption of 15 per cent from 15th February 1951 found necessary even after obtaining maximum relief from the Pykara and Madras systems.

The system peak reached 41,100 K.W. as against 38,700 K.W. in 1949-50 and the station peak reached the record figure of 46,900 K.W. while giving relief to other systems.

The units generated during the year amounted to 183.1 million as against 160.39 millions in 1949-50. The revenue earned during the year was 85.97 lakhs as against 70.32 lakhs in the previous year.

Six hundred and ninety agricultural services were connected up during the year. The system connected load was 147,032 K.W. compared to 131,083 K.W. in 1949-50.

The demand for power in the system has been continuously on the increase and can only be met satisfactorily after the completion of the Moyar and Pykara extensions which are in progress.

53. *Water conditions.*—The reservoir level was 694.55 feet on 31st March 1950. The inflow into the reservoir during April 1950 and May 1950 was very poor. The inflow reached a record low figure of 14 cusecs on 25th April and 68 cusecs on 28th April. The reservoir level came down gradually to 684.00 feet on 1st June 1950 which was the lowest level reached during the year. Due to the satisfactory south-west monsoon, however, there was a rapid rise in the lake level and the F.R.L. was reached during September and was maintained for about six weeks.

The restrictions and power cuts which were imposed during the previous year on account of the acute water conditions in the hydro-systems were continued during the months of April and May 1950 and a maximum of 75 per cent cut on industrial consumers was imposed for a short period from 22nd May till 6th June 1950. All the restrictions and cuts were relaxed from 8th July 1950. On account of the failure of the north-east monsoon in 1950-51 also and due to the extended period of the Irrigation discharge up to 12th February 1951 the lake level went down and reached 735.4 feet on 12th February 1951. Though the water position was considerably better than in the previous year, yet due to the considerable increase in load, restrictions in working hours and a small cut in industrial power consumption had to be imposed once again.

54. *Mettur power house.*—The operation and maintenance of the power house was satisfactory. Mettur, Pykara and Madras systems were almost continuously running in parallel to facilitate interchange of power to the best advantage. The Mettur system was also running in parallel with the other hydro-stations and the Madras thermal station on a few occasions. During the irrigation discharge period, Mettur afforded maximum relief to Pykara and Madras systems.

Nos. 2 and 4 machines were overhauled during the year. The H.V. and L.V. windings of the first and second 2,000 K.V.A. 11/11-22 K.V. transformers were replaced in October and November 1950 by Messrs. The English Electric Company.

Materials for the mulsifyre protection in Mettur power house have been received and the contractors are expected to take up the erection work shortly.

Other substations.—Erection of B.T.H. and F & P. Airblast circuit breakers at Erode substation has been commenced by Messrs. Associated Electrical Industries (India), Limited.

66-K.V. supply to Lower Bhavani Project was given through the Moyar-Erode 110 K.V. line from Erode substation off Tiruppur No. I line. The 4 Nos. 110 K.V./66 K.V. Auto transformers ordered under Moya scheme have all been transported to Erode substation.

Arrangements to avail additional relief from Pykara via Pykara-Moyar-Erode line at Erode substation have been completed. Work on the 110 K.V. change-over is expected to be taken up shortly at Mettur power house, Erode and Singarapet substations by the contractors.

55. *Load development.*—The statement below shows the growth of load and revenue since the commencement of operation of this system.

Year.	System peak load in K.W.	Station peak in K.W.	Units generated in millions.	Gross revenue. RUPEES IN LAKHS.
1937-38	5,700	..	17.4	3.45
1938-39	7,700	..	44.0	11.93
1939-40	10,900	..	46.49	13.34
1940-41	12,300	..	60.42	18.19
1941-42	14,000	..	71.07	21.75
1942-43	15,300	23,400 *	81.45	24.00
1943-44	16,000	28,200 *	97.32	27.27
1944-45	18,915	26,120 *	104.92	30.78
1945-46	19,400	27,200 *	88.7 plus 23.68	34.39
1946-47	23,850	35,000 *	96.24 plus 17.85	39.47
1947-48	29,700	36,700 *	135.7 plus 13.81	48.14
1948-49	35,800	39,600 *	156.8 plus 27.38	62.05
1949-50	38,700	43,800 *	160.39 plus 13.84	70.32
1950-51	41,100	46,900 †	183.10 plus 9.86	83.39

* Station peak with relief to Pykara.

† Station peak with relief to Pykara and Madras.

The Dalmia Cement Company continues to be the largest single consumer of the system.

56. *Financial results.*—The financial working of the system is indicated below :—

	RS.
1. Capital outlay including arrears of interest	5,52,80,445
2. Gross revenue	85,96,988
3. Operation and maintenance excluding suspense	31,19,739
4. Depreciation Reserve Fund	9,63,848
5. Special Reserve Fund	3,85,539
6. Total expenses	44,69,126
7. Net revenue	41,27,862

57. *Connected load.*—The statement below indicates the connected load of the system under different categories :—

Description of load.	Departmental.	
	Number of consumers.	Connected load in K.W.
I. Industrial high voltage supplies—		
(a) Textiles	5	2,292
(b) Cement works. .. .	..	..
(c) Mines	2	128
(d) Oil and other industries. .. .	3	322
(e) Public waterworks and sewage pumping .. .	1	130
(f) Metals	1	448
(g) Miscellaneous	2	384
(h) Licensees	23	95,380
(i) Municipalities	6	8,713
(j) Sugar	1	451
(k) Chemicals	1	3,577
(l) Railways	4	4,232
Total ..	49	1,16,057

II. Low-tension distributions--

(a) Industrial supplies	740	7,983
(b) Irrigation and agriculture. .. .	3,981	* 15,283
(c) Domestic heat, power and light .. .	15,208	5,599
(d) Commercial heat, power and light .. .	3,217	981
(e) Public lighting	112	176
(f) Public waterworks and sewage pumping .. .	3	39
(g) Miscellaneous	8	694
(h) Railways	1	..
Total ..	23,280	30,155
Grand total ..	23,329	1,46,812

The total connected load at the end of the year was 146,812 K.W. against 131,983 K.W. in the previous year.

58. *Transmission lines.*—The table below indicates the mileage of transmission and distribution lines constructed during the year and the total mileage at the end of the year :—

Voltage.	Constructed during 1950-51.		Total at the end of 1950-51.	
	Single circuit in miles.	Double circuit in miles.	Single circuit in miles.	Double circuit in miles.
High-tension lines—				
66 KV	..	..	† 298.5	228.5
33 KV	17.11	..	244.31	..
22 KV	29.09	..	475.79	..
11 KV	61.33 plus 24.8 ‡	..	577.53	1.80
Total ..	132.33	..	1,596.13	230.30
Low-tension lines				
	174.61 plus 56.3 ‡	..	1,027.11	..

* Includes 266 agricultural services taken over from the North Arcot Distribution Licences. The connected load of these services is included in supply to distributing licences other than Municipalities.
† The reduction in length is due to the fact that 9 miles of high-tension lines were handed over to the Madras System.
‡ 24.8 miles of 11 K.V. line and 56.3 miles of low-tension lines were taken over from the Gudiyattam Licensee on 15th March 1950.

Net increase in mileage during the year amounted to 123 miles of high-tension lines and 231 miles of low-tension lines.

To improve the tail-end voltage beyond Chandragiri one 11 K.V. 1,000 K.V.A. booster was installed at this station.

59. *Extra high-tension and high-tension sub-stations.*—The number of extra high-tension and high-tension substations including the power house with aggregate transformer capacity is furnished below :—

At the end of 1947-48—25 Nos. 100,000 K.V.A.

At the end of 1948-49—26 Nos. 100,500 K.V.A.

At the end of 1949-50—26 Nos. 108,850 K.V.A.

At the end of 1950-51—27 Nos. 117,600 K.V.A.

The transformer capacities of the Tiruppattur, Vadakathipatti and Kancheepuram substations were increased on receipt of new transformers ordered for the purpose.

A 66 K.V. O.C.B. brought from Koilpatti substation was commissioned on the Moyar feeder at Erode substation.

60. *Distribution.*—Five hundred and nineteen numbers distribution transformers with an aggregate capacity of 30,218 K.V.A. were in service as against 397 numbers totalling 22,058 K.V.A. in 1949-50.

61. *Commercial activities.*—The demand for power both for industrial and agricultural purposes is very heavy in the area. The number of applications on file for supply of power is about 28,500 of which 28,000 are for agricultural purposes. Three hundred and seven schemes at an estimated cost of nearly Rs. 3.30 crores for supply to about 14,000 agricultural pumpsets were investigated during the year.

62. *Rural electrification—(a) Pumps.*—Six hundred and ninety numbers agricultural services with a connected load of 2,892 K.W. were connected up during the year against a target of 1,100 pumpsets. The main reasons for not achieving the target is due to the still unsatisfactory position of line materials and equipments. The total number of agricultural pumpsets connected up so far comes to 3,981 inclusive of 266 agricultural pumpsets taken over from the North Arcot Distributing Licensee and the total connected load 15,283 K.W. (excluding the connected load of the 266 agricultural pumpsets taken over from the North Arcot Distributing Licensee).

(b) *Rural industries.*—Sixty-nine industrial services totalling 846 K.W. were connected up during the year bringing the total number of rural industries to 687 Nos. and the connected load 9,717 K.W.

An expenditure of Rs. 25.80 lakhs was incurred on rural electrification. Supply was extended to 71 villages during the year.

63. *Firka development.*—Four remunerative firka extensions costing Rs. 1,84,000 for supply in Salai, Ikkadu and other villages in Tiruvallur firka and in Veerapandi firka, were completed and energized.

Another extension costing Rs. 2,20,000 for supply to Kondalampatti and other villages in Veerapandy firka was also completed and energized.

Works relating to extension of supply in Kalasapakkam, Kadumpuliyur and Nagari firkas are in progress.

64. *Meter relay tests and special maintenance.*—The following were the main items of work done during the year under review :—

	NOS.
(1) Single-phase meters tested and repaired ..	11,776
(2) Polyphase meters tested and repaired ..	1,895
(3) High-tension meters tested and repaired ..	155
(4) Relays tested and repaired ..	181
(5) Replacement of low-tension meters at site ..	7,038
(6) Miscellaneous tests and repairs ..	6,050

One hundred and sixty numbers insulating transformers for use in high-tension telephone system were completed and 21,000 number lead seals were manufactured.

The more important works that were carried out by the special maintenance subdivision are indicated below :—

(1) 9 numbers new boosters totalling 10,500 K.V.A. were assembled and tested.

(2) 16 numbers power transformers totalling 17,500 K.V.A. were overhauled and serviced.

(3) 3 numbers power transformers were dismantled and sealed up for transport outside the system.

(4) 11 numbers power transformers totalling 13,500 K.V.A. were transported from one place to another within the system.

(5) 1 number 750 K.V.A. transformer was repaired and serviced.

(6) 2 numbers 66-K.V. O.C.Bs. were overhauled and serviced and 1 number 66-K.V. O.C.B. was transported from Koilpatti and serviced at Erode.

(7) 131 numbers distribution transformers were assembled, dried out and serviced.

65. *Interruptions and breakdowns.*—There was no major breakdown on transmission lines during the year.

66. *Stores, Accounts, Audit and Central Office.*—The stock position in the Stores was generally satisfactory though some line materials for construction works were in short supply. The Stores Superintendent conducted the periodical inspection of the sub-stores. The annual verification of the stock of the central stores was completed and necessary action is being taken to adjust the discrepancies.

The reserve limit of stock has been raised to Rs. 92,59,000.

67. *Workshops.*—The total outturn of the workshops during the year was Rs. 24.76 lakhs excluding the production in connexion with the workshop expansion scheme, erection of machinery, repairs, etc.

Line materials and towers for almost all the line extensions for the department were fabricated at the workshop.

The tower test bed was extended and reinforced to test heavier towers up to 132 K.V. double circuit. This appears to be the only tower testing arrangement in India.

Tests on the special towers for Godavari river crossing were completed satisfactorily.

Machinery worth Rs. 2.4 lakhs were received and commissioned under the Workshop Expansion Scheme.

The total number of men employed in the workshops was 768.

Civil works mainly construction of staff quarters at many of the sub-stations and at Mettur costing about Rs. 7 lakhs were completed during the year.

Special repairs and improvements to old staff quarters was also completed.

68. *Administration.*—For the construction of the Mayuram-Chidambaram 33-K.V. line one more subdivision was added to the system.

Additional sections were formed at Panruti, Sholinghur and Kuppam for commercial-cum-construction work.

Proposals for a second commercial-cum-construction division and an additional division for the area covered by the Vellore division are awaiting sanction.

The transformer erection division formerly under Superintending Engineer, Madras System, was brought under the administrative control of the Superintending Engineer, Mettur.

69. *Programme for 1951-52.*—In addition to extensions for supply of power for industrial and agricultural services and firka development schemes, the following works are programmed to be carried out in 1951-52:—

(1) Several local authority licensee undertakings will be taken over by the department.

(2) Erection of structures, etc., equipments at Mettur power-house, Erode sub-station and Singarappet sub-station in connection with the 110 KV changeover of Mettur-Madras line.

(3) Erection of structures and equipments at Salem in connexion with the 66 KV temporary sub-station.

(4) Erection of mulsifyre protection for Mettur power-house.

(5) Erection of fourth 12,500 KVA transformer and 2 numbers 10,000 KVA reactor at Mettur-power-house.

(6) 33 KV line constuction between Mayuram and Chidambaram.

(7) Duplicating telephone line between Erode and Tiruchirappalli.

(8) Examination of the footings on transmission towers on Erode-Mettur and Erode-Tirupathur 66 KV lines for corrosion.

(9) Erection of B.T.H. and F. & P. Airblast circuit breakers at Erode sub-station.

(10) Take-off arrangements at Tanjore for the Tanjore-Mayuram 66 KV line.

(11) Erection of machinery in connexion with workshop expansion schemes.

PAPANASAM SYSTEM.

70. *General.*—This was the seventh year of operation of the system. All the three generating units at the Papanasam power-house were running satisfactorily.

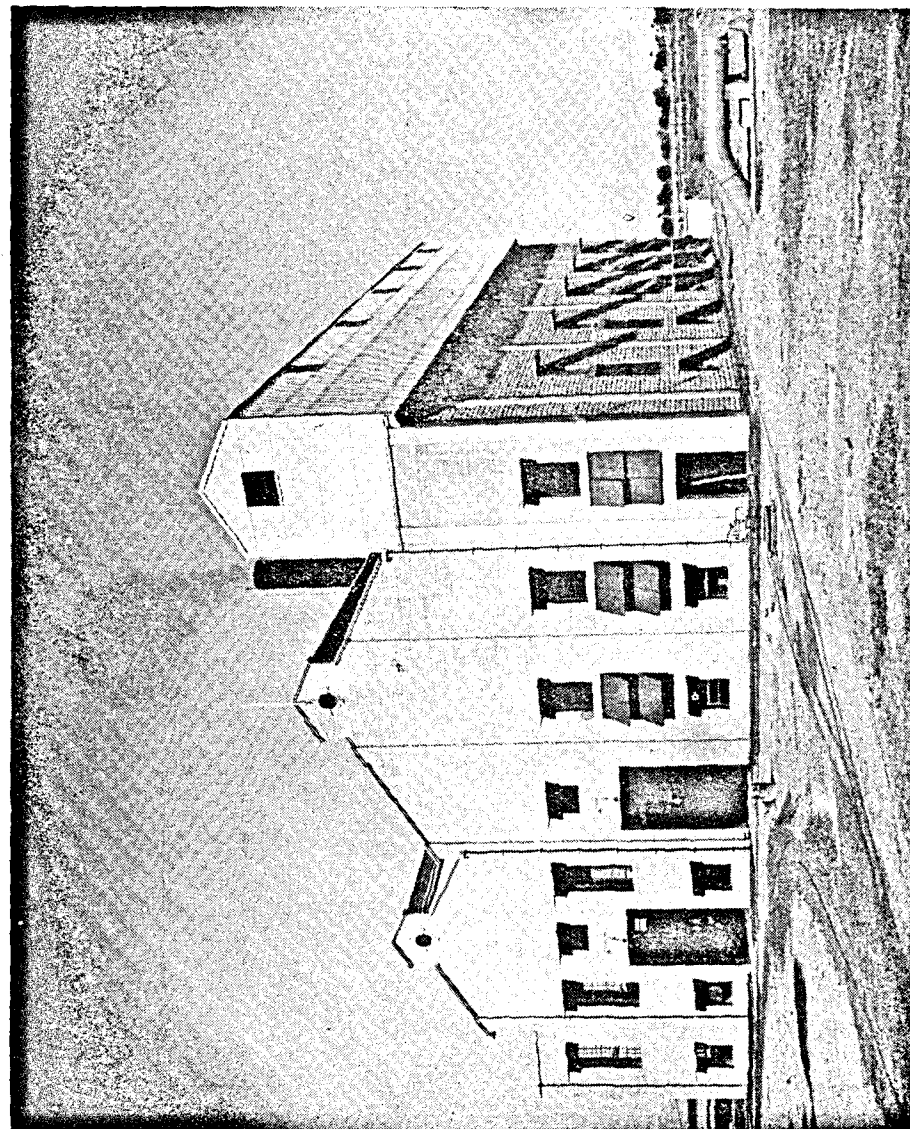
The Madurai thermal station intended to augment the generating capacity of the system was commissioned on 19th February 1951 with a 4,000 KW steam turbo set. Two 5,000 KVA transformers, one at Samayanallur and another at Pasumalai, were also commissioned in connexion with this scheme.

The fourth 7,250 KVA transformer at Papanasam power-house was erected and tested. The erection of the fourth generating set at Papanasam is in progress and is expected to be completed shortly.

The reservoir storage was very poor in April and May 1950 and the power consumption cut for industrial supplies had to be increased to 75 per cent for a short period from 22nd May to 3rd June 1950.

The cuts were completely restored in June 1950. The north-east monsoon in the Papanasam catchment was fairly satisfactory and the lake was full for eight days from 17th January 1951. However, owing to the failure of the north-east monsoon in the Mettur catchment and extended period of irrigation discharge at Mettur, the power position at Mettur again became difficult early in 1951 and as such a 15 per cent cut in consumption was enforced throughout the hydro systems from 15th February 1951.

The civil works, sanitation and anti-malarial works at the Papanasam camps were maintained in good condition.



MADURAI THERMAL STATION—EXTERNAL VIEW OF POWER STATION BUILDING SHOWING THE WEST AND THE SOUTH SIDE ELEVATIONS. 25TH APRIL 1951.

The mulsifyre protection work is almost completed at Papanasam.

H.T. supply was effected to Messrs. Madura Mills Company, Limited, Kadambur (Ginning Factory).

The peak-load of the system reached 20,500 K.W. as against 20,000 KW in 1949-50.

The number of units generated at the Papanasam power-house in the year 1950-51 as a whole was 99.27 millions against 79.84 millions in the previous year.

Both Papanasam power-house and Madurai thermal station were running in parallel throughout March 1951, the latter giving relief to the hydro systems.

The peak-load of the Madurai thermal station reached 4,000 KW and the total number of units generated at this station since commencement of operation on 19th February 1951 to end of 31st March 1951 was 1.068 million units.

The gross revenue earned during the year was Rs. 41.00 lakhs against Rs. 35.77 lakhs in 1949-50.

Forty-one villages were electrified during the year. Five hundred and nine agricultural pumpsets with a connected load of 1,480 KW were also connected up during the year. The total connected load of the system at the end of the year was 64,119 KW.

71. *Water conditions.*—The north-east monsoon was fairly satisfactory in the Papanasam area. Due to good rains, the lake was full on 17th January 1951 and was surplusing for about a week. The rainfall figures for the year under review and the previous year in the catchment areas are given below :—

	1949-50. INCHES.	1950-51. INCHES.
Papanasam camp	35.30	40.19
Papanasam Dam camp	66.19	61.58

72. *Power-house, dam and civil works.*—The machines in the power-house were maintained satisfactorily. The system demand reached 20,500 KW in 3/51 and was met by Papanasam power-house with a station capacity of 21,000 KW together with the Madurai thermal station.

The surplus level at the diversion weir was raised to 638.83 feet by flash board arrangement from December 1950 to facilitate impounding of the Servalar inflows.

The Madurai thermal station was commissioned on 19th February 1951 with one 4,000 KW steam turbo-set. Due to some troubles in the cooling water system, the station did not go into full operation in February 1951. The defect was rectified and the power-house commenced its full output from 17th March 1951.

The three hydro-electric systems were running in parallel continuously in July 1950 to take advantage of the irrigation discharges at Mettur and Papanasam. From January 1951, Papanasam system was giving relief to Pykara system.

A total shut-down of the power-house was arranged on 18th November 1950 to enable the connecting up of cooling water main to the fourth generator cooling water system and during this period all the system loads were supplied by the Pykara System.

Heavy duty valves were installed on the 4-inch pressure water-pipe leading to relief valves of machines 1 and 2. Totally enclosed motors were installed with some modification to oil pipes in place of the old screen type A.C. and D.C. motors of the turbine bearing oil pumps of machines 1 and 2 to avoid possible damage from water splashing due to leaks from turbine and control gear.

The 4th 7,250 KV transformer was erected at the power-house and tested.

73. *The Madurai Thermal Station.*—The station was inaugurated by the Hon. Minister for Public Works on 19th February 1951. The following equipments were brought into operation from 19th February 1951:—

(1) One number Messrs. Parsons 4,000 KW steam turbo set with its auxiliaries.

(2) Two numbers Babcock and Wilcox water tube boiler C.T.M. type of capacity 36,000 lb./hour each.

(3) One number 5,000 KVA 6.6 KV/33 KV power transformer.

(4) 6.6 KV H.T. switchgear and 400 volts switchgear.

(5) Two numbers 400 KVA station transformers.

74. *Pasumalai sub-station.*—The equipments at the Pasumalai sub-station were maintained in good condition during the year and one number 5,000 KVA 33/11 KV power transformer was erected at the sub-station to step down the supply from the Madurai thermal station. The 66 KV bushing on transformer No. 5 got damaged on 22nd August 1950 due to lightning and was replaced by a spare one. Mulsifyre fire protection work is in progress at the sub-station.

75. *Load development.*—The growth of load in the system continued during the year. H.T. supply was afforded to the ginning factory of Messrs. Madura Mills Company, Limited, at Kadambur. Temporary supply to Balaramavarma Textiles in Travancore-Cochin State was afforded through the Shencottah licensee.

The growth of load and revenue since the commencement of operation is indicated in the table below:—

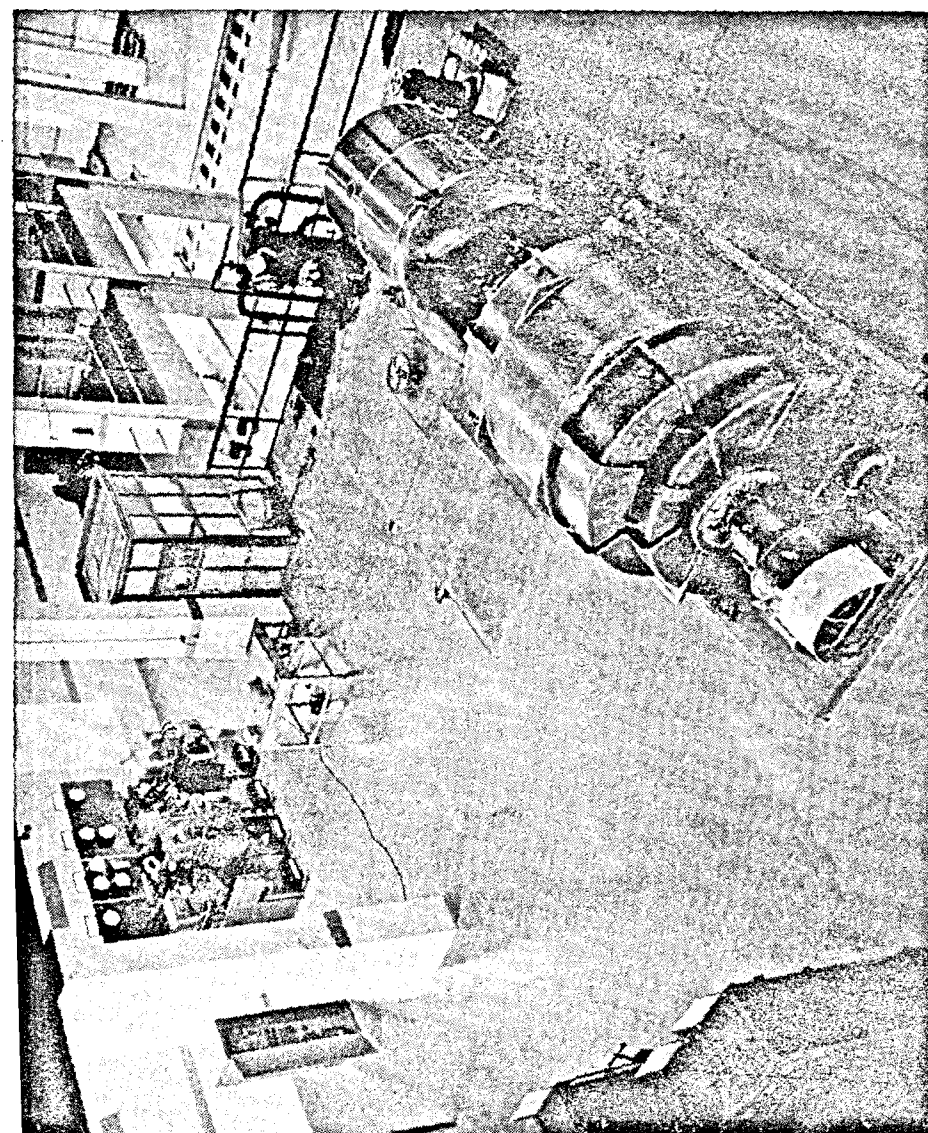
Year.	Peak load.	Units generated	Gross revenue.
	K.W.	in millions. K.W.H.	RUPEES IN LAKHS.
1944-45	8,700	21.265 plus 21.979	12.09
1945-46	9,800	47.212 plus 7.78 *	17.00
1946-47	14,000	52.62 plus 5.49 *	19.50
1947-48	15,000	64.62 plus 2.52 *	23.40
1948-49	18,500	71.768 plus 17.045 *	29.15
1949-50	20,000	79.84 plus 16.64 *	35.77
1950-51	20,500	99.27 plus 8.40 *	40.85
		plus 1.07 †	

76. *Financial results.*—The financial working of the system during the year under review is furnished below:—

	RS.
Capital Outlay including arrears of interest	4,18,59,570
Gross revenue	40,99,902
Operation and maintenance excluding suspenses	12,21,766
Depreciation Reserve Fund	5,05,027
Special Reserve Fund	2,02,011
Total expenses	19,28,804
Net revenue	21,71,098

* Represents units purchased from Pykara.

† Represents units generated by the Madurai thermal station.



Heavy duty valves were installed on the 4-inch pressure water-pipe leading to relief valves of machines 1 and 2. Totally enclosed motors were installed with some modification to oil pipes in place of the old screen type A.C. and D.C. motors of the turbine bearing oil pumps of machines 1 and 2 to avoid possible damage from water splashing due to leaks from turbine and control gear.

The 4th 7,250 KV transformer was erected at the power-house and tested.

73. *The Madurai Thermal Station.*—The station was inaugurated by the Hon. Minister for Public Works on 19th February 1951. The following equipments were brought into operation from 19th February 1951:—

(1) One number Messrs. Parsons 4,000 KW steam turbo set with its auxiliaries.

(2) Two numbers Babcock and Wilcox water tube boiler C.T.M. type of capacity 36,000 lb./hour each.

(3) One number 5,000 KVA 6.6 KV/33 KV power transformer.

(4) 6.6 KV H.T. switchgear and 400 volts switchgear.

(5) Two numbers 400 KVA station transformers.

74. *Pasumalai sub-station.*—The equipments at the Pasumalai sub-station were maintained in good condition during the year and one number 5,000 KVA 33/11 KV power transformer was erected at the sub-station to step down the supply from the Madurai thermal station. The 66 KV bushing on transformer No. 5 got damaged on 22nd August 1950 due to lightning and was replaced by a spare one. Mulsifyre fire protection work is in progress at the sub-station.

75. *Load development.*—The growth of load in the system continued during the year. H.T. supply was afforded to the ginning factory of Messrs. Madura Mills Company, Limited, at Kadambur. Temporary supply to Balaramavarma Textiles in Travancore-Cochin State was afforded through the Shencottah licensee.

The growth of load and revenue since the commencement of operation is indicated in the table below:—

Year.	Peak load. K.W.	Units generated in millions. K.W.H.	Gross revenue. RUPEES IN LAKHS.
1944-45	8,700	21.265 plus 21.979	12.09
1945-46	9,800	47.212 plus 7.78 *	17.00
1946-47	14,000	52.62 plus 5.49 *	19.50
1947-48	15,000	64.62 plus 2.52 *	23.40
1948-49	18,500	71.768 plus 17.045 *	29.15
1949-50	20,000	79.84 plus 16.64 *	35.77
1950-51	20,500	99.27 plus 8.40 *	40.85
		plus 1.07 †	

76. *Financial results.*—The financial working of the system during the year under review is furnished below:—

	RS.
Capital Outlay including arrears of interest	4,18 59,570
Gross revenue	40.99,902
Operation and maintenance excluding suspenses	12,21,766
Depreciation Reserve Fund	5,05,027
Special Reserve Fund	2,02,011
Total expenses	19,28,804
Net revenue	21,71,098

* Represents units purchased from Pykara.

† Represents units generated by the Madurai thermal station.

77. *Connected load.*—The connected load of the system under different categories is given below:—

Description of load. (1)	Departmental.		Municipal.		Licensees.	
	Number of consumers. (2)	Connected load in K.W. (3)	Number of consumers. (4)	Connected load in K.W. (5)	Number of consumers. (6)	Connected load in K.W. (7)
I. Industrial H.T. supplies—						
(a) Textiles	13	7,170	..	..	..	..
(b) Cement works	1	2,808	..	..	..	..
(c) Mines	..	..	..	..	..	..
(d) Oil and industries	8	660	..	..	..	..
(e) Cordite Factory	..	..	..	..	..	..
(f) Tea estates	..	..	..	..	..	..
(g) Miscellaneous	7	26,655 *	10	110	..	..
(h) Licensees	3	11,289	..	..	..	..
(i) Municipalities	1	60	..	..	..	..
(j) Waterworks	..	..	..	..	..	..
Total ..	33	48,642	10	110	..	..
II. L.T. distributions—						
(a) Industrial supplies	404	3,665	348	2,705	609	7,429
(b) Irrigation and agriculture	1,124	3,581	45	155	185	680
(c) Domestic (heat, power and light)	16,152	8,029	13,369	7,823	17,210	8,252
(d) Commercial (heat, power and light)	..	..	..	..	1,324	266
(e) Public lighting	51	202	3	496	11	300
(f) Public water works and sewage pumping	..	..	..	..	1	4
(g) Miscellaneous	..	..	..	..	22	6,337
(h) Railways	..	..	..	..	5	37
Total ..	17,731	15,477	13,765	11,179	19,367	23,305
Grand Total ..	17,764	64,119	13,775	11,289	19,367	23,305

* Includes supply to a connected load of 3,350 K.W. to the Union Government of Travancore and Cochin.

The total connected load of the system at the end of the year was 64,119 KW against 59,111 KW at the end of 1949-50.

78. *Transmission lines.*—The statement below gives the total length of transmission and distribution lines in the Papanasam system:—

Voltage.	Constructed during 1950-51.		Total at end of 1950-51.	
	Single circuit lines in miles.	Double circuit lines in miles.	Single circuit lines in miles.	Double circuit lines in miles.
High tension lines—				
66 K.V. lines	..	..	48.1	125.4
33 K.V. lines	..	..	28.0	..
22 K.V. lines	..	..	42.9	..
11 K.V. lines	52.69	..	319.05	9.9
6.6 K.V. lines	16.95 *	..	16.95 *	..
3.3 K.V. lines	3.5 *	..	3.5 *	..
Total ..	73.14	..	458.4	135.3
L.T. lines ..	90.33	..	409.26	..

* The 6.6 K.V. and 3.3 K.V. lines were taken over from the Okkur and Nelkuppai licensees.

Net increase in mileage during the year amounted to about 73 miles of H.T. lines and 90 miles of L.T. lines.

79. *Extra High Tension and High Tension sub-stations.*—The number of Extra High Tension and High Tension sub-stations including the power-house with aggregate transformer capacity is as follows :—

At the end of 1948-49 ..	..	10 stations ..	..	51,000 KVA.
At the end of 1949-50 ..	..	12 stations ..	..	55,475 KVA.
At the end of 1950-51 ..	..	13 stations ..	..	72,725 KVA.

80. *Distributions.*—Forty-four numbers distribution transformers with in aggregate capacity of 3,150.5 KVA were erected during the year bringing the total number of distribution transformers to 211 and the aggregate capacity to 11,613 KVA.

81. *Industrial extensions.*—Extension of supply to Kadambur Ginning Factory of Messrs. Madurai Mills Company, Ltd., and other villages en-route, Ellayarasannandal, Dhevarkulam, Madakulam, Achampatti, Erukkudi villages was completed and supply given.

82. *Commercial activity.*—There is a great demand for power in the area. Power plant deficiency and shortage of line materials were hampering progress.

83. *Agricultural services.*—Five hundred and nine agricultural pumpsets with a connected load of 1,480 KW were connected during the year under review, bringing the total number of pumpsets connected at the end of the year to 1,124 with a connected load of 3,581 KW against 615 at the end of the previous year with a connected load of 2,101 KW.

84. *Rural industries.*—Forty-one villages and 104 rural industrial services were connected up during the year bringing the total number of industrial services to 394 numbers at the end of the year.

85. *Firka development.*—The progress on the three firka development schemes of this system is indicated below :—

(1) *Tirumangalam firka.*—Supply to 14 villages in this firka has been effected. Work on Kunnathur-Kallupatti-Periyalur extension is in progress. A scheme costing Rs. 1.32 lakhs for supply to Lalapuram is awaiting sanction.

(2) *Pazhamcottai firka.*—Proposals for 8 schemes covering 16 villages and costing Rs. 16.5 lakhs have been submitted and are awaiting sanction.

(3) *Malli firka.*—Five distributions were energised and 100 pumpsets were connected up in this area. Schemes costing about Rs. 1.0 lakh for supply to Tadangani-Mangaseri and Nochikulam are in progress. A major proposal costing Rs. 4.04 lakhs for supply to the northern half of the firka is awaiting sanction.

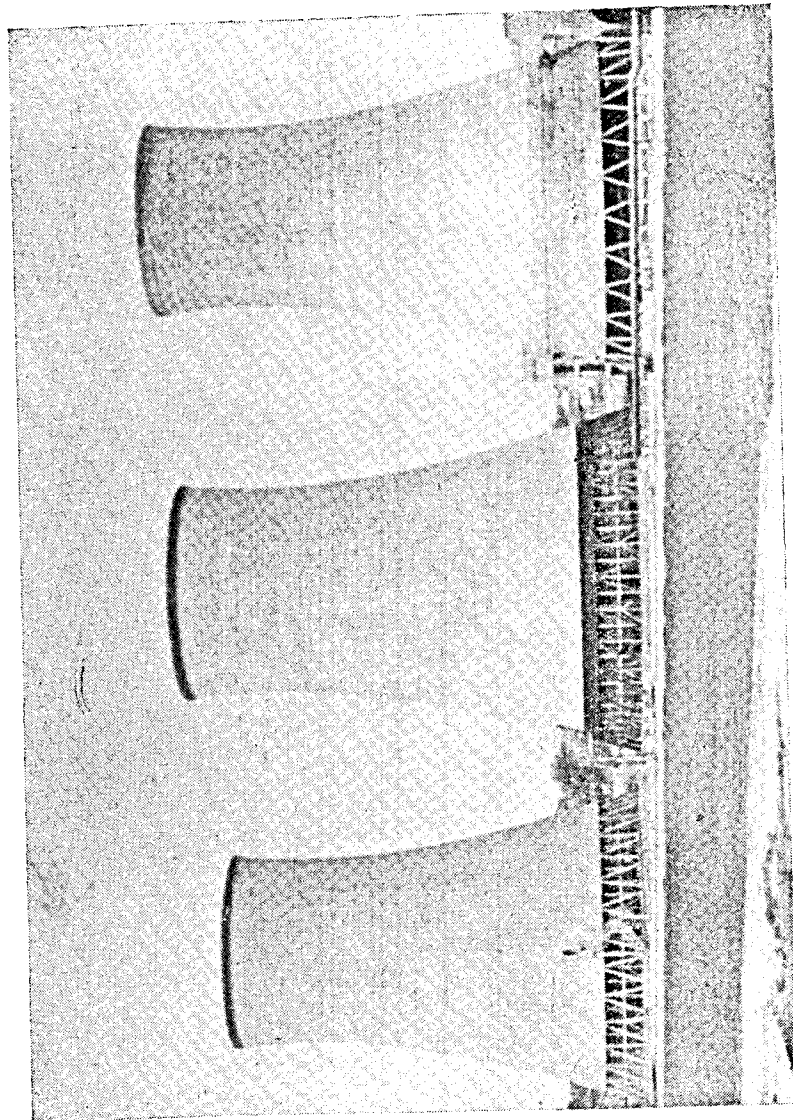
86. *Meter and Relay Tests and Special maintenance.*—Seventy-four H.T. meters and 4,997 meters were tested, in addition, the periodical overhaul of 2 Nos. 66 KV/22-11 KV power transformers and 98 distribution transformers was carried out.

Precommissioning tests on equipments at Madurai thermal station and Pasumalai were carried out.

87. *Interruptions.*—There was no major breakdown or interruption to supply during the year.

88. *Audit, Accounts and Stores.*—The nine stores of the system continued to be in active operation. The reserve limit for stock has been increased from Rs. 23 lakhs to Rs. 33 lakhs.

The accounts of the system were test audited by the staff of the Accountant-General from 12th to 25th August 1950. The general state of accounts has been certified as satisfactory.



GENERAL VIEW OF THE NATURAL DRAUGHT COOLING TOWERS.
MADRAS SYSTEM.

89. Programme for 1951-52—

- (1) Commissioning of 4th unit at Papanasam power house.
- (2) A number of local authority licensee undertakings will be taken over, the principal among them being the one at Madurai.
- (3) Erection of 3rd 250 KVA transformer at Tenkasi.
- (4) Erection of 1,000 KVA 11 KV booster regulator at Viravanallur.
- (5) Replacement of windings of the two numbers 2,000 KVA transformer at power house.
- (6) Completion of Kadayannallur and Sankarankoil extensions.
- (7) Construction of 11 KV line to Avalnatham in Koilpatti taluk.
- (8) Extension of supply to Kilarajakularaman and Achamdavilthan in Malli firka.
- (9) Extension of supply to Melakottai and Nadukkottai, Tirumangalam firka.
- (10) Extension of supply to Mandapam from Ramanathapuram (Contract awarded to Messrs. South Madras Electric Supply Corporation, Ltd.).

MADRAS SYSTEM.

90. *General.*—The system completed its third year of operation as a Government-owned undertaking on 29th August 1950. The operation and maintenance of the thermal station with the connected sub-stations and distributions was satisfactory.

Negotiations with the Madras Electric Supply Corporation regarding the purchase price of the undertaking were completed during the year with the acceptance of a value of Rs. 215 lakhs by the Corporation for all the assets. The balance of amount was also paid to the Company on their executing the conveyance deed. The question of payment for the portion of service connections paid for by the consumers is to be settled by arbitration.

The 'C' station consisting of the two transportable generating sets and the Villivakkam emergency station were running satisfactorily and were augmenting the generating capacity of 'A' station to the extent of 4,700 KW. and 1,400 KW., respectively.

The coal supply position was generally satisfactory throughout the year.

In view of the adverse water conditions at Mettur this system gave relief to Mettur system from 9th March 1950 to end of June 1950. With the commencement of irrigation discharge at Mettur relief was obtained by this system from Mettur from August 1950 till about the end of December 1950. In view of the recurrence of adverse water conditions due to failure of North-East monsoon at Mettur, relief to Mettur from Madras commenced in January 1951 and is being continued at the end of the year.

The peak load restrictions which were imposed on the Buckingham and Carnatic Mills and all low tension industrial loads due to the system peak having gone beyond the safe limit, had to be continued during the year.

The peak load of the system reached 27,800 KW. as against 24,700 KW. in 1949-50.

The total number of units generated in the three power stations of the system was 120.79 millions as against 108.00 millions in the previous year.

Six hundred and thirty-eight major and minor extensions (66 major and 572 minor) were carried out during the year and an expenditure of Rs. 27.50 lakhs incurred thereon.

A new rectifier station with 2×250 KW. rectifier banks was erected and commissioned at West Cott Road to relieve the overload on the Mount Road sub-station and to improve the voltage regulations on the D.C. feeders in the area.

Four thousand and forty-four new services were connected up during the year.

The gross revenue for the year was Rs. 116.13 lakhs against Rs. 94.03 lakhs in the previous year.

The feasibility of bringing sea water to the power house for the cooling system was investigated and a report is under finalization.

91. *Load development.*—The growth of load in the system was rapid. The table below shows the growth of load and revenue since the undertaking was taken over by Government on 29th August 1947.

Year.	Peak load.	Units generated in millions.	Gross revenue.
			RS.
			IN LAKHS.
1947-48	21,900	* 54.95	40.75 *
1948-49	25,400 †	102.07	80.04
1949-50	24,700 *	108.0	94.03
1950-51	27,800	120.79	116.02

* The figures pertain only to the period 29th August 1947 to 31st March 1948.

† Reduction in peak due to peak load restrictions.

92. *Financial results.*—The financial results of the undertaking up to 31st March 1951 are given below. This takes into consideration the payment of the balance due to Messrs. Madras Electric Supply Corporation in March 1951.

	RS.
Total capital outlay	3,36,95,808
Gross revenue	1,16,13,215
Operation and maintenance	74,30,497
Depreciation reserve	11,49,809
Special reserve	1,91,951
Total expenses	87,72,257
Net revenue	28,40,958

93. *Connected load and number of consumers.*—The number of consumers served by this system at the end of 1950-51 including the two panchayat board undertakings of Alandur and Villivakkam taken over by Government, in January and February 1951, respectively, was 34,460 as against 29,647 in the previous year. The total connected load of the system at the end of the year was 94,475 KW, as against 87,935 KW. in 1949-50.

The classified list of consumers with connected load at the end of the year is furnished in the statement below:—

Serial number and details.	Total to end of 31st March 1951.	
	Number of consumers.	Total load in K.W.
(1)	(2)	(3)
I. Industrial and high voltage supplies—		
(a) Textiles	1	8,792
(b) Cement works	..	..
(c) Mines	..	..
(d) Oil industries	18	4,466
(e) Cordite factory	..	..
(f) Tea estates	..	..
(g) Miscellaneous	22	8,392
(h) Licensees	2	1,448
(i) Municipal	..	..
(j) Water works	2	1,047
(k) Traction	2	..
(l) Railway	1	20,322
(m) Street lighting	1	721
.. .. . Total	49	45,188
II. Low tension distribution—		
(a) Industrial	2,170	11,700
(b) Irrigation and agricultural	219	882
(c) Domestic (heat, power and lighting)	36,219	33,586
(d) Commercial (heat, power and lighting)	5,255	..
(e) Public lighting	11	69
(f) Public water works and sewage pumping	..	..
(g) Miscellaneous	537	3,050
(h) Railways	..	..
.. .. . Total	34,411	49,287
Grand Total of I and II	34,460	94,475 K.W.

94. *Power House.*—The total installed generator capacity and boiler capacity of the system comprising all the three stations continued to be same as in the previous year, viz., 48,000 KW. and 426,000 lb./hour, respectively.

The supply position of coal during the year was generally satisfactory. There was no major breakdown and the operation and maintenance of the Power House was satisfactory. Routine maintenance of boilers, turbo-sets, transformers and other connected equipments were carried out as per schedule. Taking advantage of the relief from Mettur during August-December 1950, the following special overhauls were carried out:—

- 'C' Station north and south sets including boilers and turbo-sets.
- 'A' Station No. 8 and six boilers.
- The overhaul of boilers and turbo-sets at Villivakkam (which is nearing completion).

The forced draught cooling tower No. 2 was reconstructed and put into commission in April 1950.

The second 7,500 KVA 5 KV/11 KV transformer and the second 10,000 KVA 11 KV/33 KV transformer were erected on temporary plinths at Basin Bridge step-up station in connection with the interchange of power between Mettur and Madras.

The two 5 KV reactors ordered for the 'B' Station extensions were temporarily connected to the 12.5 M.W. and 15 M.W. sets before the 5 KV Bus in order to enable safe parallel working of the system with the Mettur system.

95. *Transmission Lines, sub-stations and distributions.*—A portion of the Kancheepuram-Korattur 66/110 KV line at the Korattur end (about 7.7 * miles) was taken over by this system for maintenance from the Mettur system. The statement below gives the total mileage of transmission and distribution lines connected during the year and at the end of the year.

Serial number and particulars of lines.	Constructed during the 12 months up to 31st March 1951 (miles).	Total at the end of period 31st March 1951 (miles).
(1)	(2)	(3)
1. 66 K.V. lines— Overhead	7.7 *	7.7
2. 33 KV. lines— Overhead (Underground)	8.4 ..	53.1 2.0
3. 11 K.V. lines— Overhead (Underground)	8.8 1.5	21.5 2.4
4. 5 K.V. lines— Overhead (Underground)	0.6 1.5	10.7 115.1
Total for H.T. lines ..	28.5	212.5
5. L.T. lines— Overhead (Underground)	76.8 25.5	251.3 208.1
Total for L.T. lines ..	102.3	459.4

* The 7.7 miles represent the portion of the Kancheepuram-Korattur line transferred from Mettur to Madras System.

Net increase in mileage during the year amounted to 28.5 miles of high-tension lines and 102.3 miles of low-tension lines.

The statement below gives the number of sub-stations of various voltages and their capacities at the end of 31st March 1951.

Serial number and particulars of sub-stations.	At the end of 1949-50.		At the end of 1950-51.	
	Number.	Capacity.	Number.	Capacity.
(1)	(2)	(3)	(4)	(5)
1. 66 K.V. Sub-stations	1	7,500 K.V.A.	1	7,500 K.V.A.
2. 33 K.V. Sub-stations including Kilpauk and Basin Bridge Step-up stations.	8	11,650 "	10	20,350 "
3. Rotary converter stations	6	13,500 K.W.	6	13,500 K.W.
4. Rectifier Stations	4	2,700 "	5	3,250 "
5. Distribution transformer station including static stations and 33 KV/400 V sub-stations.	89	8,950 KVA	117	13,949 KVA
Total ..	108	44,350 KVA	139	58,599 KVA

All the 66 KV, 33 KV sub-stations and rotary and rectifier stations were maintained in good condition.

Two banks of rectifiers of 250 KW. each were erected at the West Cott Road sub-station and brought into beneficial use on 23rd June 1950.

Two new 33/11 KV sub-stations each with a 500 KVA transformer were erected, one at Porur and another at Nazarathpet (near Poonamallee) for catering to the loads in rural areas around.

96. *Extensions.*—The following indicates the number of extensions sanctioned during the year:—

	Number.	Cost. RS. IN LAKHS.
Estimates sanctioned by the S.E. Madras Electricity System	457	14.43
Estimates sanctioned by the C.O.E. (North), C.E.E. and Government	81	33.91

The more important of these were:—

- (1) H.T. supply to 'Madras Mail'.
- (2) Nazarathpet extensions.
- (3) Supply to Standard Motor Works, Chromepet.
- (4) H.T. supply to 'Crompton's Workshop'.
- (5) Thiruvannmiyur extensions.
- (6) H.T. supply to Corporation Cold storage.
- (7) Gandhinagar Extensions, Adyar.
- (8) H.T. supply to 'Addison's Paint Factory, Sembium'.
- (9) Malayambakkam extensions.
- (10) Porur-Karambakkam extensions.

Several important improvement works sanctioned during the year were in progress.

97. *Commercial activities.*—The demand for power, especially for domestic services continued to be heavy. On an average about 430 applications for new services were received, of which 300 were for domestic purposes. All arrears of domestic supply applications have been cleared, and it can be said now, that this system is keeping pace with the demand for domestic connections. Voluntary changeover from D.C. to A.C. is being continued. Four thousand, eight hundred and thirteen services (inclusive of 763 services taken over from the various panchayats acquired) were added on to the system during the year. Of these 4,385 (inclusive of 736 taken over from panchayats) were for domestic purposes, 136 (inclusive of 3 taken over from panchayats) were for agricultural purposes and 292 (inclusive of 30 taken over from panchayats) were for industrial purposes.

A proposal for remodelling the city distribution on modern lines with a view to use to the best advantage the extra power that will be available consequent on the commissioning of the new 15,000 KW. set under Madras Plant extensions has been finalized.

Investigation for extension of supply to Thinnanur, Ponneri, Minjur and other villages near Madras were in progress.

98. *Agricultural services.*—One hundred and thirty-three agricultural pumpsets with a connected load of 543 KW. were connected up during the year bringing the total number to 219 (including three numbers taken over from Alandur and Villivakkam) and the connected load to 882 KW.

The department was ready to effect supply in respect of 40 more services but the consumers were not ready to avail supply. A target of 150 pumpsets has been fixed for the year 1951-52.

Supply of power was extended to 19 villages during the year under review.

99. *Stores, Audit and Accounts.*—During the year as a part of the mechanization of accounting work, national cash register machines were installed in a few of the pay offices.

The mechanization of revenue billing was sanctioned by Government and contracts were placed with the British tabulating machine company for supply of the machinery.

The company system of consumers' ledger was re-introduced with the concurrence of the Accountant-General.

The staff of the Accountant-General's office test audited the accounts of the system during December 1950.

The physical verification of stores was conducted by the stock verifiers and their remarks were under examination.

100. *Madras Plant extensions.*—The progress in the construction of the 'B' station was satisfactory except for the delay in the fabrication of steel for the framework of the power station by the contractors Messrs. Richardson and Cruddas consequent on which the date of commissioning the first boiler which was expected to materialize in the third quarter of 1951 has been postponed to the end of first quarter of 1952.

Erection of No. 2 natural draught cooling tower was completed and the erection of No. 3 was in progress.

The erection of steel frame structure of the main 'B' station buildings was in progress. The frame work of No. 3 and No. 4 boilers was completed and the boiler drum of No. 4 boiler hoisted in position.

The foundation for coal conveyor Nos. 3 and 4 and junction towers was completed.

The steel work of the turbo-alternator block was laid, aligned and was being concreted.

The 15,000 KW. turbo-set, the manufacture of which was completed in United Kingdom, has been asked to be shipped immediately to Madras.

A 15,000 gallon oil tank has been erected for storage of oil of the 'C' station.

101. *Programme for 1951-52—I. 'B' Station extensions:—*

(1) Erection of two of the 80,000 lb/hour boilers, coal handling plant and pipe work.

(2) Erection of the 15,000 KW. turbo-set.

(3) Erection of the circulating water pump cooling tower pumps and circulating water mains.

(4) Completion of the balance of work of No. 3 natural draught cooling tower (now 80 per cent completed).

(5) Repairs to existing natural draught tower No. 1.

(6) Erection of the new 11 KV, 5 KV, and L.T. switch gear and transformers and connected cabling work.

II. *Distribution system:—*

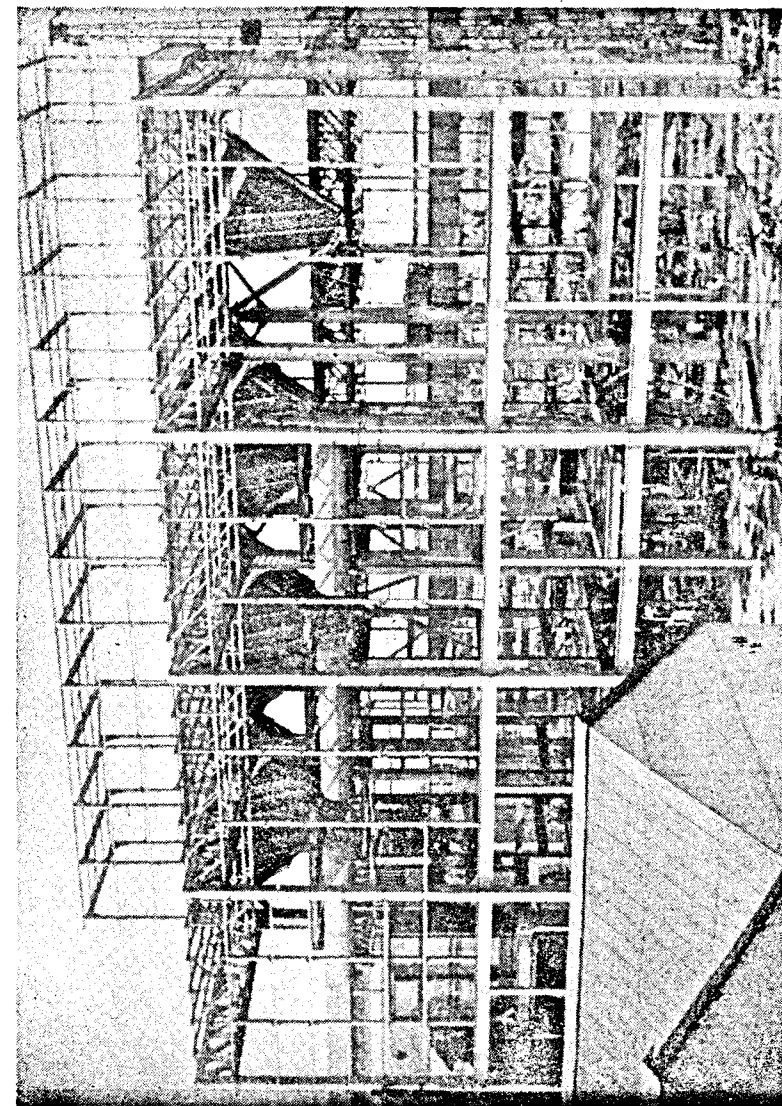
(1) Taking over of Sembiam and Tiruvottiyur undertakings programmed for 1st April 1951.

(2) Balance works of the erection of two numbers 250 KW. rectifier banks at Egmore S.S. (now in progress).

(3) Balance of works on the 11 KV line from Basin Bridge to Isolation Hospital.

(4) Completion of the 33 KV line from Korattur to Avadi base including supply to T.I. Cycles (now in progress).

(5) Erection of a 33/11 KV sub-station at Poonamallee and inter-connecting 33 KV lines from Korattur-Poonamallee.



GENERAL VIEW OF THE STEEL FRAMEWORK FOR THE 'B' STATION MAIN POWER HOUSE—THREE NUMBERS BOILER DRUMS ARE IN POSITION AND THE FOURTH COAL BUNKER IS UNDER ERECTION.

(6) Construction of 33 KV/11 KV line to Ponneri to cater to rural loads in Ponneri-Minjur area.

(7) Extension of supply to Standard Motor Works, Vandalur; India Pistons, Sembiam; and Wood Screw Manufacturing factory.

(8) Extension of supply to rural areas around Poonamallee—Ennore, etc.

(9) Part of the development plan of the distribution in the Madras City and suburb.

ANDHRA POWER SYSTEM.

102. *General.*—The Andhra power system comprises (i) the steam electric stations at Visakhapatnam, Vijayavada and Nellore, (ii) the diesel stations at Kakinada, Kurnool, Anantapur, Cuddapah and Sandur and (iii) the Ceded Districts and adjoining areas fed by hydro-electric power from the Jog scheme of the Mysore Government.

The operation and maintenance of all the generating stations with their connected transmission lines and distributions were satisfactory.

The Nellore thermal station intended to relieve the power shortage in the Nellore-Licensee's and surrounding areas was inaugurated and commissioned in October 1950 with two turbo-sets of 2,500 KW capacity each. Power shortage continued to be acute in the whole Circars area. The installation and commissioning of 2—600 KW diesel generating sets at Visakhapatnam and 2 numbers, 500 KW sets at Vijayavada and 2 numbers, 267 KW diesel sets at Kakinada during the year went to relieve the power shortage to certain extent. In the Visakhapatnam area the position has further eased recently consequent on the commissioning of the new 1,500 KW turbo-set. The progress of erection of the two 3,000 KW turbo-sets at the Vijayavada power-house was delayed by the non-receipt of a few boiler parts and the first set is expected to be put into commercial service only by July 1951.

The Bellary undertaking was taken over by the Government on 10th May 1950.

The Hindupur municipal undertaking was taken over by Government on 30th June 1950 and is being managed by Government since then, taking supply from the Mysore State.

The Prodatpur electricity undertaking was taken over by the department on 29th December 1950 and supply to the area which had been stopped while under the licensee for over 16 months was resumed on 21st February 1951 with the installation of 2—85 KW diesel generating sets and renovation of the distribution.

The Narasaraopet Company electrical undertaking has vested in the Government on 26th February 1951.

The Hospet municipal undertaking was taken over by the department on 16th March 1951.

To augment the generating capacity in the Rajahmundry Licensee's area one 267 KW diesel set was erected and put into service in 1950. Another diesel generating set of 235 KW capacity is now under erection and is expected to go into commercial use during June 1951.

The peak demand of power purchased from Mysore Government for Ceded Districts was 2,160 KW and this is expected to increase rapidly due to extensive commercial work and extensions being carried out in this area. The Bellary town which had partial D.C. supply has been completely changed over to A.C. One hundred and fourteen agricultural services with a connected load of 620 KW were connected up during the year under review, bringing the total number of agricultural services at the end of the year

to 627 with a connected load 2,453 KW. Also 109 numbers small rural industries were connected up during the year. The target for agricultural pumpsets fixed for the system for the year was 220 but this could not be kept up due to the inability of the agriculturists to be ready with their equipments for receiving supply even though the lines were ready.

VISAKHAPATNAM SYSTEM.

103. *General.*—During this, the 12th year of operation, the peak load of the system reached 3,000 KW and this could be met satisfactorily, with the newly added 600 KW diesel sets, which came into operation during November 1950. The IV turbo-set of 1,500 KW capacity was commissioned during March 1951 and this has eased the power position in the area served by the thermal station to a considerable extent. The number of units generated during the year was 13.4 millions against 12.08 millions during 1949-50.

The gross revenue earned by the system during the year was Rs. 11.43 lakhs against Rs. 10.42 lakhs in 1949-50.

104. *Power-house.*—The operation and maintenance of the power-house continued to be satisfactory and the coal position was also normal. The V boiler was put into commercial use during December 1950. The erection of the V turbo-set of 1,500 KW capacity is in progress. It is proposed to increase the boiler capacity of the station by adding another boiler of 22,000 lb./hour capacity for which orders have been placed on Messrs. Babcock and Wilcox.

105. *Load Development.*—The following table indicates the development of load and revenue since commencement of operation of the system :—

Year.	Peak load in K.W.	Units generated in millions.	Gross revenue. RUPRES. IN LAKHS.
1938-39	820	1.78	0.85
1939-40	1,010	2.49	1.37
1940-41	1,000	3.00	1.77
1941-42	980	3.09	1.91
1942-43	840	2.91	2.09
1943-44	960	3.64	2.31
1944-45	1,160	4.77	3.36
1945-46	1,600	6.55	4.47
1946-47	2,140	7.26	5.28
1947-48	2,500	7.40	5.80
1948-49	2,800	10.68	8.59
1949-50	2,800	12.08	10.42
1950-51	3,000	13.40	11.43

106. Financial results—

	RS.
Total capital outlay	68,58,632
Gross revenue	11,42,842
Working expenses excluding depreciation reserve fund	8,69,236
Depreciation reserve fund	1,45,500
Special reserve fund	58,200
Total working expenses	10,72,936
Net revenue	69,906

107. *Connected load.*—The connected load at the end of the year under different categories is furnished below :—

	Number of consumers.	Connected load in K.W.
I. H.T. supplies—		
(a) Textiles	1	660
(b) Cement	..	..
(c) Chemicals	..	..
(d) Mining (manganese)	2	240
(e) Ship building	1	2,205
(f) Oil and other industries	3	417
(g) Sugar	1	168
(h) Tea estates	..	..
(i) Licences	6	3,320
(j) Miscellaneous including supplies to Government and military	2	640
II. L.T. supplies—		
(a) Industrial	86	1,462
(b) Agricultural	25	146
(c) Domestic heat, power and light	2,113	1,318
(d) Commercial heat, power and light	337	73
(e) Street lighting	3	35
(f) Public water works	..	..
(g) Miscellaneous including military area, etc.	8	157
Total	2,589	10,841

The total connected load at the end of the year was 10,841 K.W. against 11,612 K.W. during 1949-50.

108. Transmission lines, sub-stations and distributions.—

Voltage.	Constructed during 1950-51.		Total in service at the end of 1950-51.	
	Single circuit. IN MILES.	Double circuit. IN MILES.	Single circuit. IN MILES.	Double circuit. IN MILES.
H.T. lines—				
33 K.V.	..	..	55.1	2.6
11 K.V.	16.9	..	110.5	10.7
Total	16.9	..	174.6	13.3
L.T. lines	1.11	..	64.91	..

Net increase in mileage during the year amounted to 16.9 miles of H.T. lines and 1.11 miles of L.T. lines.

The number of H.T. transformer station was three with an aggregate capacity of 5,100 K.V.A. and the number of distribution transformers in service were 43 with an aggregate capacity of 2,335 K.V.A.

109. *Extensions.*—H.T. supply was effected during the year to the Vizagapatam Vanaspathi Oil Company, Limited, Sithanagaram, and to Sri Rama Sugar Mills. Supply of power was also extended to villages in Pendurthi firka and Simhachalam.

110. *Agricultural services.*—Seven agricultural services with a connected load of 62 K.W. and seven rural industries with a connected load of 101 K.W. were connected up during the year bringing the total number of agricultural

services at the end of the year to 25 with a connected load of 146 K.W. and the number of rural industries to 63 with a connected load of 878 K.W.

VIJAYAVADA SYSTEM.

111. *General.*—The peak load of the station during this the 12th year of operation of the system reached 4,902 K.W. against 4,096 K.W. in 1949-50 and was met by the steam station along with two diesel sets which came into operation in April 1950. Purchase of power from Messrs. Kistna Cement Company was continued during this year also. The total number of units generated during the year was 22.63 millions against 18.8 millions in 1949-50. There is very heavy demand for power in this area and the present tight position is likely to ease to a great extent on the commissioning of the two turbo-sets of 3,000 K.W. capacity now under erection. The gross revenue earned during the year was Rs. 15.03 lakhs against Rs. 13.05 lakhs in 1949-50.

112. *Power-house.*—The turbo-sets and boilers in the power house were maintained in a satisfactory condition. The acute power position in the area was to a great extent relieved by the installation of the 2,500 K.W. diesel sets. The position is expected to improve further on the commissioning of the IV and V 3,000 K.W. turbo-sets, the erection of which is on hand. On account of non-receipt of outstanding boiler parts, there is some delay in completing the erection.

113. *Load development.*—The table below indicates the growth of load and revenue of the system since it was put into commercial use in 1938-39 :—

Year.	Peak load in K.W.	K.W. Hrs. generated in millions.	K.W. Hrs. purchased from Messrs. Kistna Cement Company.	Gross revenue.
				RUPEES
				IN LAKHS
1938-39	530	..	..	..
1939-40	1,540	4.68	..	1.89
1940-41	2,000	6.61	..	2.84
1941-42	2,300	9.12	..	3.68
1942-43	2,080	8.99	4.32	4.11
1943-44	2,420	10.49	3.01	6.25 *
1944-45	2,400	10.53	0.77	4.88
1945-46	2,500	10.38	0.63	5.83
1946-47	3,520	11.23	1.03	6.53
1947-48	3,900	14.00	1.30	7.30
1948-49	3,900	17.30	1.34	12.82
1949-50	4,096	18.80	0.29	13.05
1950-51	4,902	22.63	1.11	15.03

* Larger amount due to miscellaneous revenue from sale of materials.

114. Financial results :—

	Rs.
1. Total capital outlay	85,49,754
2. Gross revenue	14,59,928
3. Working expenses excluding depreciation reserve fund and suspense.	14,43,644
4. Depreciation reserve fund	94,087
5. Total working expenses	15,37,731
6. Net deficit	7,803

115. *Connected load.*—The connected load at the end of the year under different categories is furnished below :—

	Number of consumers.	Connected load in K.W.
I. H.T. supplies—		
(a) Textiles	..	..
(b) Cement	1	890
(c) Chemicals	1	164
(d) Sugar	1	498
(e) Licensees	4	5,019
(f) Municipalities	2	3,447
(g) Oil and other industries	3	271
Total	12	10,289
II L.T. Supplies—		
(a) Industrial supplies	73	1,147
(b) Irrigation and Agriculture	565	2,033
(c) Domestic heat and light	739	358
(d) Commercial power and light	45	12
(e) Street lighting	7	5
(f) Water works	..	..
(g) Miscellaneous	3	5
Total	1,432	3,560
Grand total	1,444	13,849

The total connected load at the end of the year was 13,849 K.W. against 11,969 K.W. in 1949-50.

116. *Transmission lines, sub-stations and distributions.*—The total mileage of transmission and distribution lines connected during the year and at the end of the year were as shown below :—

Voltage.	Constructed during 1950-51.		Total in service.	
	Single circuit.	Double circuit.	Single circuit.	Double circuit.
	MILES.	MILES.	MILES.	MILES.
33 K.V.	17.0	..	113.4	5.8
11/33 K.V.	17.0	..	17.0	..
11 K.V.	4.1	..	111.8	..
Total	38.1	..	242.2	5.8
L.T. lines	65.5	..	182.1	..
Total	65.5	..	182.1	..

Net increase in mileage during the year amounted to 38.1 miles of H.T. line and 65.5 miles of L.T. lines.

There were eight H.T. sub-stations with an aggregate capacity of 7,450 K.V.A. Five new distribution transformers were added and ten transformers were replaced by higher capacity units. The aggregate capacity of the distribution transformers at the end of the year was 3,760 K.V.A. with 71 distribution transformers in service against 3,140 K.V.A. with 66 transformers in 1949-50.

117. *Extensions.*—The Guntur-Narasaraopet and the Tenali-Bapatla-Chirala extensions are in progress. Second point of supply to Guntur licensee and erection of Tadepalli sub-station were taken up and completed.

118. *Agricultural services*.—Supply was effected to 86 agricultural services with a connected load of 294 K.W. bringing the total to 565 and 2,033 K.W., respectively to end of the year.

119. *Rural industries*.—Twenty-eight rural industries with a connected load of 294 K.W. were connected up during the year bringing the total to 73 and 1,147 K.W., respectively, to end of the year.

KAKINADA SYSTEM.

120. *General*.—The year under review is the 11th year of operation of the system and the system peak load reached 1,100 K.W. against 810 K.W. in the previous year. Number of units generated in 1950-51 was 3.67 millions against 2.53 millions in the previous year. The gross revenue earned during the year was Rs. 4.44 lakhs as compared to Rs. 3.39 lakhs last year.

121. *Power-house*.—The operation and maintenance of the power-house was satisfactory. The two 267 diesel sets which were taken up for erection last year were brought into beneficial use during the year 1950-51. The 50 K.W. diesel generating set which was dismantled from the power-house was transferred to Tadpatri for erection there. Relief was given to the Rajahmundry licensee whenever the Andhra Paper Mills availed shut down.

Erection of the 33 K.V. station at Kakinada is in progress.

122. *Load development*.—The growth of load and revenue of the system during the 11 years of operation is furnished in the statement below :—

Year.	Peak load in K.W.	K.W. Hrs. generated in millions.	Gross revenue. RUPEES IN LAKHS.
1940-41	325	0.77	0.47
1941-42	380	0.94	0.76
1942-43	341	0.92	0.81
1943-44	314	0.86	0.91
1944-45	350	1.06	1.19
1945-46	420	1.40	1.62
1946-47	380	1.25	1.23
1947-48	460	1.46	1.42
1948-49	590	1.89	2.32
1949-50	810	2.53	3.39
1950-51	1,100	3.67	4.44

The recent sharp increase in peak load is attributable to the relief given to Rajahmundry whenever the Andhra Paper Mills availed a shut down.

123. Financial results :—

	RS.
1 Total capital outlay	17,19,501
2 Gross revenue	4,44,333
3 Operation and maintenance expenses excluding depreciation reserve fund and special reserve fund ..	4,29,995
4 Depreciation reserve fund	34,200
5 Special reserve fund	13,700
6 Total expenses	4,77,895
7 Net deficit	33,562

124. *Connected load*.—The table below shows the connected load of the system under different categories :—

	Number of consumers.	Connected load in K.W.
H.T. supplies—		
(a) Textiles	..	..
(b) Cement	..	..
(c) Chemicals	..	..
(d) Oils and other industries	1	133
(e) Licensees	1	1,619
Total for high tension	2	1,752
L.T. supplies—		
(a) Industrial	84	780
(b) Irrigation and agriculture	27	306
(c) Domestic heat and light	1,386	620
(d) Commercial heat and light	188	38
(e) Public lighting	7	73
(f) Public water-works	..	..
(g) Municipalities miscellaneous	2	189
Total for low tension	1,694	2,006
Grand total	1,696	3,758

The total connected load at the end of the year was 3,758 K.W. against 2,262 K.W. at the end of 1949-50.

125. Transmission lines, sub-stations and distributions—

Voltage.	Constructed during the year 1950-51.		Total in service.	
	Single circuit. MILES.	Double circuit. MILES.	Single circuit. MILES.	Double circuit. MILES.
33 K.V. lines	..	..	..	..
11 K.V. lines	19.2	..	79.0	..
Total	19.2	..	79.0	..
Low tension lines	11.5	..	45.0	..

Net increase in mileage during the year amounted to 19.2 miles of high-tension lines and 11.5 miles of low-tension lines.

The number of distribution transformer stations at the end of 1950-51 was 27 with a total capacity of 1,260 K.V.A. against 16 with a capacity of 695 K.V.A.

126. *Agricultural services*.—Sixteen agricultural services with a connected load of 253 K.W. were connected up bringing the total to 27 and the total connected load to 306 K.W., respectively.

127. *Rural industries*.—Thirty-five rural industries with a connected load of 656 K.W. were connected up during the year bringing the total number to 84 and the total connected load of 971 K.W.

128. *Extensions*.—The following are the important works taken up during the year and either completed or under execution at the end of the year :—

- Extension of 11 K.V. line to Messrs. Rao and Murthy, Endrapalem, Kakinada.
- Extension of supply to Sago Factory, Kakinada.
- Extension of supply to agricultural and industrial loads, Pithapuram.

- (d) Extension of supply to Messrs. Parry and Company, Samalkot.
 (e) Extension of supply to 14 agricultural services at Pata Pedda puram.
 (f) Extension of supply to agricultural loads at Vemulavada, Kakinada

NELLORE.

129. *General.*—The Nellore Thermal scheme intended to meet the power requirements of the Nellore district was inaugurated on 2nd October 1950 with 2 Nos. 2,500 KW transportable steam turbo-sets with oil fired boilers. The station has been working satisfactorily since. The peak load of the system has reached 600 KW and the number of units generated to end of March 1951 was 1.05 millions. There is large demand for power in the area.

The gross revenue earned was Rs. 61,552.

130. *Connected load.*—The table below shows the connected load of the system at the end of the year:—

	Number of consumers	Connected load in K.W.
H.T. supplies—		
Licencees	1	750
Total ..	1	750
L.T. supplies—		
(a) Industrial	1	16
(b) Agricultural	..	..
(c) Domestic heat and light	..	..
(d) Street lighting	..	..
(e) Miscellaneous	..	..
Total ..	1	16
Grand total ..	2	766

KURNOOL SYSTEM.

131. *General.*—The operation and maintenance of the system during this, the fourth year of operation as a Government-owned undertaking was satisfactory. Full 24 hours supply was resumed after the erection of the 267 KW diesel set in the power house. The peak load of the system was 360 KW against 190 KW in 1949-50 and the units generated was 0.876 million against 0.65 million in the previous year. The gross revenue earned was Rs. 1.49 lakhs compared to Rs. 1.2 lakhs last year.

132. *Power-house.*—The generating capacity of the power-house was increased during the year by the commissioning of the new 267 KW diesel set. Repairs to the 200 KW set were also completed.

133. *Load development.*—The load development in the area of the system since the undertaking was taken over is furnished below:—

Year.	Peak load in K.W.	K.W. Hrs. generated in millions.	Gross revenue in lakhs of rupees.
1947-48	140	0.33	0.68
1948-49	165	0.56	1.02
1949-50	190	0.65	1.20
1950-51	360	0.876	1.49

134. *Financial results.*—

	RS.
Capital outlay	3,92,083
Gross revenue	1,48,669
Working expenses excluding depreciation	1,43,408
Depreciation reserve fund	8,300
Special reserve fund	3,300
Total expenses	1,55,008
Net deficit	6,339

135. *Connected load.*—The connected load at the end of the year under review was as follows:—

Particulars.	Number of consumers.	Connected load (K.W.).
(a) High tension supplies	..	..
(b) Low tension industrial	37	305
(c) Agricultural	1	2
(d) Domestic heat and light	1,000	417
(e) Public lighting	..	..
(f) Cinemas	..	..
(g) Commercial light and power	73	15
(h) Railways	..	..
(i) Street lighting	1	15
(j) Flat rate services	..	..
Total ..	1,112	754

136. *Transmission lines and distributions.*—The table below gives the length of transmission lines of different voltages at the end of the year:—

Voltage.	Constructed during the year.	Total at the end of the year.
	MILES.	MILES.
3.3 KV	..	3.5
Low tension lines	1	30.9

The total number of distribution transformers in the system was four with a total capacity of 275 KVA.

There was only one agricultural service with a connected load of 2 KW at the end of the year. Fourteen rural industrial loads with a connected load of 147 KW were connected during the year.

CUDDAPAH SYSTEM.

137. *General.*—This is the third year of operation of the system after the undertaking was transferred to Government. The operation and maintenance of the system during the year was satisfactory. The peak load of the system was 200 KW against 150 KW in the previous year, and the number of units generated was 0.694 million against 0.47 million in the previous year.

138. *Power-house.*—The oil engine generator sets in the power-house were maintained in a satisfactory condition.

To augment the generating capacity of the station, two 235 KW diesel sets are under erection, and these are expected to go into operation early in the next financial year.

139. Financial results.—

	RS.
Capital outlay	8,29,103
Gross revenue	1,40,118
Working expenses excluding depreciation	1,14,639
Depreciation reserve fund	10,100
Special reserve fund	4,100
Total Expenses	1,28,839
Net revenue	11,279

140. Connected load.—

	Number of consumers.	Connected load in K.W.
Low tension industrial loads	48	253
Agricultural	7	47
Domestic light and power	881	442
Commercial light and power	107	18
Street lighting	1	15
Total	1,044	775

141. *Transmission lines.*—At the end of the year, there were 8 miles of 11 KV lines and 25 miles of low-tension lines in service.

The number of distribution transformers in service as at the end of March 1951 was four with an aggregate capacity of 137 KVA.

142. *Agricultural services.*—Three agricultural services with a connected load of 11 KW were connected up during the year bringing the total number to the end of the year to seven with a connected load of 46.76 KW, respectively.

143. *Rural industries.*—Three rural industries with a connected load of 49 KW were connected up during the year.

ANANTAPUR SYSTEM.

144. *General.*—This is the second year of operation of the undertaking under Government management. The supply position in the area is still unsatisfactory and is expected to improve as soon as the new 235 KW diesel generating set under erection is brought into beneficial use. The set is likely to come into operation early in 1951-52. The peak load of the station in 1950-51 was 110 KW against 91 KW in 1949-50 and the units generated was 0.28 million against 0.179 million in the previous year.

The gross revenue earned was Rs. 70,799 against Rs. 39,904 last year.

145. Financial results—

	RUPEES.
Capital outlay	2,79,377
Gross revenue	70,799
Working expenses excluding depreciation	78,477
Net deficit	7,678

146. Connected load—

Particulars.	Number of consumers.	Connected load in K.W.
(a) Low tension industrial	15	124
(b) Agricultural	5	13
(c) Domestic light and power	432	153
(d) Street lighting	1	12
(e) Commercial lighting	30	11
Total	483	313

147. *Transmission lines and distributions.*—There were 3.3 miles 11 KV line and 13.1 miles of L.T. lines at the end of the year. The number of distribution transformers at the end of the year was three with an aggregate capacity of 170 KVA.

THE CEDED DISTRICTS SCHEME.

148. *General.*—The transmission and distribution lines and connected equipments at Sokke, Kudligi, Tungabhadra dam site, Bellary and Guntakal sub-stations were maintained satisfactorily. Supply from Mysore Government was satisfactory. The peak demand reached 2,160 KW and the number of units purchased amounted to 6.7 millions.

The gross revenue earned during the year was Rs. 3,27,440.

149. *Connected load.*—The table below indicates the number of consumers at the end of the year :—

	Number of consumers.
H.T. Supplies—	
(a) Textiles	1
(b) Cement	..
(c) Chemicals	..
(d) Oil and other industries	3
(e) Licensees	2
(f) Sugar	1
(g) Miscellaneous	2
L.T. Supplies—	
(a) Industrial supplies	53
(b) Irrigation and agriculture	..
(c) Domestic heat, power and light	1,368
(d) Commercial heat, power and light	18
(e) Public lighting	4
(f) Public water-works	..
(g) Miscellaneous	..
Total	1,452

There were 91 miles of 66 KV lines, 42 miles of 33 KV lines, and 70 miles of 11 KV lines, and 1.75 miles of 6.6 KV lines, and 51 miles of L.T. lines at the end of the year. Total length of lines is 306 miles.

The number of E.H.T. transformer stations was six with an aggregate capacity of 7,450 KVA and the number of distribution transformers in service was 19 with a total capacity of 1,325 KVA.

150. *Extensions.*—The following are the more important extensions taken up and either completed or under execution during the year :—

- Supply to Hyderabad Government.
- Supply to Alur-Halaharvi scheme.
- Bellary 11 KV. ring.
- Kudligi extensions.

RAJAHMUNDY.

151. *General.*—To improve the supply position in the Rajahmundry licensee's area one new 267 KW diesel set was erected in addition to the one 300 KW rail-road set already erected in the licensee's power house last year. Consequent on the erection and commissioning of these sets the power position in the licensee's area has become satisfactory. Another 235 KW "Merrlees" diesel set is now under erection and is expected to be brought into commercial use early in 1951-52.

The total demand so far reached by the licensee was 526 KW (against 400 KW in 1949-50) with a generation of 0.333 million units against 0.097 million units in 1949-50.

The gross revenue earned by sale of power to licensee during the year was Rs. 2,58,275.

The following works were carried out in this area during the year either complete or under erection :—

- (1) Erection of 2 × 250 KVA step-up transformers.
- (2) Rajahmundry-Samalkot 33 KV line.
- (3) Bommura-Dowleishwaram 11 KV line.
- (4) Andhra Paper Mills to Rajahmundry Supply Corporation 11 KV line.

SANDUR.

152. *General.*—This is the second year of operation after taking over by Government. The supply was maintained satisfactorily. The peak load of the station was 32 KW and the units generated 47,000 units. To improve the power position one 22 KW generating set has been erected and the existing D.C. supply in the area is being gradually changed over to A.C.

The gross revenue earned was Rs. 11,318.

The number of consumers was 300 and the connected load 38.5 KW. There were 9.6 miles of L.T. lines at the end of the year.

HINDUPUR.

153. *General.*—The Hindupur municipal distribution was taken over under Government management from June 1950 and supply changed over from D.C. to A.C. Power is being purchased from Mysore Government at 25 cycles for distribution in the area. The peak reached so far was 180 KW and the number of units purchased 0.2 million.

The gross revenue earned during the year was Rs. 27,554.

The number of consumers at the end of the year was 343 with a connected load of 374 KW.

At the end of the year there were 5.05 miles of 33 KV lines, 4.56 miles of 11 KV lines and 9.86 miles of L.T. lines. There was one H.T. transformer station with an effective capacity of 250 KVA and the number of distribution transformers in service was four with a total installed capacity of 400 KVA.

PRODDATUR.

154. *General.*—The Proddatur company undertaking was taken over by Government from the licensee on 29th December 1950. Two 85 KW diesel generating sets were installed and supply to street lights were switched on 21st February 1951. The service lines have been rectified and power was

made available to 123 consumers at the end of the year. Supply was also effected to one agricultural service with a connected load of 5.6 KW.

155. *Firka development schemes in the Andhra area.*—The following is the progress on the various firka development schemes in the Andhra area :—

(1) *Pendurthi firka scheme.*—This scheme contemplates the erection of 10 miles of 11 KV line and 5½ miles of L.T. distribution lines to afford supply to two numbers agricultural pumps, two industrial loads and 100 domestic services spread over seven villages. Eighty per cent of the work has been completed. Supply has been effected to Pedagadi and Pendurthi, and balance of works is in progress.

(2) *Rajahmundry firka scheme.*—The above scheme envisages supply to eight villages for catering to 70 agricultural pumps, nine industrial loads and 342 numbers domestic and flat-rate services and contemplate erection of 12 miles of 11 KV lines and 20.4 miles of L.T. lines. Work is in good progress and supply has been effected to Katteru village.

(3) *Kurnool firka scheme.*—All works under the scheme have been completed and supply effected to consumers in Roza village contemplated in the scheme.

(4) *Tiruvur firka scheme.*—A proposal covering 20 villages of the Tiruvur-Vissannapeta and Nuzvid firkas costing Rs. 17.84 lakhs in the first year and rising to Rs. 24.229 lakhs in the fifth year is under finalization.

(5) *Proddatur firka scheme.*—The scheme, contemplating the erection of 10.5 miles of 11 KV and 11.75 miles of L.T. lines to effect supply to agricultural and domestic services in 14 villages is under finalization.

(6) *Alur and Hathibelagallu firka scheme.*—The works under Alur and Hathibelagallu firka schemes have been completed and supply switched on during the later half of the year.

(7) *Dendalur firka.*—The sanctioned work is in progress.

A supplemental scheme for development of the balance of 20 villages in the firka is under finalization.

156. *Audit, accounts, stores and administration.*—The accounts of the system were maintained satisfactorily. The central and sub-stores were maintained in good condition.

157. *Programme for 1951-52.*—(1) The erection of fifth turbo-set of 1,500 KW capacity at Visakhapatnam will be completed and the erection of sixth boiler, which is on order, will be taken up.

(2) The commissioning of the two 3,000 KW turbo-sets and connected boilers at Vijayavada is expected to be completed and surplus power will then be made available to West Godavari, Rajahmundry and Kakinada.

(3) The new division sanctioned for acquisition of electrical undertakings has been formed and a number of undertakings, which are now being managed by local authorities and private agencies, will be taken over by the department. All municipal managed undertakings are expected to be taken over first on 15th May 1951 as per programme.

(4) The new 235 KW diesel generating sets on order are expected to be put into service during next year at Udipi, Cuddapah, Anantapur and Rajahmundry. A few more additional diesel sets which are also being ordered for Andhra power system will be erected at various places where demand for power needs it.

(5) It is proposed to carry out extensive commercial work in the system in order to keep sufficient load on hand when the hydro-power from Machkund is made available as expected in 1953.

ELECTRICAL INSPECTORATE AND LICENSEES.

158. *Electrical undertaking*.—There were 68 licensees' undertakings at the close of the year out of which 28 were managed by local bodies and the rest by private companies. Three undertakings, viz., Rameswaram, Sembium and Kasargod were operating under section 28 of the Indian Electricity Act in addition to the above.

The East Coast Electric Supply Corporation, Limited, commenced supply from 2nd September 1950 and Messrs. Kanara Ceramics, Limited, Kasargod, commenced full supply from January 1951.

The Rameswaram Panchayat Board undertaking operating under section 28 of the Indian Electricity Act was permitted to continue to supply energy for a further period of three years from 15th July 1949 or for a lesser period as may be specified by Government at a later date.

Inasmuch as the provisions of clauses 8 (a) and 8 (c) of the Ponnani Electric Licence were not complied with by the Ponnani licensee, the licence was revoked with effect from 25th August 1950.

Excepting in the case of most of the self-generating licensees the supply position in licensees' areas was fairly normal. The Nellore licensee closed down its generating station and changed over to bulk supply from the Government thermal station at Nellore from 2nd October 1950 and since then the supply position in the licensee's area has improved considerably.

War costs surcharge was being levied by eight licensees at the close of the year and seven licensees were permitted to levy fuel surcharge.

In order to enable the South Madras Electric Supply Corporation to extend supply to rural parts in the Musuri and Kulithalai taluks of the Tiruchirappalli district and in the Sivaganga taluk of Ramnad district a loan of Rs. 5 lakhs was sanctioned to the licensee.

The accounts of 30 licensees were audited by the audit staff of the inspectorate.

One thousand, two hundred and three cinemas were functioning at the end of the year of which 479 were permanent and 724 temporary.

Applications for raising debentures were received from the Vellore, Guntur and Nellore licensees for 1 lakh, 4 lakhs and 3 lakhs respectively and suitable recommendations made to Government. Under section 9 (2) of the Indian Electricity Act, the West Coast and Nagapattinam licensees were permitted to raise debenture loans for Rs. 2.5 lakhs and Rs. 2.0 lakhs respectively. Extension of time for redemption of existing debentures was granted in the case of the Kumbakonam licensee.

159. *Indian Electricity Act and Rules*.—The Act and Rules were extended to the merged Pudukkottai State and the question of amendments to the existing licences issued by the Durbar to bring it in consonance with the latest standard form of licence is under consideration.

The Chittoor licence has been amended so as to enable the licensee to supply power at a higher pressure of 11 KV.

Relaxation of rule 49 (5) to (8) was permitted till 31st May 1950. Applications for extension of the period were either allowed or under consideration.

Inasmuch as many licensees had not provided linked switches as required under rule 60 (1) (d), general relaxation of the rule in respect of rural substations of capacity less than 100 KVA was under consideration.

Rule 58 has been relaxed in the case of the Nellore licensee.

Rule 71 was relaxed in the case of the following licensees:—

- (1) Pudukkottai Electric Supply Corporation.
- (2) Mayuram-Mannargudi-Tiruvarur Electric Licence.
- (3) Tiruchi-Srirangam Electric Licence.

Proposals for enforcing rule 48 in this State were under consideration.

160. *Street lighting*.—The revised model form for street lighting agreements to be entered into between licensees and local bodies was awaiting approval of Government. The Chief Electrical Inspector to Government was appointed arbitrator in respect of a dispute between the Nagapattinam Licensee and the Nagapattinam Municipality.

161. *Tariffs*.—With reference to clause 1 of the VI Schedule of the Electricity Supply Act, company licensees should adjust their rates by periodical revisions so that the clear profit in any year does not exceed the amount of reasonable return referred to in the schedule. In accordance with these provisions, the Tirunelveli-Tuticorin and the Mangalore licensees reported reduction of their retail rates. To what extent the reductions made satisfy the provisions of the Act was under examination.

The accounts of all local authority undertaking are being scrutinized, with special reference to the surplus profits earned and necessary action is being taken to reduce the rates whenever profits exceed certain stipulated limits laid down in the power agreements.

162. *Inspections*.—Seventy statutory inspections were made during the year.

163. *Restriction and control and freezing orders*.—As the Madras Essential Articles Control and Requisitioning (Temporary Powers) Act is valid till 30th September 1951, the restriction and control and freezing orders which were issued under the above Act continues to be in force up to 30th September 1951.

Exemption of street lighting supplies from the applicability of restriction and control orders in respect of hydro-electric areas was approved by Government in G.O. No. 417, Public Works, dated 30th January 1951.

The freezing orders served on licensees have been withdrawn.

164. *Rationing of electricity*.—Rationing continued to be in force in the areas of licensees served by the Government thermal stations at Madras, Vijayavada, Kakinada and in the Nellore till 2nd October 1950 when the licensee changed over to Government bulk supply.

Cinemas have been exempted from the application of the rationing rules in the areas served by the Kakinada and Vijayavada systems.

165. *Supply position in the licensees' areas*.—(1) *Hydro-electric areas*.—Restrictions on account of water shortage imposed in the inter-connected hydro-grid systems of Mettur, Pykara and Papanasam were withdrawn in June 1950 but the Superintending Engineers were delegated powers by Government under the Madras Essential Articles Control and Requisitioning (Temporary Powers) Act to impose peak-load and staggering restrictions.

Due to the failure of the north-east monsoon in 1950-51, water conditions have again become unsatisfactory, the hydro-systems and emergency restrictions including a cut of 15 per cent on all industrial consumers have been enforced from the 15th February 1951.

Supply of Mysore power from the Jog generating station of the Mysore Government has been extended to Adoni and Bellary areas and the restrictions in the Adoni licensees' area have been relaxed.

(2) *Thermal areas*.—(a) *Madras system*.—All applications for industrial loads exceeding 15 h.p. were continued to be scrutinized by the departmental committee system.

(b) *Vijayavada power-house.*—The power position in this area eased to a certain extent consequent on the commissioning of two 500 KW. diesel sets. The paucity of power continues and many applications for supply were pending. The IV turbo-set of 3,000 KW. capacity is expected to be commissioned at the power-house early in June 1951.

(c) *Visakhapatnam power-house.*—Consequent on the commissioning of two 600 KW. diesel sets from 1st December 1950 the supply position in this area improved. The IV turbo-set has just gone into service and with this the supply position is likely to be more satisfactory.

(d) *Kakinada power-house.*—The supply position is fairly satisfactory and power loads are being permitted with peakload restrictions.

(e) *Nellore power-house.*—The Nellore thermal station went into commercial operation from 2nd October 1950 and bulk supply given to the licensee. Consequently the supply position in the area eased considerably.

(3) *Self-generating licensees.*—(i) *Rajahmundry.*—Supply position was not quite satisfactory and new power loads are allowed to work for five hours in day time, avoiding peak hours.

(ii) *Mangalore.*—Power position is fairly satisfactory and power loads are being sanctioned subject to restricted hours of work. A scheme to acquire and improve the supply position by erecting an additional generating set is awaiting orders of Government.

(iii) *Narasaraopet, Ongole and Proddatur.*—Due to the breakdown of the engines in these areas, there has been no supply for some time. The Proddatur undertaking was taken over by the Government on 29th December 1950 and supply resumed. The Narasaraopet Undertaking has vested in the Government on 26th February 1951. The Ongole Undertaking will be taken over on 16th April 1951.

(iv) *East Coast licensee.*—The licence commenced operation in September 1950.

(v) *Other licensees.*—Supply position in Udipi, Parvathipur and Sriakulam and Fort Cochin continued to be unsatisfactory and is expected to improve after acquisition by Government.

166. *Assistance to licensees in regard to procurement of iron and steel materials.*—Applications from licensees for the above materials were scrutinized and forwarded to Central Electricity Commission with suitable recommendations.

167. *Surcharges.*—Eight licensees were levying war costs surcharge, and fuel surcharges of varying amounts were being levied by Guntur, Gudivada, Rajahmundry, Salur and Visakhapatnam licensees at the close of the year. Kakinada licensee continued the levy up to 31st May 1950 and the Eluru licensee up to 31st December 1950.

168. *Laboratory.*—Supply pressure and meter test of 8 licensees were carried out during the year. The following list gives the tests carried out in the laboratory at Madras and during inspection of licensees' areas:—

Laboratory.			
Rotating sub-standard meters	..	..	219
Commercial meters and instruments	..	..	320
Fire-extinguishers	..	..	1,438
Transformer oil samples	..	..	269
Test of standard instruments belonging to the laboratory	..	..	12

Inspection tests.

Meters at site	..	..	..	..	..	..	471
Voltage tests	..	..	..	..	..	..	323
Total							3,052

H.T. D.C. tests were carried out on the following lines:—

Description of line.	Length of line.	Date of test.
1. Pykara-Moyar double circuit 110 KV. line	8 miles	3rd July 1950.
2. Moyar-Satyamangalam double circuit 110 KV. line	40 miles	4th July 1950.
3. Vijayavada-Chebrolu section of Vijayavada-Rajahmundry 66 KV. single circuit line	60.5 miles	15th December 1950.

The revenue of the testing laboratory excluding system contributions amounted to Rs. 16,485.

169. *Local authorities electrical undertakings.*—Applications for loans aggregating Rs. 3,10,300 were received and loans amounting to Rs. 1,31,000 were recommended. No provision for loans to electrical undertakings has, however, been made in the Budget Estimate for 1951-52 due to the decision of Government to acquire all local authority undertakings during the year under the provisions of the Madras Electricity Supply Undertakings (Acquisition) Act.

Technical sanction to estimates to the extent of Rs. 95,374 was accorded. Tenders to the value of Rs. 1,52,506 were scrutinized and advice given.

170. *Madras Cinematograph Act and Rules.*—The total number of cinemas in the State at the end of the year was 1,203 of which 479 were permanent and 724 temporary.

The table below shows the number of cinemas in the State during the last six years:—

Year.	Permanent.	Touring.	Total.	Year.	Permanent.	Touring.	Total.
1945	236	131	367	1949	360	597	957
1946	250	160	410	1950	434	696	1,130
1947	270	286	556	1951	479	724	1,203
1948	308	491	799				

An increase of 100 per cent in the fees of inspection of 15 millimeter projectors has been recommended to Government and orders awaited.

The Proprietor, Minerva Talkies, Visakhapatnam and Vijayanagram, filed a suit against Government and claimed damages for the enforcement of rule 21 of the Madras Cinematograph Rules but later withdrew the same.

Exemption from rule 21 of the Madras Cinematograph Rules of existing cinemas not conforming to the rule subject to the condition that the owners effect alterations as suggested by the Chief Electrical Inspector to Government is under the consideration of the Government.

171. *Cinema Operator's licence.*—During the year, only one examination was held at Madras and out of 209 candidates who appeared 103 came out successful. A total number of 2,134 candidates have come out successful since the inception of the examination. Eighty-nine licences were issued during the year bringing the total number to 1,980.

172. *Administration of the Madras Electricity Duty Act, 1939.*—The actual revenue realized from this source since the promulgation of the Act is furnished below :—

Year.	Amount. RUPEES IN LAKHS.	Year.	Amount. RUPEES IN LAKHS.
1939-40	5.07	1945-46	8.04
1940-41	6.54	1946-47	9.83
1941-42	6.58	1947-48	10.66
1942-43	5.64	1948-49	11.27
1943-44	5.82	1949-50	12.68
1944-45	7.13	1950-51	12.35 *

* Revised Estimate.

The Tiruchirappalli-Srirangam and Madurai electrical undertakings topped the list of duty paying licensees as usual.

The total number of licensees paying duty during 1950-51 was 66 as against 70 in 1949-50. The following electrical undertakings taken over by Government on the dates noted against each ceased paying duty in 1950 :—

Name of undertaking.	Date of taking over by Government.
1 Neikuppai	8th December 1949.
2 Okkur	11th January 1950.
3 Gudiyattam	15th March 1950.

In addition to the above, the Narasaraopet undertaking also ceased paying duty in 1950-51.

173. *Expenditure and revenue.*—The total revenue realized by the Inspectorate under the different heads of account for 1950-51 is given below :—

	1950-51.	
	Revenue. RS.	Expenditure. RS.
1 From inspections under the Indian Electricity Act, Cinematograph Act, tests and miscellaneous receipts..	1,32,164	
2 From penalty for excess consumption of electricity ..	1,46,189	
3 From Madras Electricity Duty Act, 1939	11,95,224	
4 From use of Government water for generation of electricity	20,000	
5 Fees for audit of licensees' accounts by Government audit officer	7,783	
Total ..	15,01,360	2,04,122

The total expenditure during the year was Rs. 2,04,122.

174. *Nationalization.*—Under the Madras Electricity Supply Undertakings (Acquisition) Act, 1949, which came into force on 24th January 1950, the following undertakings have vested in the Government during the year under review :—

Name of licensee.	Date of taking over.
1 Proddatur	29th December 1950.
2 Alandur	25th January 1951.
3 Villivakkam	15th February 1951.
4 Narasaraopet	26th February 1951.
5 Hospet	16th March 1951.

Bellary and Hindupur Municipal undertakings were taken over by Government by mutual consent on 10th May and 30th June 1950.

One of the debenture holders of the Proddatur Electrical Undertaking petitioned to the High Court before acquisition of the undertaking by Government for winding up the company and for appointing a liquidator. The High Court ordered that inasmuch as the concern had been taken over by Government and the company being defunct the only thing that remained was the distribution of assets, viz., compensation and that this would only take place in the winding up proceedings. It was also ordered that this would in no way affect the action taken by the accredited representative under the Act.

Notices of acquisition declaring the vesting date under the Act have been served on the following undertakings :—

Number and name of undertaking.	Date of vesting in Government.
1 Ongole	16th April 1951. (Postponed from 30th December 1950 to 1st February 1951 and later to this date.)
2 Rajahmundry	1st July 1951. (Postponed from 10th January to 15th February 1951 and later to this date.)
3 Tiruvottiyur	1st April 1951.
4 Sembiam	Do.
5 Bodinayakanur	15th May 1951.
6 Coimbatore	Do.
7 Coonoor	Do.
8 Dindigul	Do.
9 Dharapuram	Do.
10 Kakinada	Do.
11 Karur	Do.
12 Kancheepuram	Do.
13 Kodaikanal	Do.
14 Madurai	Do.
15 Masulipatnam	Do.
16 Ootacamund	Do.
17 Pollachi	Do.
18 Palni	Do.
19 Periyakulam	Do.
20 Rameswaram	Do.
21 Sivakasi	Do.
22 Tiruvallur	Do.
23 Tiruppur	Do.
24 Tiruvannamalai	Do.
25 Tanjore	Do.
26 Tirupattur	Do.
27 Udampet	Do.
28 Vijayavada	Do.
29 Virudunagar	Do.
30 Wellington Cantonment	Do.
31 Udipi	1st June 1951.
32 Sriakulam	7th June 1951.
33 Salur-Parvatipur	15th June 1951.
34 Union Cochin	Do.
35 West Ramanathapuram	21st September 1951.
36 Adoni	25th September 1951.
37 Nellore	28th September 1951.

Statements are given below showing comparative particulars of operation and maintenance expenses, revenue, etc., before and after nationalization of the Cuddapah and Anantapur Electrical undertakings which are the only two undertakings having independent generating stations taken over by Government under the Acquisition Act, 1949 :—

(1) *Cuddapah Electrical Undertaking.*

	1948-49.				
	1947-48.	From 1st April 1948 up to the date of taking over, i.e., 17th November 1948.	From date of taking over, i.e., 18th November 1948 to 31st March 1949.	1949-50.	1950-51.
	RS.	RS.	RS.	RS.	RS.
1 Gross Revenue ..	33,344	*	28,003	1,01,663	1,40,248
2 Operation and maintenance ..	58,426	*	38,455	1,23,052	1,28,806
3 Depreciation Reserve Fund ..	..	..	..	..	10,000
4 Special Reserve Fund ..	..	..	..	..	4,100
5 Total working expenses ..	58,426	*	38,455	1,23,052	1,42,906
6 Net Revenue ..	—31,241	*	—10,452	—21,388	—11,442

* Accounts not received.

(2) *Anantapur Electrical Undertaking.*

	1949-50.			
	1948-49.	From 1st April 1949 up to the date of taking over, i.e., 14th July 1949.	From date of taking over, i.e., 15th July 1949 to 31st March 1950.	1950-51.
	RS.	RS.	RS.	RS.
1 Gross Revenue ..	58,737	15,920	39,909	70,638
2 Operation and maintenance ..	50,317	16,807	49,921	78,477
3 Depreciation Reserve Fund ..	..	..	..	..
4 Special Reserve Fund ..	..	..	..	..
5 Total working expenses ..	50,317	16,807	49,921	78,477
6 Net Revenue ..	8,420	—881	—10,018	—7,839

The compensation payable for both the above undertakings is not yet finally settled and only part compensation of Rs. 1 lakh and Rs. 18,000, respectively, has been paid as advance compensation.

The same tariff which had been in operation at the time of acquisition of the above two undertakings is being continued even after taking over by Government.

175. *Accidents.*—Return of electrical accident in the Madras State during 1950-51—

	Departmental employees.			Non-departmental employees.			Consumer's equipment.		Total.
	Unauthorized working.	Non-compliance of safety rules.	Other causes.	Snapped conductors.	Inquisitive climbing.	Other causes.	Careless handling.	Faulty equipment wiring.	
Government Systems—Fatal—									
Pykara Electricity System ..	..	..	2	1	4	..	1	1	9
Mettur System ..	..	..	..	..	11	..	..	..	15
Papanasam System ..	..	..	..	..	5	..	..	..	5
Madras Electricity System ..	..	..	..	..	1	..	..	..	1
Andhra Power System ..	..	1	..	..	..	..	..	..	1
Non-fatal—									
Pykara System ..	..	24	9	..	13	9	..	..	18
Mettur System ..	..	..	..	..	6	..	2	..	45
Papanasam System ..	1	1	..	5	..	..	..	..	13
Madras Electricity System ..	1	..	..	..	1	..	..	1	5
Andhra Power System ..	..	3	3	1	17	..	..	..	24
Company licensees—									
Non-fatal ..	1	..	6	8	3	7	1	..	26
Fatal ..	..	1	..	..	3	1	1	1	7
Local Authorities Undertakings—									
Non-fatal ..	..	..	3	1	1	3	..	..	8
Fatal ..	1	..	..	..	..	1	..	..	2
Non-licensee Area ..	..	..	..	..	..	..	..	..	..
Total ..									189

176. *Staff.*—Sri S. R. Krishnamurthi, Chief Construction Engineer (Electricity), was on leave for four months from 1st August 1950. During this period, Sri P. M. Chengappa, Superintending Engineer, Machkund, acted as Chief Construction Engineer (Electricity) and Sri G. Venkataraman was Superintending Engineer, Machkund. Sri P. M. Chengappa also held additional charge of General Construction Circle. Sri A. Venkateswaran, Superintending Engineer, Moyar, was on leave for six weeks from 16th August 1950 and during this period Sri H. Raghavendra Rao, Executive Engineer, held additional charge of the post of Superintending Engineer, Moyar.

Sri L. Ekambaran, Superintending Engineer, Transmission Line Construction (North), was on leave for two months from 9th September 1950 and during this period Sri B. R. Somayajulu, Chief Operation Engineer (North), held additional charge of the Transmission Line Construction Circle. Sri P. Natesa Ayyar, Special Officer, Hydro-Electric Surveys, relinquished office on the expiry of the sanctioned term of his re-employment on 6th October 1950 afternoon.

Sri N. R. Narasimhamurthi, Chief Operation Engineer (South), was on leave for three months from 13th February 1951. Sri M. B. Kandaswami, Superintending Engineer, Pykara System, was promoted and posted in his place as Chief Operation Engineer (South). C. E. Prager, Divisional Electrical Engineer, Coimbatore, was promoted and posted as Superintending Engineer, Pykara System, in the place of Sri M. B. Kandaswami.

The following promotions were made during the year under review :—

Name of officer.	Post to which promoted.
1 Mr. J. H. Le Merle ..	Divisional Engineer (Electrical).
2 Sri K. Padmanaban ..	Do.
3 „ H. S. Krishna Iyengar ..	Do.
4 Janab S. Muhammad Ali ..	Do.
5 Sri R. Ganesan ..	Do.
6 „ M. P. George ..	Do.
7 „ O. Taimmiah ..	Do.
8 „ G. Thirunavukkarasu ..	Executive Engineer (Civil).
9 „ C. R. Parthasarathy ..	Do.
10 „ C. V. Rangaswami ..	Do.
11 „ L. S. Vaidyanathan ..	Do.

The following officers retired from Government service :—

Name.	Date of retirement.
1 Sri M. Viswanathan, Assistant Engineer (Mechanical) ..	12th May 1950.
2 Sri T. Mahalingam, Assistant Engineer (Civil) ..	20th May 1950.
3 Sri S. P. Shanmugam, Examiner of Stores Accounts ..	22nd December 1950.

Sri S. P. Shanmugham has been re-employed as Examiner of Stores Accounts for one year from the date of his retirement.

Sri E. K. Menon, Assistant Engineer (Electrical), was removed from service with effect from 21st November 1950.

177. *Acknowledgment.*—The thanks of the department are due to the Director-General, India Stores Department, London, Central Electricity Commission, Simla, and other control authorities for their valued help during the year. Thanks are also due to the Posts and Telegraphs Department and the several contracting firms who assisted this department in its various activities.

Appreciation of the hard and willing work put in by the whole staff of the department notwithstanding difficult living conditions is hereby recorded.

G. SUNDARAM,
Chief Engineer for Electricity.

APPENDICES.

APPENDIX A.

List of construction works undertaken—81. A.—Capital—with expenditure to end of March 1951 (preliminary).

Names of schemes.	Expenditure for 1950-51 to end of March 1951 (preliminary).	Total expenditure against estimate.
	RS.	RS.
I. Hydro-Electric Schemes—		
(a) Pykara Hydro-Electric Scheme	41,28,317	5,02,51,312
(b) Mettur Hydro-Electric Scheme	16,99,633	3,86,34,924
(c) Papanasam Hydro-Electric Scheme	25,85,889	2,57,04,207
(d) Bellary Hydro-Electric Scheme	1,33,714	1,43,744
II. Thermal Electric Schemes—		
(a) Visakhapatnam Scheme	5,62,816	46,13,559
(b) Vijayavada Scheme	(—) 9,40,449	78,09,647
(c) Kakinada Scheme	3,48,256	20,18,351
(d) Madras Thermal Scheme	1,03,19,796	2,92,27,784
(e) Anantapur Scheme	2,05,672	2,20,992
(f) Sandur Scheme	25,254	25,388
(g) Rajahmundry Scheme	3,59,821	7,95,382
(h) Proddatur Scheme	1,07,199	1,07,199
(i) Ongole Scheme	1,441	1,473
(j) Narasaraopet Scheme	253	253
III. Hydro-Electric Schemes—		
(a) Moyar Scheme	72,54,615	2,68,70,158
(b) Pykara Plant III Stage	53,44,858	1,22,98,806
(c) Kollegal Scheme	26,427	2,10,288
(d) 66 K.V. Extension and sub-station, Pollachi	1,198	1,198
(e) Madras-Mettur Inter-connection	2,14,723	58,01,096
(f) Extension at Kuppan	46,389	8,20,862
(g) Erode-Trichy-Dalmia Extensions	18,11,954	20,23,665
(h) Erode-Salem Extension	10,66,226	13,92,090
(i) Mettur Workshop Extensions	4,16,388	8,72,858
(j) Chingleput-Kancheepuram-Arkonam Extensions	4,43,478	7,61,402
(k) Tanjore-Mayavaram-Chidambaram	9,61,148	10,02,222
(l) Papanasam IV Unit Extensions	(—) 10,87,226	53,65,460
(m) Madurai Thermal Scheme	16,98,619	57,61,258
(n) Madurai-Tirumangalam-Rajapalayam-Tenkasi Extensions	4,09,825	4,96,785
(p) Madurai-Sivaganga Extensions	23,712	28,883
(q) Papanasam-Tirunelveli-Kayattar Extensions	3,03,693	7,72,878
(r) Machkund Scheme	68,62,564	1,97,40,660
(s) Ceded Districts Scheme	12,31,076	59,91,496
(t) Hindupur Distribution Scheme	(—) 73,020	1,05,590
(v) South Kanara Distribution Scheme	17,471	17,471
(x) Pykara-Coimbatore-Madurai 110 K.V. Extensions	57	57
(z) Tungabhadra Scheme	40,356	40,356
IV. Thermo-Electric Schemes—		
(a) Visakhapatnam Power House Extension	2,59,564	21,17,031
(b) Madras Power Station Extension	56,88,167	1,68,43,160
(c) Rajahmundry-Samalkot Extension	21,58,296	1,29,53,600
(d) Nellore Thermal Scheme	13,88,795	48,83,890
(e) West Godavari Electric Scheme	12,31,488	14,97,978
(f) Tadpatri Scheme	1,00,873	1,03,048
(g) Nandyal Scheme	1,32,670	1,38,386
(h) Cuddapah Scheme	1,22,824	5,28,045
(i) Kurnool Scheme	47,474	3,80,349
(j) Madanapalle Scheme	3	3
Total ..	5,76,87,227	28,90,74,244

APPENDICES

APPENDIX B.

Budget provision for Capital Works in 1951-52.

Serial number and particulars.

Budget estimate for 1951-52.
Rs.

81. A. CAPITAL OUTLAY ON ELECTRICITY SCHEMES.

Hydro-Electric Schemes (excluding Post-war Reconstruction) —	
A. Pykara Hydro-Electric Scheme—	
1 Pykara Hydro-Electric Scheme	9,85,300
2 Distribution of power in Pykara System	41,16,800
3 Supply of power to West Coast	4,97,100
4 Supply of power to Nilambur and Manjeri Extensions	1,84,700
5 Supply of power to Tirur and Ponnani in Malabar District	6,72,400
6 Supply of power to Sadayambalayam and seven other villages in Dharapuram taluk	1,12,100
7 Pension charges	29,700
8 Suspense	(—) 5,75,500
Total, 81. A. I. A. Pykara Hydro-Electric Scheme ..	60,22,600
B. Mettur Hydro-Electric Scheme—	
1 Mettur Main Scheme	68,800
2 Erode-Tiruchirappalli Extensions	33,700
3 Supply of power to Arkonam	100
4 Distribution of power in Mettur System	33,24,000
5 Minor works	28,100
6 Construction of additional quarters at Mettur Dam	17,800
7 Extension of supply to Veerapandi firka	11,900
8 Extension of supply to Karambuliyur firka	3,12,800
9 Extension of supply to Dandikkuppam	100
10 Suspense	6,45,900
11 Acquisition of Gudiyattam Electrical undertaking	1,000
12 Pension charges	13,800
Total, 81. A. I. B. Mettur Hydro-Electric Scheme ..	44,58,000
C. Papanasam Hydro-Electric Scheme—	
1 Papanasam Hydro-Thermal Project	1,85,600
2 Distribution of power in Papanasam System	16,16,400
3 Supply of power to Travancore	14,500
4 Construction of Madurai-Koilpatti Second Circuit line	1,100
5 Construction of quarters at Kayathar and other places	56,600
6 Supply of power to Chinnamanaiyachi and other villages	100
7 Supply of power to Sholavandan	500
8 Supply of power to Shankaranagar	100
9 Supply of power to Kadayanalur	72,900
10 Supply of power to Venkatasamudram	100
11 Supply of power to Mandapam from Ramanathapuram	2,66,400
12 Supply of power to Kunnathur, Kallupatti, etc. villages	1,11,400
13 Pension charges	20,000
14 Suspense	(—) 43,000
Total—81. A. I. C. Papanasam Hydro-Electric Scheme ..	23,03,600
D. Bellary Scheme	1,35,500
E. Hospet Scheme	300
A. Pykara Hydro-Electric Scheme—(Post-war reconstruction)—	
1 Moyar Scheme	51,14,300
Suspense	— 52,900
Total ..	50,61,400
2 Pykara Plant Extensions III final stage	70,09,800
Suspense	— 1,96,100
Total ..	68,13,700

APPENDIX B—cont.

Budget provision for Capital Works in 1951-52—cont.

Serial number and particulars.	Budget estimate for 1951-52. RS.
A. Pykara Hydro-Electric Scheme (Post war Reconstruction)—cont.	
3 Construction of third Circuit line from Pykara to Coimbatore and Coimbatore to Madurai	25,63,000
4 Kollegal Hydro-Electric Scheme	47,500
5 66 KV Extension and construction of a sub-station at Pollachi	2,84,700
6 Supply of power to South Kanara District	5,91,200
B. Mettur Hydro-Electric Scheme—(Post-War Reconstruction)—	
1 Madras-Mettur Inter-connection Scheme	39,65,500
Suspense	(—) 5,76,800
Total ..	33,88,700
2 Extension to Kuppam	22,400
3 Extension of supply from Erode to Tiruchirappalli-Dalmiapuram. Suspense	8,67,000
Total ..	2,78,700
Total ..	11,41,700
4 66/110 KV Extensions from Erode to Salem	3,68,100
Suspense	4,100
Total ..	3,72,200
5 Mettur Workshop Expansion Scheme	3,43,900
6 Chingleput-Kancheepuram-Arkonam Extensions	1,74,400
7 Tanjore-Chidambaram-Mayuram Extension Scheme	12,20,600
Suspense	(—) 1,81,400
Total ..	10,39,100
C. Papanasam Hydro-Electric Scheme—(Post-War Reconstruction)—	
1 Papanasam IV Unit Extension	99,600
Suspense	28,800
Total ..	1,28,400
2 Mathurai Thermal Scheme	39,50,700
Suspense	100
Total ..	39,50,800
3 Mathurai-Thirumangalam-Rajapalayam-Tenkasi 66 K.V. lines and sub-stations	22,47,800
Suspense	(—) 1,17,100
Total ..	21,30,700
4 Mathurai-Sivaganga 66 K.V. lines including thermal equipment	4,89,600
Suspense	(—) 1,18,400
Total ..	3,71,200
5 66 K.V. Extension from Papanasam to Tirunelveli and Kayathar	9,08,700
Suspense	(—) 1,72,800
Total ..	7,35,900
Other Suspense Accounts	(—) 1,81,800
Total ..	71,35,200

APPENDIX B—cont.

Budget provision for Capital Works in 1951-52—cont.

Serial number and particulars.	Budget estimate for 1951-52. RS.
D. Machkund Hydro-Electric Scheme..	4,82,81,900
Suspense	(—) 64,55,100
30 per cent Orissa share	(—) 66,01,900
Madras Government share ..	3,52,24,900
E. Ceded Districts Scheme—	
1 Ceded Districts Main Scheme	4,29,800
2 Extension of supply to Kottur from Kudligi sub-station	73,200
3 Extension of supply to Guntakkal	73,100
4 Distribution of power in Ceded Districts area	2,80,600
5 11/33 KV line from Bellary to Rayadurg	3,34,100
Pension charges	6,400
Suspense	18,500
Total ..	12,15,700
F. Hindupur Distribution Scheme ..	74,400
G. Thungabhadra Hydro-Electric Scheme ..	10,76,100
II. Thermo-Electric Schemes (excluding Post-war Reconstruction)—	
A. Visakhapatnam Thermal Scheme—	
1 Visakhapatnam Thermal Station	100
2 Distribution of power in Visakhapatnam area	4,01,500
3 Third Generating set at Visakhapatnam	100
4 Installation of 2 Nos. 600 K.W. Diesel sets at Visakhapatnam Power House	1,700
5 Pension charges	3,400
Total ..	4,08,800
B. Vijayavada Thermal Scheme—	
1 Vijayavada Thermal Station	22,400
2 Distribution of power in Vijayavada area	5,20,300
3 Installation of auxiliary set at Vijayavada Power House	1,61,200
4 Guntur-Ongole Extension	4,72,000
5 Supply of power to Dondulur Firka	4,22,200
6 Supply to Nuttakhiah villages	2,00,000
7 Pension charges	7,000
8 Suspense	3,50,000
Total ..	21,55,100
C. Kakinada Thermal Scheme—	
1 Kakinada Thermal Station	100
2 Distribution of power in Kakinada area	2,800
3 Installation of additional set at Kakinada Power House	8,60,400
4 Pension charges	4,600
Total ..	5,67,900
D. Madras Thermal Scheme—	
1 Madras Thermal Station	300
2 Distribution of power in Madras area	42,01,400
3 Suspense	1,44,100
4 Pension charges	33,700
Total ..	43,79,500
E. Anantapur scheme—	
1 Anantapur Thermal Scheme	1,86,000
2 Distribution of power in Anantapur area	1,00,000
3 Pension charges	1,500
Total ..	2,87,500

APPENDIX B—cont.

Budget provision for Capital Works in 1951-52—cont.

Serial number and particulars.	Budget estimate for 1951-52. RS.
F. Rajahmundry Scheme—	
1 Rajahmundry Thermal Station	600
2 Rajahmundry Firka Scheme	2,29,800
3 Pension charges	2,700
Total ..	2,33,100
G. Mangalore Thermal Scheme	47,700
H. Sandur Thermal Scheme	47,700
II. Thermo-Electric Schemes (Post-war Reconstruction)—	
A. Visakhapatnam Power-house Extensions	4,92,700
B. Madras Power Station Extension	1,26,66,900
Suspense	(—) 25,54,200
Total ..	1,01,12,700
C. Rajahmundry-Samalkot Extension Schemes	41,22,600
Suspense	(—) 11,30,700
Total ..	29,91,900
D. Nellore Thermal Scheme	11,66,100
Suspense	(—) 1,68,200
Total ..	9,97,900
E. West Godavari Electrification Scheme	21,27,000
F. Tadpatri Scheme	1,75,200
G. Nandyal Scheme	4,99,300
H. Cuddapah Thermal Schemes—	
1 Cuddapah Thermal Station	48,200
2 Distribution of power in Cuddapah area	37,300
3 Pension charges	500
Total ..	86,000
J. Kurnool Scheme—	
1 Kurnool Thermal Station	1,68,900
2 Distribution of power in Kurnool area	22,400
3 Installation of one 267 KW. set at Kurnool Power-house	16,200
4 Pension charges	1,100
Total ..	2,08,600
K. Madanapalle Thermal Scheme	6,10,100
SI. A. CAPITAL OUTLAY ON ELECTRICITY SCHEMES—I. HYDRO-ELECTRIC SCHEME (EXCLUDING POST-WAR RECONSTRUCTION).	
A. Pykara System	60,22,600
B. Mettur System	44,53,000
C. Papanasam System	23,03,600
D. Bellary Scheme	1,35,500
E. Hospet Scheme	300
Total, I. Hydro-Electric Scheme (excluding Post-war Reconstruction) ..	1,29,20,000
Lump-sum for payment of compensation	54,00,000
..	1,83,20,000

APPENDIX B—cont.

Budget provision for Capital Works in 1951-52—cont.

Serial number and Particulars.	Budget estimate for 1951-52. RS.
Hydro-Electric Scheme (Post-war Reconstruction)—	
A. Pykara Hydro-Electric Scheme—	
1 Moyar Hydro-Electric Scheme	50,61,400
2 Pykara Plant Extension on III Stage	68,13,700
3 Construction of third circuit line from Pykara to Coimbatore and Coimbatore to Madurai	25,63,000
4 Kollegal Hydro Electric Scheme	47,500
5 66 K.V. Extension and construction of sub-station at Pollachi	2,84,700
6 Supply of to South Kanara district	5,91,200
Total, A. Pykara Hydro-Electric Scheme ..	1,53,61,500
B. Mettur Hydro-Electric Scheme—	
1 Madras-Mettur Inter-connection Scheme	33,88,700
2 Extension to Kuppam	22,400
3 Extension of supply from Erode to Tiruchirappalli-Dalmianagar	11,41,700
4 66/110 K.V. extension from Erode to Salem	3,72,200
5 Mettur Workshop Expansion Scheme	3,43,900
6 Chingleput-Kancheepuram-Arkonam extensions	1,74,400
7 Tanjore-Chidambaram-Mayuram extensions	10,39,100
Total, B. Mettur Hydro-Electric Scheme ..	64,82,400
C. Papanasam Hydro-Electric Scheme—	
1 Papanasam IV unit extensions	1,28,400
2 Madurai Thermal Scheme	39,50,800
3 Madurai-Tirumangalam-Tenkasi 66 K.V. line	21,30,700
4 Madurai-Sivaganga 66 K.V. line	3,71,200
5 66 K.V. Extension from Papanasam-Tirunelveli to Kayattar	7,35,900
C. Papanasam Hydro-Electric Scheme ..	73,17,000
Other suspense account	(—) 1,81,800
Total, C. Papanasam Hydro-Electric Scheme ..	71,35,200
D. Machkund Hydro-Electric Scheme	3,52,24,900
E. Ceded District Scheme	12,15,700
F. Hindupur Distribution Scheme	74,400
G. Tungabhadra Hydro-Electric Scheme	10,76,100
Total, Hydro-Electric Scheme (excluding Post-war Reconstruction) ..	1,83,20,000
Total, Hydro-Electric Scheme (Post-war Reconstruction) ..	6,65,70,200
Deduct L.S. deductions	(—) 1,54,28,100
Grand total, Hydro-Electric Scheme ..	6,94,62,100
I. Thermo-Electric Schemes (excluding Post-war Reconstruction)—	
A. Visakhapatnam Thermal Scheme	4,06,800
B. Vijayavada Thermal Scheme	21,55,100
C. Kakinada Thermal Scheme	5,67,900
D. Madras Thermal Scheme	43,79,500
E. Anantapur Thermal Scheme	2,87,500
F. Rajahmundry Thermal Scheme	2,33,100
G. Mangalore	47,700
H. Sandur	47,700
Total, II. Thermo-Electric Schemes (excluding Post-war Reconstruction) ..	80,79,600
Post-war Reconstruction)—	
A. Visakhapatnam Power House extensions	4,92,700
B. Madras Power Station extensions	1,01,12,700
C. Rajahmundry-Samalkot extensions	29,91,900
D. Nellore Thermal Scheme	9,97,900
E. West Godavari Electrification Scheme	21,27,000

APPENDIX B—cont.

Budget provision for Capital Works in 1951-52—cont.

Serial number and particulars.	Budget estimate for 1951-52. RS.
(Post-war Reconstruction)—cont.	
F. Tadpatri Scheme	1,75,200
G. Nandyal Scheme	4,99,300
H. Cuddapah Thermal Scheme	86,000
J. Kurnool Thermal Scheme	2,08,600
K. Madanapalle Thermal Scheme	6,10,100
Total ..	1,83,01,400
L.S. deductions for probable savings ..	—21,11,900
Total ..	1,61,89,500
Total, Thermo-Electric Scheme ..	2,42,69,100
Grand total—Capital outlay on Electricity Schemes ..	9,37,31,200

APPENDIX C.

Details of establishment charges by this Department and fee earned during 1950-51 and estimated for 1951-52.

	Expenditure during 1950-51. RS.	Budget for 1951-52. RS.
1. Pykara Hydro-Electric Scheme—		
Salaries, allowances and other charges	7,91,664	8,62,500
Add charges payable to Government, Departments and others ..	96,709	1,87,400
Total ..	8,88,373	10,49,900
Less charges recoverable from Government, Departments and others	2,69,796	5,35,300
Total ..	6,18,577	5,14,600
Operation and Maintenance expenses excluding suspense ..	32,60,470	34,86,600
Total ..	38,79,047	40,01,200
Gross Revenue ..	91,90,610	1,02,50,000
Net surplus ..	53,11,563	62,48,800
2. Kollegal Hydro-Electric Scheme—		
Salaries, allowances and other charges	8,379	9,200
Operation and Maintenance expenses	17,956	18,200
Total ..	26,335	27,400
Gross Revenue ..	42,452	47,300
Net surplus ..	16,117	19,900
3. Mettur Hydro-Electric Scheme—		
Salaries, allowances and other charges	8,92,657	9,66,100
Add charges payable to Government, Departments and others ..	75,104	1,45,100
Total ..	9,67,761	11,11,200
Less charges recoverable from Government, Departments and others	2,16,331	4,93,700
Total ..	7,51,430	6,17,500
Operation and Maintenance expenses excluding suspense ..	31,47,303	36,49,500
Total ..	38,98,733	42,67,000
Revenue ..	83,56,706	96,05,000
Net surplus ..	44,57,973	53,38,000

APPENDIX C—cont.

Details of establishment charges by this Department and fee earned during 1950-51 and estimated for 1951-52—cont.

	Expenditure during 1950-51. RS.	Budget for 1951-52. RS.
4. Papanasam Hydro-Electric Scheme—		
Salaries and allowances	5,25,369	5,14,900
Add charges payable to Government, Departments and others ..	37,051	53,900
Total ..	5,62,420	5,68,800
Less charges recoverable from Government, Departments and others	1,46,403	2,10,700
Net salaries and allowances	4,16,017	3,58,100
Operation and Maintenance expenses excluding suspense ..	14,97,434	24,22,300
Total ..	19,13,451	27,80,400
Revenue ..	40,85,840	42,49,700
Net surplus ..	21,72,389	14,69,300
5. Madras Thermal Scheme—		
Salaries and allowances	2,73,273	8,12,200
Add charges payable to Government, Departments and others	1,25,438	1,50,300
Total ..	3,98,712	9,62,500
Less charges recoverable from Government, Departments and others	2,91,503	6,04,700
Operation and Maintenance expenses excluding suspense ..	1,07,209	3,57,800
Total ..	81,51,142	87,37,700
Revenue ..	1,16,01,754	1,20,47,300
Surplus ..	34,50,612	33,09,600
6. Visakhapatnam Scheme—		
Salaries and allowances and other charges	1,56,384	1,53,100
Add charges payable to Government Departments and others	10,607	16,300
Total ..	1,66,991	1,69,400
Less charges recoverable from Government Departments and others	30,150	43,400
Operation and Maintenance expenses excluding suspense ..	1,36,841	1,23,000
Total ..	8,84,097	9,06,100
Gross Revenue ..	10,20,938	10,32,100
Net surplus ..	11,42,843	16,46,800
Net surplus ..	1,21,905	6,14,700

APPENDICES

APPENDIX C—cont.

Details of establishment charges by this Department and fee earned during 1950-51 and estimated for 1951-52—cont.

	Expenditure during 1950-51.	Budget for 1951-52.
	RS.	RS.
7. Vijayavada Scheme—		
Salaries, allowances and other charges	1,82,500	1,73,100
Add charges payable to Government Departments and others	13,486	22,900
Total	1,95,986	1,96,000
Less charges recoverable from Government Departments and others	47,964	50,000
	1,48,022	1,46,000
Operation and Maintenance expenses excluding suspense	13,45,736	15,94,100
Total	14,93,758	17,40,100
Gross Revenue	15,03,241	18,36,200
Net surplus	9,483	96,100
8. Kakinada Scheme—		
Salaries, allowances and other charges	50,705	49,300
Add charges payable to Government Departments and others	4,036	6,300
Total	54,741	55,600
Less charges recoverable from Government Departments and others	23,058	46,400
	31,683	9,200
Operation and Maintenance expenses excluding suspense	4,10,503	3,65,900
Total	4,42,186	3,75,100
Gross Revenue	4,44,333	5,05,200
Net surplus	2,147	1,30,100
9. Kurnool Scheme—		
Salaries, allowances and other charges	23,546	22,400
Add charges payable to Government Departments and others	1,350	2,400
Total	24,896	24,800
Less charges recoverable from Government Departments and others	1,757	11,000
	23,139	13,800
Operation and Maintenance expenses excluding suspense	1,22,423	1,20,800
Total	1,45,562	1,34,600
Gross Revenue	1,48,669	1,89,600
Net surplus	3,107	55,000

APPENDICES

73

APPENDIX C—cont.

Details of establishment charges by this Department and fee earned during 1950-51 and estimated for 1951-52—cont.

	Expenditure during 1950-51.	Budget for 1951-52.
	RS.	RS.
10. Cuddapah Scheme—		
Salaries, allowances and other charges	20,367	20,100
Add charges payable to Government Departments and others	1,331	2,200
Total	21,698	22,300
Less charges recoverable from Government Departments and others	2,658	9,200
	19,040	13,100
Operation and Maintenance expenses excluding suspense	1,18,820	97,000
Total	1,37,860	1,10,100
Gross Revenue	1,40,118	1,78,200
Net surplus	2,258	68,100
11. Anantapur Scheme—		
Salaries, allowances and other charges	18,309	21,500
Add charges payable to Government Departments and others	648	1,100
	18,957	22,600
Less charges recoverable from Government Departments and others	7,942	14,400
	11,015	8,200
Operation and Maintenance expenses excluding suspense	66,061	68,500
Total	77,076	76,700
Gross Revenue	70,799	90,000
Net surplus	(—) 6,277	13,300
12. Sandur Scheme—		
Salaries, allowances and other charges	2,924	5,600
Add charges payable to Government Departments and others	81	200
Total	3,005	5,800
Less charges recoverable from Government Departments and others	215	2,100
	2,790	3,700
Operation and Maintenance expenses excluding suspense	18,501	25,100
Total	21,291	28,800
Gross Revenue	11,318	12,200
Surplus	(—) 9,973	(—) 16,600

APPENDIX C—cont.

Details of establishment charges by this Department and fee earned during 1950-51 and estimated for 1951-52—cont.

	Expenditure during 1950-51.	Budget for 1951-52.
	RS.	RS.
13. Rajahmundry Scheme—		
Salaries, allowances, and other charges	28,984	28,300
Add charges payable to Government Departments and others.	2,601	3,200
	<u>31,585</u>	<u>31,500</u>
Less charges recoverable from Government Departments and others	1,499	25,500
	<u>30,086</u>	<u>6,000</u>
Operation and Maintenance expenses excluding suspense ..	2,11,398	1,58,200
	<u>2,41,484</u>	<u>1,64,200</u>
Gross Revenue ..	2,58,276	2,51,500
Net surplus ..	<u>16,792</u>	<u>90,300</u>
14. Caded Districts Scheme—		
Salaries, allowances, and other charges	49,584	36,600
Add charges payable to Government Departments and others	2,457	3,600
	<u>52,041</u>	<u>40,200</u>
Less charges recoverable from Government Departments and others	12,043	26,500
	<u>39,998</u>	<u>13,700</u>
Operation and Maintenance expenses excluding suspense.	2,46,763	2,10,900
	<u>2,86,761</u>	<u>2,24,600</u>
Gross Revenue ..	3,27,440	22,86,400
Net surplus ..	<u>40,679</u>	<u>61,800</u>
15. Hindupur Scheme—		
Salaries, allowances and other charges	2,115	9,300
Add charges payable to Government Departments and others	628	300
	<u>2,743</u>	<u>9,600</u>
Operation and Maintenance expenses excluding suspense ..	11,817	70,200
	<u>14,560</u>	<u>79,800</u>
Gross Revenue ..	27,554	24,800
Net surplus ..	<u>12,994</u>	<u>(—) 55,000</u>
16. Nellore Scheme—		
Establishment and other charges	..	23,500
Add charges payable to Government Department, etc. ..	..	1,900
	..	<u>25,400</u>
Less charges recoverable from Government Departments, etc.	..	..

APPENDIX C—cont.

Details of establishment charges by this Department and fee earned during 1950-51 and estimated for 1951-52—cont.

	Expenditure during 1950-51.	Budget for 1951-52.
	RS.	RS.
Operation and Maintenance expenses excluding suspense.	..	25,400
	..	<u>7,19,600</u>
Gross Revenue ..	..	7,45,000
Net surplus ..	..	<u>1,51,800</u>
	..	<u>(—) 5,93,200</u>
	1950-51.	
	Revenue.	Expenditure.
	RS.	RS.
Chief Electrical Inspector to Government—		
1. From inspections under the Indian Electricity Act, Cinematograph Act, test and miscellaneous receipts	1,32,164	..
2. From penalty for excess consumption of electricity	1,46,189	..
3. From the Madras Electricity Duty Act, 1939 ..	11,95,224	..
4. From use of Government water for generation of electricity	20,000	..
5. Fees for audit of licensees' accounts by Government Audit Officers	7,783	..
Total ..	<u>15,01,360</u>	<u>2,04,122</u>

APPENDIX D-1.

Licensee electric supply undertakings in service.

(a) Local authorities.	(a) Local authorities—cont.	(b) Companies—cont.
1 Vijayavada	27 Virudhunagar	22 Narasaraopet
2 Bodinayakanur	28 Wellington (Cantonment)	23 Nagapattinam
3 Kakinada		24 Ongole
4 Coimbatore	(b) Companies.	25 Palghat
5 Kancheepuram	1 Adoni	26 Rajahmundry
6 Coonoor	2 Ambur-Vaniyambadi	27 South Arcot
7 Dindigul	3 Anakapalle	28 Salem-Erode
8 Dharapuram	4 British Cochin	29 Srivilliputtur
9 Karur	5 Bobbili	30 Salur-Parvatipur
10 Kodalkanal	6 Kozhikode	31 Tiruchirappalli-Srirangam
11 Masulipatnam	7 Chingleput	32 Tirumalai-Tirupati
12 Madurai	8 Chittoor	33 Tiruvallur-Tuticorin-Palayamkotta
13 Ootacamund	9 Srikulam	34 Tellicherry-Cannanore
14 Palni	10 Devakottai	35 Udipi
15 Pollachi	11 Eluru	36 Visakhapatnam
16 Periyakulam	12 East Ramanathapuram	37 Vellore
17 Rameswaram } Sanctioned under	13 Guntur	38 Pudukkottai-Electric Supply Corporation.
18 Sembium } Section 23.	14 Gudivada	39 Pudukkottai State Electric Supply Corporation.
19 Sivakasi	15 Kanadukathan	40 Ramachandrapuram
20 Tiruppur	16 Karalkudi	41 Ponnammavathy
21 Tanjore	17 Kumbakonam	42 Kanara Ceramics, Limited, Kasaragod (Section 23)
22 Tiruvottiyur	18 Mangalore	43 East Coast Electric Supply Corporation.
23 Tiruvannamalai	19 Mayuram-Mannargudi-Tiruvannamalai	
24 Tiruvallur	20 Nattarasankottai	
25 Tirupattur	21 Nellore	
26 Udumalpet		

APPENDIX D-2.

Licensees under construction.

Nil.

APPENDIX D-3.

New applications for licences received.

Nil.

APPENDICES

APPENDIX D-4.

List of undertaking put into service.

East Godavari Electric Licence.

APPENDIX D-5.

List of licensees who reduced the tariffs.

- (i) Tirunelveli-Tuticorin Electric Supply Corporation.
 (ii) Pudukottai Electric Supply Corporation.
 (iii) Mangalore Electric Supply Company.
 (iv) Kodaikanal Municipality.

APPENDIX D-6.

List of licensees who increased the tariffs.

1. Karaikudi.

APPENDIX D-7.

List of licensees charging more than 6 annas per unit for lighting and fans.

1. Adoni.

APPENDIX E.

Total capacities of plants installed in electric supply undertakings in service in the State.

Serial number and name of undertaking.	Total installed capacity of plant in generating station.	Details of plant installed.	Type of prime mover.	Voltage of generation.
(1)	(2)	(3)	(4)	(5)
<i>I.—Licensee undertakings.</i>				
1 Srikakulam ..	150.75 KVA.	1 × 112 + 1 × 20 KVA. + 1 × 18.75 KVA.	Oil engine	400 V. (A.C.).
2 Mangalore ..	1605.5 KVA.	3 × 312.5 KVA. + 2 × 334 KVA.	Do.	3.3 KV. (A.C.).
3 Narasaraopet ..	200 KVA.	2 × 100 KVA.	Do.	420/243 V. (A.C.).
4 Ongole ..	118.6 KVA.	1 × 66.6 + 1 × 50 KVA.	Do.	3.3 KV. and 400 V. (A.C.).
5 Rajahmundry ..	560 KVA. + 75 KW.	2 × 133 + 1 × 294 KVA. + 1 × 75 KW.	Do.	3.3 KV. (A.C.).
6 Salur-Parvatipur.	25 KVA.	1 × 25 KVA.	Do.	400/440 V. (A.C.).
7 Udipl ..	184 KVA.	1 × 144 + 1 × 40 KVA.	Do.	400 V. (A.C.).
Total ..	2,841.85 KVA. 75.90 KW.			

APPENDICES

APPENDIX E—cont.

Total capacities of plants installed in electric supply undertakings in service in the State—cont.

Serial number and name of undertaking.	Total installed capacity of plant in generating station.	Details of plant installed.	Type of prime mover.	Voltage of generation.
(1)	(2)	(3)	(4)	(5)
<i>II.—Government undertakings.</i>				
1 Pykara ..	48,430 KVA.	3 × 7,810 KVA. + 2 × 12,500	Pelton wheel	11 K.V.A.
2 Mettur ..	50,000	4 × 12,500	Reaction turbine	11 K.V.
3 Papanasam system: (a) Papanasam Power House	21,750	3 × 7,250	Do.	11 K.V.
(b) Madurai Thermal station.	5,000	1 × 5,000	Steam turbine.	11 K.V.
4 Madras system.	60,000	2 × 1,875 KVA. + 1 × 6,250 K.V.A. + 1 × 7,500 KVA. + 1 × 15,625 KVA. + 1 × 18,750 KVA. + 1 × 1,875 KVA. (Villivakkam) + 2 × 3,125 KVA. (Transportable power sets).	Do.	5 K.V.
5. Andhra Power System.— (a) Visakhapatnam ..	5,437.5 KVA.	2 × 1,875 KVA. + 1 × 937.5 KVA. + 1 × 750 KVA.	Steam turbine and oil engine.	
(b) Vijayavada ..	8,750	2 × 1,875 KVA. + 1 × 3,750 KVA. + 2 × 625 KVA.	Do.	
(c) Kakinada ..	2,057.5	2 × 100 KVA. + 1 × 312 KVA. + 1 × 375 KVA. + 1 × 62.5 KVA. + 2 × 220 KVA. + 2 × 334 KVA.	Oil engine.	
(d) Nellore ..	6,250	2 × 3125 KVA.	Steam turbine	
(e) Rajahmundry ..	803	1 × 94 KVA. + 1 × 375 KV. + 1 × 334 KVA.	Oil engines.	
(f) Kurnool ..	675.0	1 × 75 KVA. + 1 × 162.5 KVA. + 1 × 187.5 KVA. + 1 × 250 KVA.	do.	
(g) Cuddapah ..	514.0	1 × 94 KVA. + 2 × 210 KVA.	do.	
(h) Anantapur ..	192	2 × 64 KVA. + 2 × 32 KVA.	do.	
(i) Sandur ..	51 KW.	1 × 32 KW. + 1 × 19 KW.	do.	
	209,859 KVA. 51 KW.			
Total installed generating capacity of electrical undertakings in the State ..				209,859 KVA. 12,841.85 KVA. 212,700.85 KVA. or 159,523.6 KW. + 126 KW. 159,651.6 KW or 212,868.8 KVA.

APPENDIX

Table of electric supply cost and

Serial number and name of undertaking.	Year of operation.	Year of accounts to which the figures refer.	System and voltage of supply.	Total generation or purchase cost per unit.	Working cost per unit sold.	Revenue per	
				AS.	AS.	Lights and fans.	Power.
						AS.	AS.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1 Adoni	12th ..	1949 ..	A.C. 400/230 V, 50 cycles.	1.45	4.97	7.97	2.16
2 Ambur-Vaniambadi ..	13th ..	1949-50 ..	Do. ..	0.54	1.62	4.44	0.99
3 Anakapalle	12th ..	1949-50 ..	Do. ..	1.52	3.35	4.67	1.49
4 British CochIn ..	26th ..	1949-50 ..	Do. ..	1.62	4.80	5.56	3.01
5 Dobbilli	12th ..	1949-50 ..	Do. ..	1.13	3.11	3.09	1.69
6 Kozhikode	21st ..	1949-50 ..	Do. ..	0.53	2.00	3.20	1.37
7 Chittoor	16th ..	1949-50 ..	Do. ..	0.67	2.39	3.69	1.25
8 Chingleput	12th ..	1949-50 ..	Do. ..	0.60	1.51	3.01	1.21
9 Cannanore-Tellicherry.	12th ..	1949-50 ..	Do. ..	0.55	1.62	4.73	0.79
10 Chicacole	12th ..	1949-50 ..	Do. ..	3.52	7.13	5.87	2.26
11 Devakottal	26th ..	1949-50 ..	Do. ..	0.70	2.73	4.05	1.34
12 East Tanjore	16th ..	1949-50 ..	Do. ..	0.50	1.67	3.93	0.90
13 East Ramanad	12th ..	1949-50 ..	Do. ..	0.51	1.26	4.55	0.72
14 East Coast .. ..	.. ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..
15 Eluru	13th ..	1949-50 ..	A.C. 400/230 V, 50 cycles.	1.37	3.27	6.08	1.14
16 Guntur	18th ..	1949-50 ..	Do. ..	1.09	3.18	5.16	1.34
17 Gudiyattam	13th ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..
18 Gudivada	13th ..	1949-50 ..	A.C. 400/230 V, 50 cycles.	1.54	4.72	4.61	1.30
19 Kanadukathan	26th ..	1949-50 ..	Do. ..	0.67	2.21	3.87	1.26
20 Kumbakonam	18th ..	1949 ..	Do. ..	0.53	2.09	4.30	1.06
21 Karaikudi	20th ..	1949-50 ..	Do. ..	0.72	2.13	2.92	1.04
22 Mangalore	17th ..	1949-50 ..	Do. ..	1.23	3.58	5.49	2.16
23 Nellore	16th ..	1949-50 ..	Do. ..	2.21	5.51	5.97	2.04
24 Nagapattinam	15th ..	1949 ..	Do. ..	0.61	1.36	3.73	1.26
25 Nattarasankottal ..	17th ..	1949-50 ..	Do. ..	0.78	2.98	5.34	1.38
26 Narasaraopet	12th ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..
27 Neikuppai	12th ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..
28 Okkur	15th ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..
29 Ongole	12th ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..
30 Palghat	17th ..	1949-50 ..	A.C. 400/230 V, 50 cycles.	0.84	2.67	3.65	1.03
31 Ponnani .. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
32 Prodattur	15th ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..
33 Rajahmundry	22nd ..	1949-50 ..	A.C. 400/230 V, 50 cycles.	2.83	4.69	5.09	1.68
34 Salem-Erode	18th ..	1949-50 ..	Do. ..	0.53	1.14	4.44	0.88
35 South Arcot	15th ..	1949 ..	Do. ..	0.48	1.17	4.05	1.04
36 Salur-Parvatipur ..	11th ..	1949-50 ..	Do. ..	2.10	7.16	5.11	1.86
37 Srivilliputtur	13th ..	1949 ..	Do. ..	0.47	1.16	4.42	0.69
38 Trichy-Srirangam ..	22nd ..	1949-50 ..	Do. ..	0.32	0.75	3.09	0.59
39 Tinnevely-Tuticorin.	17th ..	1949-50 ..	Do. ..	0.50	1.75	3.16	1.32
40 Tirumalai-Tirupatt.	18th ..	1949-50 ..	Do. ..	0.63	2.55	3.50	1.08
41 Udipi	11th ..	1949-50 ..	Do. ..	2.49	6.59	5.66	2.29
42 Vellore	19th ..	1949-50 ..	Do. ..	0.59	1.75	3.37	0.81
43 Visakhapatnam	16th ..	1949-50 ..	Do. ..	1.14	2.54	4.38	1.19
44 Pudukottal State ..	12th ..	1949-50 ..	Do. ..	0.37	0.60	3.62	0.57
45 Ramachandrapuram	24th ..	1949-50 ..	Do. ..	0.83	3.12	4.40	1.55
46 Ponnamaravathy ..	12th ..	1949-50 ..	Do. ..	0.64	1.36	4.29	1.57
47 Pudukottal Electric	22nd ..	1949 ..	Do. ..	0.71	1.81	3.21	1.26
48 Kasargod (Sanc- tioned).	1st ..	1949-50 ..	.. ..	.. ..	.. ..	.. ..	.. ..

-1.

Records—Companies.

nit sold.	Total—Ex-		Total revenue	Total revenue	Net profit	Total capital	Serial number
Special contract.	Street lighting.	Total—(See Note 3.)	penditure against revenue. See Note (2).	from electric supply. See Note (3).	(+) or (-) up to the end of the year (as per general balance sheet.) (15)	expenditure up to the end of the year. (16)	
(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
AS.	AS.	AS.	RS.	RS.	RS.	RS.	
..	6.49	6.18	68,730	81,429	85,561	13,568	2,51,415 1
..	1.99	1.97	1,97,248	2,15,739	2,40,981	29,420	5,86,714 2
..	4.07	3.64	81,279	81,768	88,336	6,762	1,31,308 3
..	4.64	5.13	60,779	63,106	65,160	3,301	1,35,303 4
..	3.49	3.08	49,217	37,218	49,194	— 20,788	69,052 5
..	2.00	2.30	5,14,208	5,51,299	5,96,337	54,424	13,21,421 6
..	3.12	2.60	1,12,250	1,15,566	1,22,389	23,673	3,30,193 7
..	2.03	1.73	1,02,505	1,07,788	1,17,777	12,483	2,67,023 8
..	3.85	1.67	3,68,892	3,62,317	3,95,836	11,131	6,11,813 9
..	3.32	6.92	65,294	40,287	63,590	7,520	1,83,779 10
..	1.60	2.85	97,681	88,641	6,04,549	11,098	3,09,222 11
2.29	1.88	1.83	8,99,712	9,13,818	9,97,800	— 1,25,724	30,42,986 12
2.43	1.88	1.32	4,25,614	4,06,954	4,52,873	— 43,507	.. 13
construction.	..	..	..	..	..	..	59,878 14
..	2.30	3.53	1,61,509	1,49,661	1,77,522	19,332	8,15,412 15
..	1.99	3.25	7,07,662	5,06,233	7,37,087	30,675	9,67,272 16
..	..	..	..	..	..	..	.. 17
1.75	3.13	4.06	79,624	53,760	70,163	9,225	1,14,286 18
0.75	1.89	2.20	1,72,262	1,45,961	1,75,871	22,145	7,32,371 19
1.96	1.95	2.56	4,81,873	5,48,266	5,94,330	62,818	15,62,493 20
2.97	1.65	2.38	1,32,139	1,30,561	1,49,323	21,813	4,88,151 21
..	2.07	4.03	5,03,392	5,23,288	5,71,412	50,253	13,57,198 22
1.76	1.60	5.37	1,98,983	1,24,576	1,95,673	1,309	5,08,512 23
0.62	1.91	1.73	2,14,304	2,56,903	2,86,203	28,454	5,80,666 24
..	2.00	3.50	59,089	62,003	69,614	— 3,096	2,04,129 25
received.	..	..	..	..	..	..	.. 26
Government.	..	..	..	..	..	..	.. 27
Government.	..	..	..	..	..	..	.. 28
received.	..	..	..	..	..	..	.. 29
..	2.70	2.86	1,94,652	2,00,590	2,08,371	14,149	3,73,607 30
on 25th August 1950.	..	..	..	..	..	..	.. 31
received.	..	..	..	..	..	..	.. 32
..	3.21	4.08	3,16,251	2,37,344	2,75,312	— 40,938	5,97,135 33
0.77	1.81	1.35	9,41,087	11,13,089	11,20,781	45,065	17,05,812 34
0.81	2.03	1.37	11,54,190	12,87,891	13,61,367	1,38,049	29,10,231 35
..	2.52	6.45	47,211	27,611	42,777	— 533	1,15,194 36
2.50	3.15	1.34	3,06,419	3,09,629	3,56,472	80,552	7,62,969 37
0.05	1.62	0.87	16,12,861	17,51,680	18,86,013	4,45,827	47,69,441 38
1.13	1.46	2.15	6,75,691	7,29,411	8,36,858	22,711	17,41,134 39
0.04	1.81	2.30	1,78,307	1,47,576	1,62,843	2,356	4,83,584 40
2.05	3.12	6.56	95,356	62,607	95,440	207	2,48,828 41
..	2.46	1.95	4,58,816	4,82,071	5,16,489	94,275	9,83,488 42
1.27	1.92	2.69	4,24,365	3,84,112	4,49,943	18,673	6,92,366 43
2.98	1.47	0.68	2,10,510	2,06,634	2,49,074	57,263	5,12,209 44
..	3.31	3.47	60,872	61,539	70,723	9,852	4,08,536 45
0.69	2.41	1.52	1,09,128	1,05,268	1,22,208	13,120	3,60,374 46
..	2.00	2.21	1,48,300	1,71,002	1,82,700	49,177	3,51,169 47
received.	..	..	..	..	..	..	.. 48

APPENDIX

Table of electric supply cost and

Serial number and name of undertaking.	Year of operation.	Year of accounts to which the figures refer.	Depreciation for the year.	Depreciation fund at the end of the year.	Other reserves, special reserve at the end of the year.	Total capacity.	Maximum load on the feeders.	Total units generated for the year.	Total units purchased for the year.	Load factor.	Total number of units sold for the year.	Total number of consumers at the end of the year.	Dividend declared on ordinary shares for the year.	Serial number
			(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	
			RS.	RS.	RS.					PER CENT.				
1 Adoni ..	12th	1949	10,904	70,290	..	346 K.W.	155 K.W.	268,158	..	16.31	221,395	501	....	1
2 Ambur-Vaniambadi.	13th	1949-50	18,523	1,14,641	36,663	1,175 K.W.	675 K.W.	..	2,353,305	33.04	1,953,523	2,547	7½ per cent tax free.	2
3 Anakapalle ..	12th	1949-50	4,277	41,164	..	240 K.W.	188 K.W.	..	456,140	23.83	388,266	622	3 per cent tax free.	3
4 British Cochin ..	26th	1949-50	5,623	60,101	..	105 K.W.	85 K.W.	..	244,300	27.23	202,724	384	3 per cent tax free.	4
5 Bobbili ..	12th	1949-50	3,970	23,885	..	375 K.V.A.	130 K.W.	..	298,943	22.23	253,168	349	....	5
6 Kozhikode ..	21st	1949-50	32,427	4,26,743	1,09,954	2,580 K.V.A.	1,550 K.V.A.	..	4,808,238	37.90	4,118,129	3,844	7½ per cent tax free.	6
7 Chittoor ..	16th	1949-50	10,705	82,491	2,227	750 K.W.	262 K.W.	..	916,306	32.78	752,385	1,483	6 per cent tax free.	7
8 Chingleput ..	12th	1949-50	12,597	67,424	3,250	675 K.V.A.	308 K.W.	..	1,217,121	40.55	1,086,645	937	5½ per cent tax free.	8
9 Cannanore-Tellicherry.	12th	1949-50	56,388	1,42,856	24,406	2,190 K.V.A.	1,130 K.W.	..	3,975,848	36.91	3,653,347	2,737	7½ per cent tax free.	9
10 Chicacole ..	12th	1949-50	..	26,025	684	107 K.W.	..	167,904	..	16.90	146,522	662	..	10
11 Devakottai ..	26th	1949-50	11,611	1,10,897	1,609	785 K.W.	267.5 K.V.A.	..	715,412	30.52	872,049	1,365	3 per cent tax free.	11
12 East Tanjore ..	16th	1949-50	99,700	7,46,738	1,300	7,210 K.V.A.	..	..	10,931,011	20.88	8,638,048	18,022	7½ per cent.	12
13 East Ramnad ..	12th	1949-50	35,886	2,57,341	6,000	5,250 K.V.A.	..	..	6,233,702	..	5,420,848	4,055	7½ per cent.	13
14 East Coast ..	..	..	..	..	..	..	..	..	..	..	..	..	..	14
15 Eluru ..	13th	1949-50	11,031	1,19,617	..	Not furnished.	260 K.W.	..	902,926	34.71	790,678	1,430	6½ per cent tax free.	15
16 Guntur ..	18th	1949-50	47,176	3,25,148	14,427	3,038 K.W.	Tenali 1,116 K.V.A. Seethanagaram 73 K.W.	..	4,368,629	42.04	3,556,706	3,111	4 per cent tax free.	16
17 Gudiyattam ..	13th	1949-50	..	..	..	..	Taken over by	..	292,569	34.21	269,618	599	..	17
18 Guduvada ..	13th	1949-50	..	26,733	..	125 K.V.A.	113 K.V.A.	..	1,570,580	33.90	1,247,244	2,026	5 per cent tax free.	18
19 Kanadukathan ..	26th	1949-50	25,498	2,09,853	17,115	975 K.V.A.	525 K.V.A.	..	4,766,113	37.67	3,696,188	7,319	6½ per cent.	19
20 Kumbakonam ..	18th	1949	69,031	4,58,156	93,143	2,933 K.V.A.	1,400 K.V.A.	..	1,230,800	30.75	991,182	1,729	7½ per cent tax free.	20
21 Karalkudi ..	20th	1949-50	16,693	1,87,940	8,391	1,630 K.W.	460 K.V.A.	2,653,740	..	33.94	2,251,026	3,254	10 per cent tax free.	21
22 Mangalore ..	17th	1949-50	27,628	8,76,455	8,555	1,284 K.W.	757 K.W.	731,778	..	26.82	577,901	1,069	..	22
23 Nellore ..	16th	1949-50	37,150	1,12,180	4,881	376 K.W.	246 K.W.	..	3,045,864	29.37	2,890,717	2,706	6½ per cent tax free.	23
24 Nagapattinam ..	15th	1949	29,836	1,62,412	11,500	4,713 K.W.	1,120 K.W.	..	378,049	26.69	317,938	1,009	..	24
25 Nattarasankottai ..	17th	1949-50	6,438	73,278	1,177	218 K.W.	136 K.W.	..	..	..	..	..	..	25
26 Narasaraopet ..	12th	1949-50	..	..	..	..	Accounts not	received.	..	..	..	..	..	26
27 Nelkuppai ..	12th	1949-50	..	..	..	..	Taken over by	Government.	..	..	..	..	..	27
28 Okkur ..	15th	1949-50	..	..	..	..	Taken over by	Government.	..	..	..	..	..	28
29 Ongole ..	12th	1949-50	..	..	..	..	Accounts not	received.	1,391,878	25.63	1,166,044	2,536	6 per cent tax free.	29
30 Palghat ..	17th	1949-50	16,054	1,40,219	19,817	425 K.V.A.	520 K.W.	25th August 1950.	..	..	..	..	..	30
31 Ponnani ..	..	..	..	..	..	..	Licence revoked on	received.	510,684	..	..	..	..	31
32 Proddatur ..	15th	1949-50	..	..	..	..	Accounts not	..	742,488	13.59	1,080,414	1,248	..	32
33 Rajahmundry ..	22nd	1949-50	19,638	2,96,469	..	not furnished.	493 K.W.	..	14,554,142	..	13,230,990	9,346	10 per cent tax free.	33
34 Salem-Erode ..	18th	1949-50	48,825	7,22,509	90,000	11,140 K.V.A.	..	..	19,125,035	38.27	15,838,120	6,767	6 per cent tax free.	34
35 South Arcot ..	15th	1949	92,632	6,07,702	1,12,912	not furnished.	..	24,894	106,430	21.50	105,450	428	..	35
36 Salur-Parvatipur ..	11th	1949-50	4,141	20,807	..	20 K.W. & 50 K.V.A.	14 K.W. & 52 K.V.A.	..	4,551,217	53.50	4,239,724	3,009	6½ per cent.	36
37 Srivilliputtur ..	13th	1949	31,632	1,40,423	25,815	2,975 H.V.A.	905 K.W.	..	88,154,024	{ T. 48.18 M. 31.00 }	34,461,570	16,278	7½ per cent.	37
38 Trichy-Srirangam.	22nd	1949-50	1,52,656	12,51,204	30,000	24,427 K.V.A.	Tiruchirappalli 8,610 K.W. Mayanur, 193 K.W.	..	7,212,426	30.33	6,168,307	9,041	10 per cent tax free.	38
39 Tinnevely-Tuticorin.	17th	1949-50	55,024	6,93,746	1,70,000	2,000 K.V.A.	1,790 K.W.	..	1,579,308	32.71	1,117,642	1,952	..	39
40 Tirumalai-Tirupati.	18th	1949-50	18,080	2,24,589	..	1,239 K.W.	390 K.W.	285,077	..	18.67	231,997	730	..	40
41 Udipi ..	11th	1949-50	7,000	27,500	..	162 K.W.	130 K.W.	..	4,778,993	34.69	4,201,474	5,946	6½ per cent tax free.	41
42 Vellore ..	19th	1949-50	39,254	3,35,494	1,14,108	Not furnished.	1,383 K.W.	..	3,179,200	42.48	2,671,912	2,124	3 per cent tax free.	42
43 Visakhapatnam ..	16th	1949-50	19,197	2,46,790	62,823	2,384 K.W.	897 K.V.A.	..	5,633,488	45.44	5,632,104	198	7½ per cent.	43
44 Pudukottai State ..	12th	1949-50	16,305	63,073	2,000	3,115 K.V.A.	1,415 K.W.	..	414,522	18.26	311,832	1,076	3 per cent.	44
45 Ramachandrapuram Electric Licence.	14th	1949-50	12,814	1,76,173	9,000	300 K.V.A.	195 K.W.	..	1,390,489	43.76	1,288,174	1,429	3 per cent.	45
46 Ponnamaravathy ..	12th	1949-50	13,692	83,438	435	600 K.W.	336 K.W.	..	1,507,220	34.11	1,316,493	1,912	10 per cent.	46
47 Pudukottai Electric Licence.	22nd	1949	22,964	1,83,824	32,550	1,250 K.V.A.	440 K.V.A.	..	..	..	..	..	..	47
48 Kasargod (Sancionees).	1st	1949-50	..	..	..	..	Accounts not	received.	..	..	..	..	..	48

Notes.—(1) All the figures have been calculated on a uniform basis according to standard
(2) Total expenditure including interest, income-tax paid, preference-dividends, less service connexion charges.
(3) Excludes service connexion charges as given in the debtor side of the No. IV

T.—Tiruvallur.
V.—Vallam.
A.—Arantangi.

S.—Sivaganga.
SK.—Sivakampuneri.
V M.—Villupuram.

CH.—Chidambaram.
C.—Chicacole.
N.—Narasannapettah.

F-1—cont.

records—Companies—cont.

Total units generated for the year.	Total units purchased for the year.	Load factor.	Total number of units sold for the year.	Total number of consumers at the end of the year.	Dividend declared on ordinary shares for the year.	Serial number
(22)	(23)	(24)	(25)	(26)	(27)	
268,158	..	16.31	221,395	501	....	1
..	2,353,305	33.04	1,953,523	2,547	7½ per cent tax free.	2
..	456,140	23.83	388,266	622	3 per cent tax free.	3
..	244,300	27.23	202,724	384	3 per cent tax free.	4
..	298,943	22.23	253,168	349	....	5
..	4,808,238	37.90	4,118,129	3,844	7½ per cent tax free.	6
..	916,306	32.78	752,385	1,483	6 per cent tax free.	7
..	1,217,121	40.55	1,086,645	937	5½ per cent tax free.	8
..	3,975,848	36.91	3,653,347	2,737	7½ per cent tax free.	9
167,904	..	16.90	146,522	662	..	10
..	715,412	30.52	872,049	1,365	3 per cent tax free.	11
..	10,931,011	20.88	8,638,048	18,022	7½ per cent.	12
..	6,233,702	..	5,420,848	4,055	7½ per cent.	13
..	902,926	34.71	790,678	1,430	6½ per cent tax free.	14
..	4,368,629	42.04	3,556,706	3,111	4 per cent tax free.	15
..	292,569	34.21	269,618	599	..	16
..	1,570,580	33.90	1,247,244	2,026	5 per cent tax free.	17
..	4,766,113	37.67	3,696,188	7,319	6½ per cent.	18
..	1,230,800	30.75	991,182	1,729	7½ per cent tax free.	19
2,653,740	..	33.94	2,251,026	3,254	10 per cent tax free.	20
731,778	..	26.82	577,901	1,069	..	21
..	3,045,864	29.37	2,890,717	2,706	6½ per cent tax free.	22
..	378,049	26.69	317,938	1,009	..	23
..	..	..	..	..	..	24
..	..	..	..	..	..	25
..	..	..	..	..	..	26
..	..	..	..	..	..	27
..	..	..	..	..	..	28
..	1,391,878	25.63	1,166,044	2,536	6 per cent tax free.	29
..	..	..	..	..	..	30
..	..	..	..	..	..	31
..	..	..	..	..	..	32
..	..	..	..	..	..	33
..	..	..	..	..	..	34
..	..	..	..	..	..	35
..	..	..	..	..	..	36
..	..	..	..	..	..	37
..	..	..	..	..	..	38
..	..	..	..	..	..	39
..	..	..	..	..	..	40
..	..	..	..	..	..	41
..	..	..	..	..	..	42
..	..	..	..	..	..	43
..	..	..	..	..	..	44
..	..	..	..	..	..	45
..	..	..	..	..	..	46
..	..	..	..	..	..	47
..	..	..	..	..	..	48

practice.
amounts written off towards preliminary expenses and interest paid on consumers' security deposits, etc., but

Revenue Account.

TN.—Tenali.
SN.—Seethanagaram.

U.—Udipi.
K.—Karkala.

Ty.—Tiruchirappalli.
M.—Mayanur.

APPENDIX

Table of electric supply costs and

Serial number and name of undertaking.	Year of operation.	Year of accounts to which the figures refer.	System and voltage of supply.	Total generation or purchase cost per unit.	
(1)	(2)	(3)	(4)	(5)	
				AS.	
1 Alandur				Accounts not	
2 Anantapur				Taken over by Government	
3 Bellary				Accounts not	
4 Bodinayakanur				Do.	
5 Coimbatore	17th	1949-50	{ A.C. 400/230 V. 50 cycles	0.55	
6 Coonoor	21st	Do.	Do.	0.74	
7 Dindigul	18th	Do.	Do.	0.62	
8 Dharapuram	11th	Do.	Do.	0.77	
9 Hindupur				Accounts not	
10 Hospet	15th	1949-50	{ A.C. 400/230 V. 50 cycles	Not available.	
11 Kakinada	21st	Do.	Do.	1.69	
12 Kancheepuram	19th	Do.	Do.	0.70	
13 Karur	14th	Do.	Do.	0.70	
14 Kodalkanal	12th	Do.	Do.	0.81	
15 Kollegal				Taken over by Government	
16 Madurai	23rd	1949-50	{ A.C. 400/230 V. 50 cycles	0.48	
17 Masulipatnam	17th	Do.	Do.	1.39	
18 Ootacamund	27th	Do.	Do.	0.58	
19 Pollachi	17th	Do.	Do.	0.59	
20 Palni	15th	Do.	Do.	0.73	
21 Periyakulam	15th	Do.	Do.	0.75	
22 Rameswaram (Panchayat Board)	11th	Do.	Do.	4.00	
23 Sembiam				Accounts not	
24 Sivakasi	14th	1949-50	{ A.C. 400/230 V. 50 cycles	0.73	
25 Tiruvallur	13th	Do.	Do.	0.66	
26 Tiruppur	16th	Do.	Do.	0.62	
27 Tanjore	22nd	Do.	Do.	0.56	
28 Tiruvottiyur	17th	Do.	Do.	1.25	
29 Tiruppattur (North Arcot)	12th	Do.	Do.	0.76	
30 Tiruvannamalai	12th	Do.	Do.	0.70	
31 Udumalpet	16th	Do.	Do.	0.72	
32 Vilayavada				Accounts not	
33 Virudhunagar	16th	1949-50	{ A.C. 400/230 V. 50 cycles	0.63	
34 Villivakkam				Accounts not	
35 Wellington Cantonment.				Exempted by Government from submitting	

F-2.

records—Local authorities.

Working cost per unit sold— See Note (2).	Revenue per unit sold.					Total expenditure against revenue— See Note (2).	Revenue from electric supply.	Serial number.
	Lights and fans.	Power.	Special contract.	Street lighting.	Total— See Note (3).			
	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
AS.	AS.	AS.	AS.	AS.	AS.	RS.	RS.	
received.								1
on 15th July 1949.								2
received.								3
do.								4
1.43	3.02	0.93	0.70	1.26	2.39	5,53,634	8,16,721	5
2.17	3.77	1.13	..	2.00	2.54	1,08,078	1,11,157	6
1.65	3.34	0.89	..	1.50	2.10	1,79,381	2,06,481	7
2.25	4.09	1.12	..	1.75	2.89	53,550	53,051	8
received.								9
6.53	6.05	1.20	..	3.74	5.86	61,903	42,170	10
3.20	4.28	2.25	..	2.00	3.55	2,92,814	2,71,362	11
1.91	4.26	1.20	..	1.79	2.58	2,02,038	2,53,923	12
1.68	3.74	0.93	..	2.00	2.25	91,052	1,15,134	13
4.50	5.79	1.84	..	1.86	4.97	59,657	56,907	14
on 1st October 1948.								15
1.16	3.19	0.95	0.73	1.25	1.92	7,30,079	10,94,823	16
4.00	5.63	1.32	0.86	2.81	3.90	1,78,693	1,49,305	17
1.70	3.28	1.10	0.71	2.00	1.87	2,96,997	2,92,808	18
1.38	3.78	0.93	..	2.00	1.77	1,51,840	1,75,284	19
1.85	3.41	1.01	..	2.04	2.63	65,858	84,494	20
2.19	3.85	1.04	..	2.00	2.91	54,481	60,043	21
7.44	6.33	..	..	1.27	6.07	8,907	7,028	22
received.								23
2.09	4.10	0.90	1.89	2.00	2.43	65,295	69,804	24
1.90	3.88	1.04	..	2.00	2.13	62,631	59,831	25
1.63	3.41	1.14	..	2.00	2.04	1,53,394	1,80,599	26
1.50	3.03	1.01	0.62	1.82	2.07	2,45,636	2,92,090	27
1.94	4.39	1.28	2.39	2.42	1.97	84,463	77,378	28
2.09	3.86	1.09	..	2.00	2.50	56,777	63,294	29
1.87	3.45	0.94	1.75	2.00	2.15	73,503	79,001	30
1.99	3.93	0.93	..	1.75	2.30	60,776	63,655	31
received.								32
1.44	3.98	0.90	..	2.16	1.91	1,38,390	1,70,950	33
received.								34
the accounts in prescribed form.								35

APPENDIX

Table of electric supply costs and

	Total revenue from working—See Note (3).	Net profit (+) or (—) up to the end of the year as per General balance sheet.	Loans repaid during the year.	Total capital expenditure up to the end of the year.
	(14)	(15)	(16)	(17)
	RS.	RS.	RS.	RS.
1 Alandur				Accounts not
2 Anantapur			Taken over	by Government
3 Bellary				Accounts not
4 Bodinayakanur				Do.
5 Coimbatore	9,25,765	7,79,089	37,368	11,92,787
6 Coonoor	1,26,512	— 8,091	10,259	2,71,172
7 Dindigul	2,27,969	1,77,353	13,292	2,93,795
8 Dharapuram	68,844	1,227	6,387	1,51,355
9 Hindupur				Accounts not
10 Hospet	55,583	— 99,205	22,336	1,84,504
11 Kakinada	3,17,200	28,229	21,322	4,38,612
12 Kancheepuram	2,73,625	1,61,827	22,761	5,29,466
13 Karur	1,22,714	48,206	8,196	1,84,524
14 Kodalkanal	66,815	49,841	8,815	1,83,053
15 Kollegal			Taken over by Government	
16 Madurai	12,16,725	1,64,073		15,78,134
17 Masulipatnam	1,74,515	16,096	16,363	2,48,048
18 Ootacamund	3,23,683	18,683	32,668	9,89,484
19 Pollachi	1,96,050	1,13,406	11,159	2,46,995
20 Palni	94,233	71,023	4,326	1,04,379
21 Periyakulam	72,553	3,291	5,575	1,32,584
22 Rameswaram (Panchayat Board) ..	7,253	391	1,597	35,036
23 Sembiam				Accounts not
24 Sivakasi	75,979		7,579	1,68,733
25 Tiruvallur	70,313	2,252	6,121	1,49,759
26 Tiruppur	1,94,389	61,821	10,674	4,19,226
27 Tanjore	3,40,535	1,92,815	20,757	5,90,958
28 Tiruvottiyur	85,916	— 14,707	2,767	91,039
29 Tirupattur (North Arcot)	67,956	4,059	7,200	1,54,995
30 Tiruvannamalai	84,884	11,448	11,532	2,10,790
31 Udumalpet	70,453	372	6,288	1,66,855
32 Vijayavada				Accounts not
33 Virudhunagar	1,84,429		12,234	3,53,134
34 Villivakkam				Accounts not
35 Wellington Cantonment				Exempted by Government from submitting

Notes.—(1) All figures are calculated on a uniform basis according to the standard practice.
 (2) Total expenditure including loan charges but less service connexion.
 (3) Excluding charges for service connexion as given on the Debtor side of No. III Revenue Account.

F-2—cont.

records—Local authorities—cont.

Total capacity.	Maximum load on the feeders.	Units generated.	Units purchased.	Load factor.	Total number of units sold.	Total number of consumers at the end of the year.	Serial number.
(18)	(19)	(20)	(21)	(22)	(23)	(24)	
PER CENTAGE.							
received.							1
on 15th July 1949.							2
received.							3
do.							4
2,775 KVA	2,505 KW	..	7,248,491	23-23	6,193,248	8,540	5
450 KVA	315 KW	..	886,988	23-89	796,930	1,301	6
950 KVA	618 KVA	..	199,523	32-08	1,736,015	1,929	7
175 KVA	160 KVA	..	436,837	27-23	381,614	905	8
received.							9
200 KVA	79 KW	[Not available]		21-93	151,730	555	10
450 KVA	385 KW	..	1,582,158	42-22	1,424,393	1,869	11
675 KVA	572 KW	..	1,922,067	33-82	1,693,861	3,031	12
425 KVA	350 KVA	..	965,720	28-30	867,532	1,472	13
200 KVA	170 KW	..	248,256	14-23	211,909	595	14
on 1st October 1948.							15
3,925 KVA	3,360 KVA	..	11,588,023	34-18	10,058,389	8,956	16
303 KVA	292-5 KW	..	809,652	27-83	714,100	1,238	17
1,448 KW	1,220 KW	..	3,193,651	26-26	2,806,503	2,267	18
1,025 KVA	595 KW	..	2,053,965	33-79	1,781,066	1,423	19
275 KW	218 KW	..	642,400	29-35	569,982	937	20
200 KVA	144 KVA	..	439,460	31-55	397,968	952	21
..	21 KW	..	19,445	10-41	19,149	144	22
received.							23
275 KVA	172 KW	..	577,360	33-14	499,538	1,126	24
250 KW	146 KW	..	611,184	41-20	527,047	563	25
1,175 KVA	483 KVA	..	1,800,162	35-59	1,505,562	1,962	26
1,125 KVA	840 KVA	..	2,966,384	35-65	2,623,267	3,050	27
350 KVA	320 KVA	..	783,136	24-29	697,916	289	28
175 KVA	168 KW	..	4,72,415	29-60	435,535	1,069	29
425 KVA	348 KW	..	705,968	20-68	630,733	1,111	30
300 KVA	183 KW	..	575,817	30-49	488,829	829	31
received.							32
825 KVA	550 KVA	..	1,671,705	31-87	1,535,880	2,447	33
received.							34
the accounts in prescribed form.							35

basis according to the standard practice.
 charges but less service connexion.
 connexion as given on the Debtor side of No. III Revenue Account.

Statistical data for the administration report for the year ending 31st March 1951 (Company licensees).

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1950-51.

Serial number and name of licensee.	Number of units generated.	Number of units purchased.	Number of units sold.	Maximum demand in K. W.	Industrial							
					Municipal.	Textiles.	Cement works.	Mines.	Tea estates.	Chemicals.	Steel rolling mills.	Small industries.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1 Adoni	..	527,856	444,395	136	(a) 18 (b) 31,643 (c) Rs. 7,996 (d) 6	Particulars not available.	..	..	..	..	..	145 121,079 Rs. 10,690 23
2 Anakapalle ..	..	..	..	..	..	..	..	..	..	..	..	..
3 Ambur-Vanlambadi.	..	..	..	..	..	..	..	..	..	..	..	..
4 British-Cochin ..	..	294,900	212,323	85	(a) 17 (b) 17,709 (c) Rs. 6,114 (d) 9	36 (Combined for all items under industrial.) 15,679 3,084 2	..	..	..	..	..	..
5 Bobbili	..	550,505	274,693	149	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	459 151,464 Rs. 11,452 33
6 Kozhikode	..	6,895,545	5,055,199	1,700	(a) 56 (b) 169,890 (c) Rs. 21,236 (d) 1	68.0 464,232 Rs. 88,437 8	..	..	..	100 55,110 Rs. 7,523 4	..	1,940 2,644,393 Rs. 2,16,980 192
7 Chittoor	..	1,107,039	938,225	256	(a) 33 (b) 67,723 (c) Rs. 14,747 (d) 16	..	..	..	..	400 67,707 Rs. 5,645 2	..	573 291,219 Rs. 18,736 72
8 Chingleput	..	1,438,275	1,229,390	363	(a) 23 (b) 46,140 (c) Rs. 5,805 (d) 6	..	..	..	..	..	..	308 164,839 Rs. 12,413 24
9 Pannare-Tellicherry	..	4,742,280	4,438,768	1,200	(a) 39 (b) 94,771 (c) Rs. 13,230 (d) 3	1,157 3,047,706 Rs. 1,03,162 2	..	..	..	..	..	393 501,535 Rs. 57,816 77
10 Srikakulam	..	..	..	..	..	..	..	..	..	..	..	..
11 Devakottal	..	..	..	..	..	..	..	..	..	..	..	..
12 East Tanjore ..	..	10,288,174	8,082,941	3,086	(a) 30 (b) 231,769 (c) Rs. 26,953 (d) 3	Particulars not available. ..	..	..	..	..	..	5,721 3,262,541 Rs. 2,86,759 553

13 East Ramana- thapuram.	..	46,81,182	5,545,612	1,720	(a) (b) (c) (d)																																																																																																																																																																																																																																																																																																																																																																																																																			<
------------------------------	----	-----------	-----------	-------	--------------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	----------------------	-----------

APPENDIX F-3—cont.

Statistical data for the administration report for the year ending 31st March 1951 (Company licensees)—cont.

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1950-51.

Serial number and name of licensees.	(1)	Number of units generated.	(2)	Number of units purchased.	(3)	Number of units sold.	(4)	Maximum demand in K.W.	(5)	Industrial.						
										Municipal.	Textiles.	Cement works.	Minea.	Tea estates.	Chemicals.	Steel rolling mills.
										(6)	(7)	(8)	(9)	(10)	(11)	(12)
										(a)	(b)	(c)	(d)	(e)	(f)	(g)
31 Salem-Erode	..	..	..	15,549,203	13,005,271	3,933	..	..	..	..	..	..	..	..	..	..
32 South Arcot	..	..	..	22,057,953	15,887,246	4,313	..	..	..	..	..	..	..	..	..	..
33 Saur-Parvatipur	..	..	..	4,035,680	3,715,511	915	..	..	..	..	..	..	..	..	..	..
34 Srivilliputhur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35 Tiruchirappalli-Srirangam	..	..	..	45,035,418	34,830,100	8,252 K.W.	..	..	..	..	..	..	..	..	..	..
36 Tirunelveli-Tuticorin	..	..	..	6,883,372	5,811,993	1,820	..	..	..	..	..	..	..	..	..	..
37 Tirunelveli-Tirupathi.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38 Udipi	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39 Vellore	..	..	..	5,102,134	4,434,374	1,440	..	..	..	..	..	..	..	..	..	..
40 Vatakhatnam	..	..	..	3,429,134	2,354,180	929	..	..	..	..	..	..	..	..	..	..
41 Pudukkottai State	..	..	..	Figures furnished* under T.S.E.L. as no separate equipment is available.	5,746,332 Including under T.S.E.L.	..	..	..	..	..	..	..	..	..	..	..
42 Pudukkottai (†)	..	..	..	1,250,163	1,103,536	390 KVA	..	..	..	..	..	..	..	..	..	..
43 Ramachandrapuram.	..	..	..	459,034	35,032	150	..	..	..	..	..	..	..	..	..	..
44 Ponnammavathy	..	..	..	1,745,450	1,639,298	453	..	..	..	..	..	..	..	..	..	..
45 Kanara Ceramics, Kesaragod, Suctioned under Sec. 28.	..	..	..	50,199	..	50	..	..	..	..	..	..	..	..	..	..

* Trichy-Srirangam Electric Licence.

(†) Figures relate to the calendar year 1950.

APPENDIX F-3—cont.

Statistical data for the administration report for the year ending 31st March 1951 (Company licenses)—cont.

Serial number and name of licensee.	Railways.	Government departments.	Panchayat Boards.	Agriculture.	Domestic lighting and power.	Miscellaneous.	Total connected load in K.W.	Number of high-tension and low-tension consumers as on 31st March 1951.				Rural electrification.			
								High-tension.	Low-tension.	As on 31st March 1951.		Number of agricultural pump sets and total horse-power.		Connected during the year 1950-51.	Horse-power.
										Number.	Horse-power.	Number.	Horse-power.		
1 Adoni ..	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)		
2 Anakapalle ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
3 Ambur-Vaniyambadi ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
4 British-Cochin ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
5 Bobbili ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
6 Kozhikode ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
7 Chittoor ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
8 Chingleput ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
9 Cannanore-Tellicherry ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
10 Sriakulam ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
11 Devakottai ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
12 East Tanjore ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
13 East Ramanathapuram ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		

14 East Coast ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
15 Eluru ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
16 Guntur ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
17 Gudur ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
18 Kanaikathan ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
19 Kumbakonam ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
20 Karakudi ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
21 Mangalore ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
22 Nellore ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
23 Nagapattinam ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
24 Nattarasankottai ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
25 Narasaraopet ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
26 Ongole ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
27 Ponnani ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
28 Palghat ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		
29 Proddatur ..	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)		

APPENDIX F-3—cont.

Statistical data for the administration report for the year ending 31st March 1951 (Company licensees)—cont.

Serial number and name of licensee.	Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1950-51—cont.										Rural electrification.			
	Railways.	Govt. ment. depart. ments.	Panchayat Boards.	Agricultural.	Domestic lighting and power.	Miscellaneous.	Total connected load in K.W.	Number of high-tension and low-tension consumers as on 31st March 1951.		As on 31st March 1951.	Number of agricultural pump sets and total horse-power.		Connected during the year 1950-51.	Horse-power.
								High tension.	Low tension.		Number.	Horse-power.	Number.	Horse-power.
	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(26)
30 Rajahmundry ..	(a) 33 (b) 68,164 (c) Rs. 16,038 (d) 3	(a) 120 (b) 84,407 (c) Rs. 29,274 (d) 61	(a) 4 (b) 4,101 (c) Rs. 1,244 (d) 5	(a) 5 (b) 484 (c) Rs. 95 (d) 2	(a) 487 (b) 514,223 (c) Rs. 2,43,331 (d) 1,317	(a) 69 (b) 110,932 (c) Rs. 23,702 (d) 122	1,180	1	1,623	..	..	..	..	..
31 Salem-Erode ..	(a) 63 (b) 146,892 (c) Rs. 11,593 (d) 5	(a) .. (b) .. (c) .. (d) ..	(a) 22 (b) 49,833 (c) Rs. 9,746 (d) 4	(a) 2 (b) 344,237 (c) Rs. 19,535 (d) 1,009	(a) 3,174 (b) 2,143,632 (c) Rs. 4,54,423 (d) 10,092	(a) 2,620 (b) 3,634,953 (c) Rs. 2,31,318 (d) 234	12,743	6	10,891	109	706	16	83	83
32 South Arcot ..	(a) 129 (b) 447,333 (c) Rs. 38,844 (d) 5	(a) 44 (b) 100,512 (c) Rs. 13,641 (d) 24	(a) 93 (b) 28,832 (c) Rs. 15,786 (d) 6	(a) 6,440 (b) 10,390,032 (c) Rs. 7,20,439 (d) 1,411	(a) 2,563 (b) 1,343,336 (c) Rs. 3,74,902 (d) 5,664	..	12,597	4	7,341	1,411	7,156	84	84	486
33 Salur-Parvatipur ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	..	..
34 Srivilliputtur ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	..	..
35 Tiruchirappalli-Strangam.	(a) 233 (b) 158,551 (c) Rs. 19,649 (d) 25	(a) 58 (b) 330,178 (c) Rs. 23,162 (d) 56	(a) 27 (b) 222,038 (c) Rs. 23,542 (d) 229	(a) 1,664 (b) 1,343,268 (c) Rs. 90,224 (d) 415	(a) 7,450 (b) 3,240,208 (c) Rs. 7,57,924 (d) 16,462	(a) 45 (b) 339,785 (c) Rs. 22,922 (d) 2	22,094	5	17,774	415	2,281	135	671	671
36 Tirunelveli-Tudicorin.	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	..	..
37 Tirumalai-Tirupati.	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	..	..
38 Udipi ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	..	..
39 Vellore ..	(a) 26 (b) 61,935 (c) Rs. 8,372 (d) 3	(a) 194 (b) 99,177 (c) Rs. 15,616 (d) 101	(a) 61 (b) 147,252 (c) Rs. 29,493 (d) 13	(a) 394 (b) 245,338 (c) Rs. 17,436 (d) 103	(a) 1,794 (b) 1,343,240 (c) Rs. 3,59,129 (d) 6,090	(a) 854 (b) 387,417 (c) Rs. 32,576 (d) 11	5,605	2	6,541	68	320	19	83	83

NOTE.—(a) Connected load in K.W.
(b) Consumption.
(c) Revenue.
(d) Number of consumers.
All the figures are as furnished by the concerned licensees.
* Not furnished.

Statistical data for the administration report for the year ending 31st March 1951 (Company licenses)—cont.

APPENDICES

Rural Electrification—cont.

Serial number and name of licensee.	No. of rural industries and total H.P.			Length of lines in miles.		No. of distribution transformers.		Expenditure on rural electrification.				Population of area of supply.							
	As on 31-3-51.			High- tension.	Low- tension.	Erected during the year 1950-51.	Total number at the end of 1950-51.												
	No.	Horse power.	Connected during the year 1950-51.					(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1 Adoni ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2 Anakapalle ..	..	..	..	1	11	..	3	..	..	..	..	..	..	..	..	..	..	..	40,000 (nearly)
3 Ambur-Vanlyambadi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4 British Cochin ..	..	..	..	1	9	..	2	..	..	..	..	..	..	..	..	..	..	..	29,000
5 Bobbili ..	..	..	..	1	4	..	3	..	..	..	..	..	..	..	..	..	..	..	21,670
6 Kozhikode ..	..	..	..	21	57	3	25	..	..	..	..	..	..	..	..	..	..	..	2,00,000
7 Chittoor ..	70	573	11	11	21	Nil	9	10,340	14,457	21,833	10,590	4,000	..	..	..	..	..	..	40,000
8 Chingleput ..	..	..	..	8	29	..	13	25,000	23,306	24,520	31,255	11,773	..	..	..	..	..	..	36,000 (approximate)
9 Cannanore-Tellicherry ..	10	183	4	26	50	2	22	20,000	19,360	3,800	..	..	..	..	..	..	..	..	1,50,000
10 Chitacole ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11 Devakottai ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12 East Tanjore ..	553	2,669	72	320	333	14	175	60,929	1,57,371	1,26,852	3,61,479	4,08,616	..	..	..	..	..	..	16,11,162
13 East Ramanad ..	93	1,640	17	149	71	6	37	12,632	37,558	91,518	1,17,409	1,29,120	..	..	..	..	..	..	2,07,243
14 East Coast ..	..	..	..	2	3	1	1	..	..	..	..	..	..	..	..	..	..	..	11,159
15 Eluru ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	70,000
16 Guntur ..	1	3	1	116	3	3	27	..	..	..	..	..	..	..	..	..	..	..	2,00,000
17 Gudivada ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18 Kanadukathan ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19 Kumbakonam ..	150	1,839	13	84	142	5	60	1,13,347	1,04,958	1,03,725	1,93,647	7,098	..	..	..	..	..	..	2,00,000 (approximate)
20 Karakudi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21 Mangalore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,17,095
22 Nellore ..	..	..	..	60	60	1	8	..	..	..	..	..	..	..	..	..	..	..	80,000 (approximate)

APPENDICES

APPENDICES

23 Nagapattinam	42	650	5	85	29	85	2	19	7,015	19,731	57,643	30,633	68,326	75,000 (approximate)
24 Nattarasankottai	..	..	..	..	5	15	..	3	..	..	..	..	..	19,981
25 Narasaraopet	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26 Ongole	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27 Ponnani	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28 Palghat	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29 Proddatur	..	..	..	..	..	..	..	..	..	..	..	..	..	70,000
30 Rajahmundry	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31 Salem-Erode	77	1,237	8	72	32	153	3	43	..	..	..	..	..	1,23,000
32 South Arcot	486	2,277	2,576	29	191	134	352	4	..	(Figures not maintained)	..	..	..	2,24,272
33 Salur-Parvatipur	227	2,576	29	191	134	352	..	94	Rs. 2,45,000	5,45,000	2,00,000	72,500	80,000	2,50,000
34 Srivilliputtur	..	..	..	..	..	..	..	..	..	..	..	..	..	..
35 Tiruchirappalli-Srirangam	205	1,572	40	401	313	63	2	21	20,000	35,000	75,000	1,10,000	15,000	1,15,000
36 Tirunelveli-Tuticorin*	12	92	2	12	52	78	3	184	1,79,057	2,97,977	3,10,271	6,38,927	6,37,233	17,96,703
37 Tirunelveli-Tirupathi*	..	..	..	..	..	..	..	33	..	..	..	..	..	2,80,000
38 Udipi	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39 Vellore	106	1,979	5	51	9	60	4	22	16,000	20,530	..	..	..	..
40 Visakhapatnam	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41 Pudukottai State	11	276	6	177	50	9	1	6	14,910	1,80,952	95,941	34,201	1,50,322	2,00,577
42 Pudukottai	..	..	..	..	..	..	..	9	..	..	..	..	..	1,00,000
43 Ramachandrapuram	..	..	..	..	24	30	1	14	9,901	4,000	4,555	5,000	7,615	38,000
44 Ponnasarevathi	26	352	1	15	41	41	3	22	12,000	8,500	10,000	9,000	6,000	(approximate.)
45 Kanara Ceramics, Kasargod.	..	..	..	..	..	5	..	..	..	..	..	..	..	about 32,500

APPENDICES

NOTE.—(a) Connected load in K.W.

(b) Consumption.

(c) Revenue.

(d) Number of consumers.

All the above figures are as furnished by the concerned licensees.

* Not furnished.

APPENDIX F-4.

Statistical data for the Administration Report for the year ending 31st March 1951 (Local authorities).

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1950-51.

Serial number and name of houses.	Number of units generated.	Number of units purchased.	Number of units sold.	Maximum capacity in K.W.	Industrial.							
					Municipal.	Textiles.	Cement works.	Mtues.	Tea estates.	Chemicals.	Steel Rolling mills.	Small Industries.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1 Alandur ..	..	Taken over by Government on 25th Jan. 1951.	..	..	(a)	..	..	..	..	..	..	..
2 Bellary (*) ..	..	Taken over by Government on 10th May 1950.	..	..	(a)	..	..	..	..	..	..	..
3 Bodinayakanur ..	..	Particulars not available.	..	..	(a)	..	..	..	..	..	..	..
4 Coimbatore ..	..	64,21,925 49,87,702 2,520 KW Jan. 1951 Feb. 1951.	..	..	(a)	244 46,304* 97,386 194 Rs. 7,655† Rs. 5,168 14	..	..	..	..	..	1,841 * 10,32,869 † Rs. 61,900 242
5 Coonoor ..	..	9,30,667 797,154 ..	..	..	(a)	3,379 Rs. 1,041 18	..	..	87,748 Rs. 4,550 5	..	..	202,764 Rs. 15,548 29
6 Dindigul ..	..	19,45,183 17,02,373 540 KW	..	..	(a)	38 44,885 Rs. 4,347 30	..	..	..	..	..	857 7,94,561 Rs. 64,496 84
7 Dharmapuri ..	..	4,23,060 8,72,395 156 KVA	..	..	(a)	32 95,109 Rs. 11,472 1	..	..	..	..	..	155 71,033 Rs. 5,143 21
8 Hindupur (*) ..	..	Taken over by Government on 30th June 1950.	..	..	(a)	..	..	..	..	..	..	..
9 Koppet (*) ..	..	Taken over by Government on 18th Mar. 1951.	..	..	(a)	..	..	..	..	..	..	..

APPENDICES

Serial number and name of houses.	Number of units generated.	Number of units purchased.	Number of units sold.	Maximum capacity in K.W.	Industrial.							
					Municipal.	Textiles.	Cement works.	Mtues.	Tea estates.	Chemicals.	Steel Rolling mills.	Small Industries.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
10 Kakinada ..	..	Particulars not available.	..	..	(a)	..	..	..	..	..	..	..
11 Kancheepuram ..	..	19,77,333 17,31,371 586 KW	..	..	(a)	54 1,10,500 38,699 43 Rs. 10,253 Rs. 8,079 14	..	..	..	..	..	593 410,183 Rs. 36,553 81
12 Karur ..	..	957,277 882,034 350 KW	..	..	(a)	55 170,628 Rs. 14,358 20	..	..	..	..	..	387 277,541 Rs. 22,167 41
13 Kodakana ..	..	245,427 215,979 141 KW	..	..	(a)	..	..	..	..	..	..	59 22,626 Rs. 3,303 8
14 Mathur ..	..	11,279,935 .. 3,220 KW	..	..	(a)	..	..	..	..	..	..	..
15 Masulipatnam ..	..	964,870 820,561 320 KW	..	..	(a)	66 275,802 Rs. 33,789 1	..	..	..	..	..	400 235,082 Rs. 21,806 57
16 Ootacamund ..	..	3,131,941 2,732,127 1,160 KW	..	..	(a)	11,209 Rs. 2,088	..	..	..	..	..	15,491 Rs. 1,047
17 Pollachi ..	..	1,922,740 1,611,915 510 KW	..	..	(a)	61 125,083 Rs. 16,108 17	..	..	..	..	..	1,184 1,065,723 Rs. 61,418 83
18 Paim ..	..	832,569 548,160 204 KW	..	..	(a)	23 KW. 54,147 Rs. 6,434 3	..	..	..	..	..	281 K.W. 213,463 Rs. 11,672 31
19 Periyakulam ..	..	419,363 371,232 134 KW	..	..	(a)	31 78,932 Rs. 10,380 1	..	..	..	..	..	153 116,946 Rs. 8,769 51
20 Ramoswaram (*) Panchayat Board.	..	Particulars not available.	..	..	(a)	..	..	..	..	..	..	..

* Not furnished.

* Up to 31st March 1951

APPENDIX T-4—cont.

Statistical data for the Administration Report for the year ending 31st March 1951 (Local authorities)—cont.

Total connected load in KW. with consumption, revenue and number of consumers at the end of 1950-51.												
Serial number and name of licensee.	Number of units generated.	Number of units purchased.	Number of units sold.	Maximum demand in KW.	Industrial.							
					Municipal.	Textiles.	Cement works.	Mines.	Tea estates.	Chemicals.	Steel rolling mills.	Small Industries.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
21 Rameswaram Devasthanam.	..	Particulars not available.	..	184 KW	..	..	..	..	..	..	..	..
22 Sembium ..	..	Do.	..	..	..	..	..	..	..	..	..	..
23 Sivakasi ..	..	607,064	516,704	184 KW	26 59,538 Rs. 8,621	..	..	..	..	..	..	293 190,018 Rs. 13,074
24 Tiruvallur ..	..	892,452	..	203 KW	30 55,850 Rs. 58,094	..	..	..	..	..	..	142 13,924 Rs. 13,924
25 Tiruppur ..	..	1,620,340	1,450,000	540 KW	55 103,000 (*) 27	..	..	..	..	..	..	133 220,554 (*) 194
26 Tanjore ..	..	2,860,953	2,454,313	830 KW	300 665,385 Rs. 58,094	..	..	..	..	..	..	1,086 756,036 Rs. 51,107
27 Tiruvalliyur ..	..	Particulars not available.	..	..	..	..	..	..	..	..	..	..
28 Tirupathur (N.A.) ..	..	535,131	468,203	185 KW	28 51,153 Rs. 6,930	7 15 Rs. 1	..	..	..	..	..	269 204,329 Rs. 12,111
29 Tiruvannamalai ..	..	Particulars not available.	..	..	..	..	..	..	..	..	..	..
30 Ulpetadam ..	..	539,553	460,938	160 KW	11 11,230 Rs. 1,401	..	..	..	..	..	..	233 143,703 Rs. 5,630
31 Vijayavada (*) ..	..	Particulars not available.	..	..	..	..	..	..	..	..	..	..
32 Virudunagar ..	..	1,758,395	1,585,963	500 KW	78 353,417 Rs. 18,459	..	..	..	..	..	..	767 943,580 Rs. 52,521
33 Villivakkam ..	..	Taken over by Government on 13th Feb. 1951.	..	..	..	..	..	..	..	..	..	..
34 Wellington Cantt. ..	..	132,316	127,140	67 KVA	..	..	..	..	..	..	..	34 32,386 Rs. 1,956

Statistical data for the Administration Report for the year ending 31st March 1951 (Local authorities)—cont.

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1950-51—*cont.*

Total connected load in K. W. with consumption, revenue and number of consumers at the end of 1950-51—cont.										Rural electrification.			
Railways.		Government departments.	Panchayat boards.	Agricultural.	Domestic lighting and power.	Miscellaneous.	Total connected load in K.W.	Number of high-tension and low-tension consumers as on 31st March 1950.		Number of agricultural pump sets and total horse-power.			
(14)	(15)	(16)	(17)	(18)	(19)	(20)	High tension.	Low tension.	As on 31st March 1950.	Number.	Horse-power.		
(a)	(a)	(a)	(a)	(a)	(a)	(a)	(21)	(22)	(23)	(24)	(25)		
(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)	(b)		
(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)	(c)		
(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)		
1 Alandur ..	..	..	..	..	..	..	..	..	..	..	..		
2 Bellary ..	..	..	..	..	..	..	..	..	..	..	..		
3 Bodinayakanur ..	..	..	..	..	..	..	..	..	..	..	..		
4 Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..		
5 Coonoor ..	..	..	..	..	..	..	..	..	..	..	..		
6 Dindigul ..	..	..	..	..	..	..	..	..	..	..	..		
7 Dharapuram ..	..	..	..	..	..	..	..	..	..	..	..		
8 Hindupur ..	..	..	..	..	..	..	..	..	..	..	..		
9 Hospet ..	..	..	..	..	..	..	..	..	..	..	..		

[illegible]

• Not furnished.

APPENDIX F.4—cont.

Statistical data for the Administration Report for the year ending 31st March 1951 (Local authorities)—cont.

		Total connected load in K.W. with consumption, revenue and number of consumer to the end of 1950-51—cont.				Total connected load in K.W.		Number of high-tension and low-tension consumers as on 31st March 1951.		As on 31st March 1951.		Rural electrification.	
		Railways.	Government departments.	Panchayat boards.	Agricultural.	Domestic lighting and power.	Miscellaneous.	High tension.	Low tension.	Number.	Horse-power.	Number.	Horse-power.
		(14)	(15)	(16)	(17)	(18)	(19)	(21)	(22)	(23)	(24)	(25)	(26)
21 Rameswaram Devasathanam.	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
22 Sembiam ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
23 Sivakasi ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
24 Trivellore ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
25 Tiruppur ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
26 Tanjore ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
27 Tiruvottiyur ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
28 Tirupattur (N.A.) ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
29 Tiruvannamalai ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
30 Udumalpet ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
31 Vijayavada ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
32 Virudhunagar ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
33 Villivakkam ..	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..
34 Wellington Cantonment.	(a)	..	..	..	..	..	..	..	..	..	..	..	..
(b)	(b)	..	..	..	..	..	..	..	..	..	..	..	..
(c)	(c)	..	..	..	..	..	..	..	..	..	..	..	..
(d)	(d)	..	..	..	..	..	..	..	..	..	..	..	..

* Not furnished.

APPENDIX F.4—cont.

Statistical data for the Administration Report for the year ending 31st March 1951 (Local authorities)—cont.

Rural electrification—cont.																
Number of rural industries and total horse-power.				Length of lines in miles.		Number of distribution transformers.		Expenditure on rural electrification.					Population of area of supply.			
As on 31st March 1951.		Connected during the year 1950-51.		High-tension.	Low-tension.	Erected during the year 1950-51.	Total number at the end of 1950-51.	1950-51. 1949-50. 1948-49. 1947-48. 1946-47.					(40)			
Number.	Horse power.	Number.	Horse power.					(35)	(36)	(37)	(38)	(39)				
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	RS.	RS.	RS.	RS.	RS.	(40)			
1 Alandur ..	..	..	..	..	..	..	..	..	..	..	..	..	13,213			
2 Bellary ..	..	..	..	..	..	..	..	..	..	..	..	..	..			
3 Bodinayakanur ..	..	..	..	..	..	..	..	..	..	..	..	..	..			
4 Coimbatore ..	..	..	..	15.0	84.0	..	27	..	..	..	..	..	1,94,555			
5 Coonoor ..	..	..	..	6	27	..	8	..	..	..	..	..	18,781			
6 Dindigul ..	..	..	..	..	..	..	..	..	..	..	..	..	78,654			
7 Dharapuram ..	..	..	..	1	19	..	2	..	..	..	..	..	24,206			
8 Hindupur ..	..	..	..	..	..	..	..	..	..	..	..	..	..			
9 Hospet ..	..	..	..	..	..	..	..	..	..	..	..	..	..			
10 Kakinada ..	..	..	..	..	..	..	..	..	..	..	..	..	..			
11 Kancheepuram ..	..	..	..	..	..	..	..	..	..	..	..	..	..			
12 Karur ..	..	..	..	2	21	1 No. 100 KVA.	5	..	..	..	..	..	85,043			
13 Kodakanal ..	..	..	..	2	16	..	3	..	..	..	..	..	27,575			
14 Madurai ..	..	..	..	23	96	3	23	..	..	..	..	..	10,946			
15 Masulipatnam ..	..	..	..	..	..	..	..	..	..	..	..	..	3,60,531			
16 Ootacamund ..	4	20	3	15	22	46	19 one belongs to party.	629	1,386	10,432	5,093	988	78,000			
17 Pollachi ..	..	..	..	..	..	..	..	..	..	..	..	..	41,414			
18 Palni ..	85	1,601	5	45	4	23	10	..	..	..	..	..	41,850			
19 Periyakulam ..	..	..	..	..	..	..	..	..	..	..	..	..	35,000			
20 Rameswaram Pan-chayat Board ..	..	..	..	..	0.19	12	2	..	..	..	..	..	31,012			
21 Rameswaram Devasthanam ..	..	..	..	..	..	..	..	..	..	..	..	..	..			
22 Sembiam ..	5	..	..	..	..	..	..	..	..	..	..	..	..			
	..	..	..	..	..	..	..	..	..	..	..	..	..			

APPENDICES

23 Sivakasi ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16,627
24 Tiruvallur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13,183
25 Tiruppur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	60,000
26 Tanjore ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	68,722
27 Tiruvotiyur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Nearly
28 Tirupattur (N.A.) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30,000
29 Tiruvannamalai ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30 Udumalpet ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	23,366
31 Vijayavada ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32 Virudhunagar ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	46,465
33 Villivakkam ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34 Wellington Cantonment ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8,255

Note.—(a) Connected load in K.W.
 (b) Consumption.
 (c) Revenue.
 (d) Number of consumers.

All the above figures are as furnished by the concerned licensee

APPENDICES

Classification of units sold by electric licensees (Companies).

Serial number and name of licensee.	Industrial.	Agricultural.	Domestic.	Commercial.	Public lighting.	Traction.	Bulk supplies.	Miscellaneous.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1 Adoni	(Particulars not available.)			140,824	28,020	..	..	1,215	444,395
2 Anakapalle	118,979	5,729	149,598						
3 Ambur-Vaniyambadi	(Particulars not available.)								
4 British Cochin	15,679	..	80,710	101,204	15,230	..	..	..	212,823
5 Bobbili	151,464	1,356	42,036	49,014	10,603	..	..	20,210	274,633
6 Kozhikode	2,524,773	..	1,411,444	210,938	169,390	..	655,416	82,733	5,055,199
7 Chittoor	359,016	130,496	32,896	54,067	63,885	..	..	1,865	938,225
8 Chingleput	164,839	572,938	117,737	204,602	46,440	..	..	17,734	1,279,390
9 Cannanore-Tellicherry	3,647,533	..	630,049	60,415	94,771	..	..	..	4,493,708
10 Srikakulam	(Particulars not available.)								
11 Devakottah	(Do.)								
12 East Tanjore	3,292,541	92,427	873,437	1,145,915	600,124	..	1,858,246	245,251	8,082,941
13 East Ramanathapuram	771,701	156,762	408,582	269,864	252,187	..	3,577,640	110,876	5,545,612
14 East Coast	..	..	2,592	2,791	10,246	..	..	..	15,539
15 Eluru	480,525	7,761	408,785	(Included under Industrial.)	62,730	..	..	..	968,801
16 Guntur	2,043,256	187,850	693,335	732,929	178,460	..	..	5,412	4,440,672
17 Godivada	(Particulars not available.)								
18 Kanadukathan	(Do.)								
19 Kumbakonam	1,693,361	27,305	1,435,333	147,961	274,242	..	..	..	3,578,207
20 Karaikal	(Particulars not available.)								
21 Mangalore	1,109,412	957	1,065,457	..	173,797	..	126,383	181,636	2,648,692
22 Nellore	216,060	3,129	145,372	156,000	17,156	..	..	305,893	843,610
23 Nagapattinam	1,639,346	174	402,068	..	344,941	..	..	2,9,733	2,726,317
24 Nattarasankottai	149,108	3,725	119,720	15,950	47,876	..	..	..	336,373
25 Narasimhapet	(Particulars not available.)								
26 Ongole	(Particulars not furnished.)								
27 Ponnani	(Licence revoked on 25th August 1950.)								
28 Palghat	357,821	19,785	338,937	299,728	97,400	..	..	..	1,113,731
29 Proddatur	(Taken over on 29th December 1950.)								
30 Rajahmundry	275,960	434	230,699	504,334	53,050	..	..	361,901	1,436,433

APPENDICES

31 Salem-Frode	5,288,644	344,257	2,143,632	656,820	421,552	..	4,750,006	..	13,605,271
32 South Arcot	2,305,055	10,320,902	418,577	1,322,434	203,933	..	1,145,493	170,802	15,887,246
33 Salur-Paravathipur	(Particulars not furnished.)			combined.					
34 Srivilliputtur	2,808,907	253,739		431,006	164,666	..	26,737	29,856	3,715,511
35 Tiruchirappalli-Stranganam	26,795,244	1,348,293	2,408,544	1,536,505	955,487	..	..	1,736,052	34,830,100
36 Tirunelveli-Tuticorin	1,958,790	31,052	1,784,413	350,807	439,055	..	1,218,876	..	5,811,993
37 Tirumalai-Tirupati	(Particulars not furnished.)								
38 Udipi	(Do.)								
39 Velore	1,914,423	245,358	1,621,169	102,474	366,002	..	..	284,943	4,434,374
40 Visakhapatnam	531,236	..	933,222	1,151,333	164,556	..	..	23,791	2,854,138
41 Pudukkottai State	2,684,871	24,289	16,227	8,723	24,769	..	2,957,377	76	5,746,332
42 Pudukkottai	218,536	..	200,533	265,297	123,419	..	179,391	110,362	1,103,538
43 Ramachandrapuram	144,657	5,070	141,189	6,086	55,605	..	..	5,445	358,352
44 Ponnasravathy	913,065	24,179	128,105	61,007	73,064	..	453,535	1,344	1,659,299
45 Kanara Ceramics, Limited, (sanctioned under section 28), Kasaragod	2,315	..	32,119	..	9,498	..	..	3,732	47,664

APPENDICES

Note.—All the particulars are as furnished by the concerned licensees.
 * Figures relate to the calendar year 1950.

APPENDIX F-6.

Classification of units sold by electric licensees (Local authorities).

Serial number and name of licensee.	Industrial.	Agricultural.	Domestic.	Commercial.	Public lighting.	Traction.	Bulk supplies.	Miscellaneous.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1 Alandur ..	145,630	255	104,424	8,122	32,907	..	..	3,012	294,359
2 Bellary ..	(Taken over by Government on 10th May 1950.)	..	..	..	..	..	..	..	..
3 Bodinayakanur ..	(Particulars not available.)	..	..	..	..	..	..	..	..
4 Coimbatore ..	1,130,255	367,025	1,882,682	1,102,132	435,638	..	..	..	4,987,702
5 Coonoor ..	208,555	..	149,600	20,222	70,472	..	..	..	737,154
6 Dindigul ..	801,548	12,035	221,151	409,312	255,128	..	..	..	1,702,373
7 Dharapuram ..	71,033	33,704	113,019	41,225	95,109	..	..	..	372,395
8 Hindupur ..	(Taken over by Government on 30th June 1950.)	..	..	..	..	..	..	..	..
9 Hospet ..	(Particulars not available.)	..	..	..	..	..	..	..	..
10 Kakinada ..	(Taken over by Government on 10th March 1951.)	..	..	..	..	..	..	..	..
11 Kancheepuram ..	448,792	307,706	552,384	13,967	315,867	..	..	..	1,731,371
12 Karur ..	277,541	12,756	184,468	24,325	78,678	..	..	..	882,034
13 Kodaikanal ..	22,026	..	63,777	63,737	60,619	..	..	..	215,979
14 Madurai ..	(Particulars not furnished.)	..	..	..	..	..	..	..	..
15 Masulipatnam ..	310,219	6,703	347,718	36,861	55,421	..	..	..	820,561
16 Ootacamund ..	442,433	..	556,738	264,022	206,967	..	..	..	2,732,137
17 Pollachi ..	1,074,878	60,907	349,680	106,034	171,320	..	..	..	1,611,915
18 Palni ..	213,463	13,393	107,088	150,319	54,147	..	..	..	548,160
19 Periyakulam ..	116,943	23,821	186,735	8,718	73,952	..	..	..	371,232
20 Ramswaram Panchayat Board ..	(Particulars not available.)	..	..	..	..	..	..	..	..
21 Ramswaram Devasthanam ..	(Do. Do.)	..	..	..	..	..	..	..	..
22 Sembur ..	100,078	62,394	173,626	22,749	56,645	..	..	..	516,704
23 Sivakasi ..	..	..	..	..	..	..	..	..	..
24 Trivellore ..	220,554	80,611	482,960	(Included in domestic.)	168,000	..	..	..	1,450,000
25 Tiruppur ..	..	..	..	..	..	..	..	..	..
26 Tanjore ..	756,636	66,305	649,151	..	327,549	13,290	..	..	2,484,813
27 Tiruvottiyur ..	(Particulars not available.)	..	..	..	..	..	..	..	..
28 Tirupattur (North Arcot) ..	263,293	3,030	159,272	39,341	51,747	..	..	..	468,205
29 Tiruvannamalai ..	(Particulars not available.)	..	..	..	..	..	..	..	..
30 Udumalpet ..	13,221	70,855	66,930	76,787	71,261	..	..	..	460,958
31 Vijayavada ..	(Particulars not available.)	..	..	..	..	..	..	..	..
32 Virudhunagar ..	893,226	31,432	222,351	263,839	122,761	..	..	..	1,585,963
33 Villivakkam ..	(Taken over by Government on 15th February 1951.)	..	..	..	..	..	..	..	..
34 Wellington Cantonment ..	35,366	..	68,158	..	23,586	..	..	..	127,140

Note.—All the above figures are as furnished by the concerned licensees.

APPENDIX G-1.

List of H.T. consumers supplied directly by the Electricity department—Pykara System.

Serial number, name of the consumer and name of the place.	Serial number, name of the consumer and name of the place.
I. Cement.	VII. Municipalities—cont.
1 The Associated Cement Works, Madukkarai, Coimbatore.	69 Dharapuram Municipality.
II. Textiles.	70 Periyakulam Municipality.
2 Coimbatore Spinning and Weaving Company, Limited, Coimbatore.	71 Rodinackannur Municipality.
3 Vasantha Mills, Limited, Coimbatore.	72 Kodaikanal Municipality.
4 Cambodia Mills, Limited, Coimbatore.	73 Udumalpet Municipality.
5 Rajalakshmi Mills, Limited, Coimbatore.	VIII. Licensees.
6 Somasundara Mills, Limited, Coimbatore.	74 West Coast Electric Supply Corporation, Limited Kozhikode.
7 Dhanalakshmi Mills, Limited, Tiruppur.	75 West Coast Electric Supply Corporation, Limited, Cannanore (Tellicherry).
8 Kaleeswarar Mills, Limited, Coimbatore.	76 Palghat Electric Supply Corporation, Limited, Palghat.
9 Rangavilas Mills, Limited, Coimbatore.	IX. Other Governments.
10 Pankaja Mills, Limited, Coimbatore.	77 Cochin Government—Supply near Chittoor within Madras State boundary (for Chittoor Electrification).
11 Lakshmi Mills, Limited, Coimbatore.	78 Cochin Government—Supply near Shiekalmudi in Anamalais (for construction purposes for Porin-zalkuthu Hydro-Electric Scheme of Cochin Government).
12 Sri Ramalinga Chowdambigai Mills, Limited, Tiruppur.	X. Government departments
13 Coimbatore Cotton Mills, Limited, Coimbatore.	79 Central Jail, Coimbatore.
14 Sarada Mills, Limited, Coimbatore.	80 Agricultural College, Coimbatore.
15 Lotus Mills, Limited, Coimbatore.	81 Madras Forest College, Coimbatore.
16 Palaniandavar Mills, Limited, Udumalpet.	82 The Government Malt Factory, Coimbatore.
17 Janardhana Mills, Limited, Coimbatore.	83 Government Sugarcane Breeding Station, Coimbatore.
18 Sri Palamalai Ranganathan Mills, Limited, Perianaickenpalayam, Coimbatore.	84 Sulu Aerodrome.
19 The Venkatesa Mills, Limited, Udumalpet.	85 Superintending Engineer, Moyar. (Construction works at Moyar and Masinagudi.)
20 Murugan Mills, Limited, Coimbatore.	86 Superintending Engineer, Moyar. (Construction works at Pykara Dam III Stage extensions.)
21 Saroja Mills, Limited, Coimbatore.	87 Lower Bhavani Project.*
22 Pioneer Mills, Limited, Coimbatore.	XI. Tea Estates, Anamalais.
23 Radhakrishna Mills, Limited, Coimbatore.	88 Vellamalai Estate.
24 Gnanambigai Mills, Limited, Coimbatore.	89 Pachemalai Estate.
25 Vijayalakshmi Mills, Limited, Coimbatore.	90 Akkamalai Estate.
26 Kamala Mills, Limited, Coimbatore.	91 Kallayar Estate.
27 Buckingham and Carnatic Mills, Limited, Tiruppur.	92 Monica Estate.
28 Tirumurthi Mills, Limited, Udumalpet.	93 Iyerpadi Estate.
29 Balasubramania Mills, Limited, Coimbatore.	94 Sheikalmudi (Murugally) Estate.
30 Soundararaja Mills, Limited, Dindigul.	95 Uralikal Estate.
31 Kothari Textiles, Limited, Tiruppur.	96 Anamalai Ropeway Company.
32 Asher Textiles, Limited, Tiruppur.	97 Injiparai Estate.
33 The Kasthuri Mills, Limited, Coimbatore.	98 Stanmore Estate.
34 The Kumaran Mills, Limited, Coimbatore.	99 Nallakathu Estate.
35 Jayalakshmi Mills, Limited, Coimbatore.	100 Srikundra Estate.
36 Vinodha Ginning Factory, Limited, Dindigul.	101 High Forest.
37 Rathna Cotton Ginning Press Factory, Limited, Dindigul.	102 Karamalai Estate.
38 Premier Mills, Limited, Udumalpet.	103 Kadalapalai Estate.
39 Kadhri Mills, Limited, Coimbatore.	104 Sellalapai Estate.
40 Karthikeya Mills, Limited, Coimbatore.*	105 Mount Stuart Estate.
41 Jagannatha Ginning Factory, Coimbatore.*	106 Mallikuparai Estate.
42 The Kannapiran Mills, Limited, Coimbatore.*	107 Thaimudi Estate.
43 The Pollachi Bhagyalakshmi Mills, Limited, Pollachi.*	108 Sholayar Estate.
44 Sri Devi Weavings, Limited, Devela, Coimbatore.	109 Naduvur Estate.
III. Mines.	XII. Tea Estates, Nilgiris.
45 Nilambur Mines, Limited, Devela (Nilgiris).	110 Bengorm Estate.
IV. Oil.	111 Devarshola Estate.
46 The Bharat Mills, Limited, Pollachi.	112 Glandale Estate.
47 G. Ramaswami and Company, Coimbatore.	113 Parkside Estate.
48 The Coimbatore Oil Mills, Limited, Coimbatore.	114 Nonsuch and The Estate.
49 The Radhakrishna Oil Mills, Limited, Pollachi.	115 Prospect Estate.
50 K. M. M. Khader Mohideen Oil Mills, Dindigul.	116 Terrace Estate.
51 Jaya Oil Mills and Products, Limited, Pollachi.	117 Kilkotagiri Estate.
V. Water Works.	118 Thuttapallam Estate.
52 Ambarampalayam Water Works, Pollachi.	119 Rousdenmulli Estate.
VI. Other Industries.	120 Kilmafart Estate.
53 The General Manufacturing Corporation, Limited, Coimbatore.	121 Dundasdale Estate.
54 The Brooke Bond (India), Limited, Coimbatore.	122 Uniasola Estate.
55 Argus Engineering Company, Limited, Coimbatore.	123 Sussex Group Tea Estates.
56 Textool Company, Limited, Coimbatore.	124 Sutton Estates.
57 Asher Industries, Limited, Coimbatore.	125 Terrania Estates.
58 National Manure Works, Limited, Udumalpet.	126 Farm Tea Estates.
59 Praga Industries, Coimbatore.	127 Mailoor Estate.
60 Cordite Factory, Aruvankadu.	128 New Katteri Estate.
61 The Ramakrishna Industries, Coimbatore.*	129 Mayfield Estate.
62 The Amer Hind Manufacturers, Limited, Coimbatore.	130 Devarshola Estate.
VII. Municipalities.	131 Craigmore Estate.
63 Coimbatore Municipality.	132 Kotada Estate.
64 Pollachi Municipality.	133 Rockwood Estates.
65 Tiruppur Municipality.	134 Woodbriar Estates.
66 Ootacamund Municipality.	135 Chamraj Estates.*
67 Palni Municipality.	
68 Dindigul Municipality.	

* New services connected up in 1950-51.

APPENDIX G-2.

*List of H.T. consumers supplied directly by the Electricity department—
Mettur Electricity System.*

- INDUSTRIES.**
- (a) *Textiles.*
- 1 The Mettur Industries, Ltd., Mettur Dam.
 - 2 The Thirumagal Mills, Gudiyatham.
 - 3 The Kandan Textiles, Ltd., Walajabad.
 - 4 The Rajeswari Mills, Gudiyattam.
- (b) *Chemicals.*
- 5 The Mettur Chemical and Industrial Corporation, Ltd., Mettur Dam.
- (c) *Others.*
- 6 The Indian Metal and Metallurgical Corporation, Mettur Dam.
 - 7 The Deccan Sugar and Abkari Co., Ltd., Pugalur.
 - 8 The Dhanalakshmi Oil Mills, Bhavan.
 - 9 The Erode Water Works, Erode.
 - 10 The Nellore Mines, Lignite investigation, Gangai-kondan Post, South Arcot district.
 - 11 The South Kolar Gold Mines, Ltd., Narayanagar, Jolarpet R.M.S.
 - 12 The Solar Industries and Trades, Ltd., Punjai Lakkapuram, Erode.
 - 13 The Erode Bleaching and Finishing Co., Erode.
 - 14 The Tirukkollur Oil Mills, Ltd., Tirukkollur.
 - 15 Messrs. P. K. Ardhani Chetty & Sons, Rasipuram.
- LICENSEES.**
- 16 The Vellore Electric Corporation, Vellore.
 - 17 The Vellore Electric Corporation, Ranipet.
 - 18 The Chittoor Electric Supply Corporation, Chittoor.
 - 19 The Carnatic Electric Supply Corporation, Ambur.
 - 20 The Salem-Erode Electricity Distribution Co., Salem.
 - 21 The Salem-Erode Electricity Distribution Co., Erode I Point.
 - 22 The Salem-Erode Electricity Distribution Co., Erode II Point.
 - 23 The Salem-Erode Electricity Distribution Co., Erode R.S.
 - 24 The Salem-Erode Electricity Distribution Co., Sankari.
 - 25 The Salem-Erode Electricity Distribution Co., Pallinayam.
 - 26 The South Madras Electricity Supply Corporation, Tiruchirappalli.
 - 27 The South Madras Electric Supply Corporation, Mayanoor.
 - 28 The South Madras Electric Supply Corporation, Vallam.
- LICENSEES—cont.**
- 29 The South Madras Electric Supply Corporation, Tiruvannur.
 - 30 The Negapatnam Electric Supply Corporation, Co., Nagapattinam.
 - 31 The Kumbakonam Electric Supply Corporation, Kumbakonam.
 - 32 The South Arcot Electricity Distribution Co., Villupuram.
 - 33 The Chingleput Electric Supply Corporation, Chingleput.
 - 34 The Chingleput Electric Supply Corporation, Reddipalayam.
 - 35 The Chingleput Electric Supply Corporation, Villampakkam.
 - 36 The Tirumalai-Tirupati Devasthanam, Tirupati.
 - 37 The Tirumalai Municipality.
 - 38 The Karur Municipality.
 - 39 The Tirupattur Municipality.
 - 40 The Kancheepuram Municipality.
 - 41 The Tiruvallur Municipality.
 - 42 The Tiruvannamalai Municipality.
 - 43 The French India Government, Pondicherry.
- OTHERS.**
- 44 The South Indian Railway, Tiruchirappalli.
 - 45 The South Indian Railway, Erode.
 - 46 The Madras and Southern Mahratta Railway, Arkonam.
 - 47 The Madras and Southern Mahratta Railway, Jalarpet.
 - 48 The Executive Engineer, P.W.D., Mettur Dam.
 - 49 The Executive Engineer, I.R.D., Poondi.
- TEXTILES.**
- 1 Trichinopoly Mills, Ltd., Tiruchirappalli.
 - 2 Meenakshi Mills, Ltd., Tiruchirappalli.
 - 3 Pullar Mills, Ltd., Tiruchengode.
 - 4 Jawahar Mills, Ltd., Salem.
 - 5 Rajendra Mills, Ltd., Salem.
 - 6 Savana Mills, Pondicherry.
 - 7 Mudallarpur Mills, Pondicherry.
- OTHER INDUSTRIES.**
- 8 Dalmia Cement Factory.
 - 9 Indian Steel Rolling Mills, Ltd., Nagapattinam.
 - 10 Nellikuppam Sugar Factory.
 - 11 The Vegetols, Ltd., Chittoor.
 - 12 C.M.C. Hospital, Vellore.
 - 13 Sudarana Oil Mills, Katpadi.

APPENDIX G-3.

List of H.T. consumers—Papanasam Electricity System.

Direct supply by Government.

- Textiles.**
- 1 Madura Mills (Dunlop Yarn Plant), Madurai.
 - 2 Meenakshi Mills, Ltd., Madurai.
 - 3 Pandiyan Mills, Madurai.
 - 4 Mahalakshmi Mills, Pasumalai.
 - 5 Kothandaram Mills, Madurai.
 - 6 Rajah Mills, Madurai.
 - 7 Madura Mills, Virudhunagar.
 - 8 East India Corporation, Ltd., Sattur.
 - 9 Lakshmi Mills, Kollipatti.
 - 10 Loyal Mills, Kollipatti.
 - 11 Madura Mills, Ambasamudram.
 - 12 Karthikeyan Mills, Veeravanallur.
 - 13 Madura Mills (Ginning Factory), Kadambur.
- Oil Mills.**
- 14 A. T. Parangiri Nadar, Virudhunagar.
 - 15 T. M. M. Mathalai Nadar, Virudhunagar.
 - 16 T. M. S. Mathalai Nadar, Virudhunagar.
 - 17 Southern Oil Mills, Virudhunagar.
 - 18 M. S. Paramasiva Nadar, Virudhunagar.
 - 19 K. C. A. S. Durairaj Nadar, Sivakasi.
 - 20 Orient Products, Tirumangalam.
- Cement.**
- 21 India Cement, Ltd., Thalajuthu.
- Agricultural and other industries.**
- 22 Agricultural and Industrial Farms, Pudugramam.
- Municipal Licensees.**
- 23 Madurai Municipality.
 - 24 Virudhunagar Municipality.
 - 25 Sivakasi Municipality.
- Other Licensees.**
- 26 South Madras Electric Supply Co., Tiruchirappalli.
 - 27 West Ramnad Electric Distribution Co., Rajapalayam.
 - 28 Tirunelveli-Tuticorin Electric Supply Co., Tuticorin.
 - 29 Nattarasankottai Electric Supply Co., Nattarasankottai.
 - 30 Singampunari Supply.
 - 31 Shencottah Licensees, Shencottah.
- Others.**
- 32 Virudhunagar Water works, Virudhunagar.
 - 33 Government of Travancore and Cochin Union.

APPENDIX G-4.

*List of H.T. consumers supplied directly by the Electricity department—
Madras Electricity System.*

- List of high tension consumers.**
- 1 * Addison & Co.
 - 2 Addison's Paint Factory and Saw Mill (Sembium).
 - 3 Ashok Motors.
 - 4 * Associated Printers.
 - 5 A.V.M. Studios.
 - 6 Buckingham and Carnatic Mills.
 - 7 Christian College, Tambaram.
 - 8 City Ice Factory.
 - 9 Corporation of Madras (Kilpauk Pumping Station).
 - 10 Do. Street Lighting.
 - 11 * Corporation Cold Storage.
 - 12 * Cromptons Workshop, Tiruvottiyur.
 - 13 Engineering College, Guindy.
 - 14 East Asiatic Co. (India), Ltd.
 - 15 * Government Milk Plant.
 - 16 Gordon Woodroffe Leather Manufacturing Co., Ltd.
 - 17 Government Broadcasting Station, Guindy.
 - 18 Government Medical Stores, Periamet.
 - 19 Government Press, Mint Street.
 - 20 Hindu (Kasturi and Sons), Ltd.
 - 21 Hindusthan Metal Refinery and Rolling Mills, Tondiarpet.
 - 22 Indian Express, Mount Road.
 - 23 Indian Oxygen and Acetylene Co., Ltd., Tondiarpet.
 - 24 * India Pistons, Ltd., Perambur.
- List of high tension consumers—cont.**
- 25 Madras and Southern Mahratta Railway.
 - 26 * Mail.
 - 27 Madras Race Club, Guindy.
 - 28 Military Pumping Station, Anakaputhur.
 - 29 * Madras Institute of Technology.
 - 30 Madras Port Trust.
 - 31 Massey and Co., Rayapuram.
 - 32 Madras Electric Tramways (1904), Ltd.
 - 33 Mysore Vegetable Oil Products, Ltd., Cochrane Basin Road.
 - 34 * Metal Box Company.
 - 35 * Nazir Hussain Tannery.
 - 36 R. N. A. S., Tambaram.
 - 37 Richardson and Cruddas, Kasimode, works: Rayapuram.
 - 38 * Simpson.
 - 39 Spencer.
 - 40 Sundaram Motors.
 - 41 * Standard Motors, Chromepet.
 - 42 South Indian Railway (Main Supply, Egmore).
 - 43 Do. (Emergency Supply, Beach.)
 - 44 Sembium Panchayat.
 - 45 South Indian Royal Ice Factory, Egmore.
 - 46 Theosophical Society, Adyar.
 - 47 Tiruvottiyur (Panchayat).
 - 48 * Vauhini Studios.
 - 49 Wireless Station, Fort St. George.
- * Added during the year 1950-51.

APPENDIX G-5.

List of H.T. consumers supplied directly by the Andhra Power System.

- I. Industries.**
- 1 Scindia Steam Navigation Company.
 - 2 Garbham Mines, Ltd.
 - 3 Chittivalasa Jute Mills.
 - 4 Visakhapatnam Sugars and Refineries.
 - 5 P. Bhaskara Rao.
 - 6 The Visakhapatnam Vegetable and Oil Products, Ltd., Seethanagaram.
 - 7 Sree Rama Sugars and Industries.
 - 8 Kodur Mines.
- Licensees.**
- 1 Visakhapatnam Electric Supply Corporation, Ltd.—
 - 2 Visakhapatnam Electric Supply Corporation, Ltd., Aerodrome.
 - 3 Visakhapatnam Electric Supply Corporation, Malkapuram.
 - 4 Anakapalle Electric Supply Corporation.
 - 5 Motors and General Stores, Bobbili.
 - 6 Salur and Parvathipur Electric Supply Corporation.
- Vijayavada Industries.**
- 1 Andhra Cement Company.
 - 2 Krishna Chemical Works, Vuyyur.
 - 3 East Coast Food Products, Ltd.
 - 4 Kanakamba Paints and Varnishes, Ltd.
 - 5 Diamond Machinery Works.
 - 6 National Chemical Works.
- II. Licensees.**
- 1 Vijayavada Municipality.
 - 2 Masulipatnam Municipality.
- III. Licensees—cont.**
- 3 Gudivada Electric Supply Corporation.
 - 4 Ellore Electric Supply Corporation.
 - 5 Guntur Power and Light, Ltd., Guntur.
 - 6 Guntur Power and Light, Ltd., Tadepalli.
- III. Kakinada.**
- Licensees—Kakinada Municipality.
- Industrial—National Tobacco Co., Biccavole.
- CEDED DISTRICTS.**
- I. Industrial.**
- 1 India Sugars, Limited.
 - 2 K.V.O.R., Limited.
 - 3 Rayalaseema Mills.
 - 4 Alimchand Topan Doss.
 - 5 Pampaiah and Sons.
- Licensees.**
- 1 Adoni Electric Supply Corporation.
 - 2 Hospet Municipality.
- Rajahmundry.**
- Rajahmundry Electric Supply Corporation.
- VII. Nellore.**
- Nellore Power and Light.
- Others.**
- 1 Tungabhadra Dam, Madras P.W.D.
 - 2 Tungabhadra, Hyderabad P.W.D.
- Others.**
- 1 Visakhapatnam Port.
 - 2 Vizianagaram Estate.

APPENDIX G-6.

List of textile mills and other H.T. consumers, their connected load and maximum demand during 1950-51 in electric licensees' areas.

Serial number and name of electric licensee.	Textile mills.	Other H.T. consumers.	Connected load.	Maximum demand.
(1)	(2)	(3)	(4)	(5)
1 Calicut ..	(1) Malabar Spinning and Weaving Mills, Tiruvannore.	Standard Tile and Clay Works, Feroke.	571.9 K.W. 390.4 "	422.5 K.W. 268.3 "
2 Cannanore-Tellicherry.	(1) Aaron Spinning and Weaving Mills, Ltd., Pappinissery. (2) Cannanore Spinning and Weaving Mills, Ltd., Cannanore.	(3) Western India Plywood, Ltd., Ballapatam.	1,559.86 " (H.T. 1 + 2 + 3)	868 " (H. T. 1 + 2 + 3)
3 Chittoor Electric Supply Corporation, Ltd., Chittoor.	....	(1) Messrs. Vegetols, Ltd. .. (2) B.V. Reddy and Sons, Chittoor.	250 " 1.50 "	10 " (not furnished).
4 Coimbatore ..	....	(1) Coimbatore Railway Station.	50 "	38 "
5 East Ramana-nathapuram ..	....	(1) Meenakshi Electric Supply Corporation, Devakottai. (2) Meenakshi Sundarasaval Electric Power Corporation, Karaikudi. (3) Kanadukathan Electric Supply Corporation, Chettinad. (4) Chief Mechanical Engineer, South Indian Railway. Supply to Manamadura Junction.	1,430 " 1,792 " 3,094 " (Load included in railways.)	235 " 432 " 520 " 13 "
6 East Tanjore.	....	(1) South Arcot Electric Distribution Company, 10, Mount Road. (2) Karaikal Electric Supply Company, Ltd., Tiruchirappalli. (3) Karaikal Electric Supply Company, Tiruchirappalli. (4) Executive Officer, Panchayat Board, Arantangi. (5) Chief Mechanical Engineer, South Indian Railway, Golden Rock.	1,337 " 663 " 36 " 8 " 43 "	278 " 199 " 18 " 4 " 36 "
7 Gudivada Electric Supply Corporation, Ltd., Gudivada.	....	....	....	....
8 Guntur ..	....	(1) Guntur Vegetable Oil Industries, Ltd. (2) Mohanlal Hariprasad and Brothers.	49 " 56.5 "	9.3 K.V.A. 58 "
9 Kanadukathan.*	(3) Hemalatha Textile, Ltd.	....	301.8 "	287.5 "
10 Madurai ..	(1) Kothandaram Mills. (2) Balakrishna Mills. (3) Madura Knitting Co.	 (1) W.F.P.M. Hospital .. (2) Chintamani Talkies, .. Madurai. (3) South Indian Railway .. (4) N. Radhakrishna Iyer .. (5) Central Cinema .. (6) Madurai Mills (Kochadai Bungalow Residence.) (7) T.V.S. Workshop .. (8) S. M. Sundaram Chettiar (Rice Mill). (9) Municipal Water Works, Kochadai. (10) Rajaratnam Chettiar (Rice Mill and Workshop). (11) Government Erskine Hospital. (12) Madura Devasthanam Temple. (13) R.M.S.S. Sundaram Pillai Rice Mill.	85-100 K.W. 58.45 " 138.6 " 110.928 " 59 " 214.420 " 66 " 75 " 66.720 " 118.660 " 55.950 " 258.940 " 63.416 " 48.556 " 35.780 " 48.490 "	84 K.V.A. 92 " 99 " .. " .. " 120 K.V.A. .. " .. " .. " .. " .. " 182 K.V.A. .. " .. " .. " .. "

* Particulars not furnished by the licensee.

APPENDIX G-6—cont.

List of textile mills and other H.T. consumers, their connected load and maximum demand during 1950-51 in electric licensees' areas—cont.

Serial number and name of electric licensee.	Textile mills.	Other H.T. consumers.	Connected load.	Maximum demand.
(1)	(2)	(3)	(4)	(5)
11 Nagapattinam Electric Supply Corporation, Ltd., Nagapattinam.	....	The Indian Steel Rolling Mills, Nagapattinam.	2,467.0 K.W.	960 K.W.
12 Ootacamund.	....	(1) Coonoor Municipality .. (2) Wellington Cantonment.	938.916 " 204.733 "	406.66 K.V.A. No maximum demand. 215 K.W.
13 Ponnamaravathi Electric Supply Corporation, Ltd.	(1) Pudukkottah Textiles Ltd., Ramasamudram.	....	487 "	164 "
14 The Pudukkottah Electric Supply Co., Ltd.	(1) Messrs. Kanagavel Mills, Ltd., Pudukkottai. (2) Messrs. Dawood Mills, Ltd.	(1) The SriBrahmavidyalambal Electric Supply Company, Limited, Ramachandrapuram.	1,083 " 100 H.P. 190 "	80 K.V.A. 75 "
15 Pudukkottah State Electric Licensee.	(1) Meenakshi Mills, Usilampatti. (2) Cauvery Spinning and Weaving Mills, Vellalur.	....	690 K.W. 372 "	435 " 300 "
16 Rajahmundry Electric Supply Co., Ltd.	....	(1) Pudukkottai Electric Supply Corporation. (2) Ponnamaravathi Electric Supply Corporation, Ponnamaravathi.	1,486 " 2,239 "	390 " 515 "
17 Salem-Erode Electricity Distribution Company, Ltd.	(1) Rajendra Mills, Gandhinagar, Salem. (2) Jawahar Mills, Ltd., Salem. (3) Pullar Mills, Ltd., Tiruchengode.	Rajahmundry Railway station, M.S.M. Railway.	25 "	10 "
18 South Arcot Electricity Distribution Co., Ltd.	....	....	491 " 849 " 391 "	392 " 544 " 224 "
19 Srivilliputtur.	(1) Rajapalayam Mills, Ltd., (2) Ramaraju Surgical and Cotton Mills, Ltd. (3) Jayaram Mills .. (4) The Janakiram Mills. (5) Shanmugam Mills. (6) Chandrasekhara Bharathi Weaving Mills.	(1) Chief Mechanical Engineer, South Indian Railway, Salem Junction. (2) Chief Mechanical Engineer, South Indian Railway, Salem Market. (3) National Starch Industries, Ltd., Salem Junction. (1) Annamalai University, Chidambaram. (2) Messrs. Rallis (India), Ltd., Cuddalore, O.T. (3) Messrs. Madras Vanaspathy, Ltd., Villupuram. (4) Messrs. East India Distilleries and Sugar Factories, Ltd., Nellikuppam.	37,000 " 4,000 " 56,000 " 318 " 90 " 477 " 190 " 430 " 52.63 "	21 " 5.0 " 40.0 " 76 " 106 " 288 " 172 " 325 K.W. 59.6 K.V.A.
20 Tanjore ..	....	(1) Municipal Water Works Pumping Station. (2) Railways ..	104 " 80 "	53 " 20 K.W.

APPENDIX G-6—cont.

List of textile mills and other H.T. consumers, their connected load and maximum demand during 1950-51 in electric licensees' areas—cont.

Serial number and name of electric licensee.	Textile mills.	Other H.T. consumers.	Connected load.	Maximum demand.
(1)	(2)	(3)	(4)	(5)
21 Tinnevely-Tuticorin Electric Supply Co., Ltd.	Sankar Mills Madurai Mills Co., Ltd.	....	150-225 K.W. 854-955 "	53-5 K.W. 480 K.V.A.
		Municipal Water Works, Valanad.	59-950 "	45-93 "
22 Tiruchirappalli-Srirangam electric licensee.	(1) Tiruchinopoly Mills, Ltd., Tiruchirappalli.	....	676 "	360 "
		(1) Messrs. Dalima Cement, Ltd., Dalimapuram (Cement Factory).	6086 "	3,460 "
		(2) Messrs. Dalima Cement Ltd., Dalimapuram (Cement Factory) Pumpsets at Alangudi Mahajan.	15 "	25-5 K.W.
		(3) Station Director, All-India Radio, Tiruchirappalli.	30 "	33-28 "
		(4) Mettur Chemical and Industrial Corporation, Ltd., for Vegetable Ghee Factory at Edamallipatti Pudur, Tiruchirappalli.	415 "	262-5 K.V.A.
23 Vellore .. Nil.		(1) Messrs. Sundarsan Oil Mills, Ltd., Katpadi.	500 "	35 K.W.
		(2) Christian Medical College Hospital, Vellore.	300 "	93 "
24 Vizagapatnam Electric Supply Co., Ltd.	Nil.	(1) B.N.R.	180 "	No maximum demand meter.
		(2) I.E.M.E. Workshops.	27 "	8 K.V.A.
		(3) Andhra University ..	120 "	50 "

APPENDIX H-1.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51.

PYKARA ELECTRICITY SYSTEM.

COIMBATORE DISTRICT.

I. Avanashi taluk.

- 1 Angeripalayam.
- 2 Andipalayam.
- 3 Annur.
- 4 Avanashi.
- 5 Avanashipalayam.
- 6 Avanashilingampalayam.
- 7 Chikadasampalayam.
- 8 Chikkampalayam.
- 9 Chockampalayam.
- 10 Dasampalayam.
- 11 Kalingarayampalayam.
- 12 Kannarpalayam.
- 13 Kadathur.
- 14 Karamadal.
- 15 Karumbapalayam.
- 16 Kattampatti.
- 17 Kannampalayam.
- 18 Kuppalalayam.

- 19 Kallar.
- 20 Maddampalayam.
- 21 Madathupalayam.
- 22 Mangalakuripudur.
- 23 Masagoundenchettipalayam.
- 24 Mettupalayam.
- 25 Mathampalayam.
- 26 Nambampalayam.
- 27 Nallithurai.
- 28 Odenthorai.
- 29 Perumanallur.
- 30 Ponnalgoundanpudur.
- 31 Punalur.
- 32 Rakkiapalayam.
- 33 Thelungupalayam.
- 34 Thirumuruganpundi.
- 35 Thekkampatti.
- 36 Themampalayam.

COIMBATORE DISTRICT—cont.

I. Avanashi taluk—cont.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

PYKARA ELECTRICITY SYSTEM—cont.

COIMBATORE DISTRICT—cont.

I. Avanashi taluk—cont.

- 37 Virugapalayam.
- 38 Vannipalayam.
- 39 Agraharapudur.
- 40 Krishnagoundenpudur.
- 41 Ranganathapuram.
- 42 Kasigoundenpudur.
- 43 Semmandampalayam.
- 44 Belladi.
- 45 Puthur.
- 46 Kempnaickenpalayam.
- 47 Alagappagoundenpudur.
- 48 Ellapalayam.
- 49 Thethampalayam.
- 50 Velayudhampalayam.
- 51 Sembianallur.
- 52 Marudai.
- 53 Ananthagiri.
- 54 Karavalur.
- 55 Kavundampalayam.
- 56 Karuppanampalayam.
- 57 Kalathiyur.
- 58 Kaniampalayam.
- 59 Kaniyampundi.
- 60 Orakkalpalayam.
- 61 Palankarai.
- 62 Pugalur.
- 63 Alampalayam.
- 64 Alangattupuram.
- 65 Giddenpalayam.
- 66 Kanur.
- 67 Komarapalayam.
- 68 Krishnapuram.
- 69 Maranagoundenpudur.
- 70 Mettupalayam.
- 71 Narlampalli.
- 72 Onnipalayam.
- 73 Pillappanpalayam.
- 74 Ramanathapuram.
- 75 Samanaiickenpalayam.
- 76 Thottakalampudur.
- 77 Veerapandi.

II. Coimbatore taluk.

- 78 Agraharasamakulam.
- 79 Athipalayam.
- 80 Bodipalayam.
- 81 Chettipalayam.
- 82 Chitraichavadi.
- 83 Ganapathy.
- 84 Govindanaickenpalayam.
- 85 Idigarai.
- 86 Kalapatti.
- 87 Kallimadal.
- 88 Kandangoundansalai.
- 89 Keeranatham.
- 90 Kondayampalayam.
- 91 Krishnarayapuram.
- 92 Kuniamthur.
- 93 Kurichi.
- 94 Kurudampalayam.
- 95 Machampalayam.
- 96 Madukkarai.
- 97 Maniakaranpalayam.
- 98 Narasimhanaickenpalayampudur.
- 99 Nanjundapuram.
- 100 Neelikonampalayam.
- 101 Ondiputhur.
- 102 Onnipalayam.
- 103 Palathurai.
- 104 Pappanaickenpalayam.
- 105 Pannimadal.
- 106 Perianaickenpalayam.
- 107 Perur.
- 108 Perurichettipalayam.
- 109 Podanur.
- 110 Pudupalayam.
- 111 Samakulam.
- 112 Saravanampatti.
- 113 Sircarsamakulam.
- 114 Souripalayam.
- 115 Thettipalayam.
- 116 Thondamthur.

COIMBATORE DISTRICT—cont.

II. Coimbatore taluk—cont.

- 117 Thudiyalur.
- 118 Udayampalayam.
- 119 Uppilpalayam.
- 120 Vadamathurai.
- 121 Velankurichi.
- 122 Vellalore.
- 123 Vellaikinar.
- 124 Vellamadai.
- 125 Veerapandi.
- 126 Veerakeralam.
- 127 Venkitapuram.
- 128 Viyampalayam.
- 129 Pudur.
- 130 Peelamedu.
- 131 Gudalur.
- 132 Sengalipalayam.
- 133 Sinnavadampatti.
- 134 West Chitraichavadi.
- 135 Ambillipudur.
- 136 Edayapalayam.
- 137 Kurumbanur.
- 138 Kumarapalayam.
- 139 Kuppanur.
- 140 Kalikanaickenpalayam.
- 141 Kuppakonampudur.
- 142 Pachapalayam.
- 143 Pallapalayam.
- 144 Sengalur.
- 145 Sidhanaickenpalayam.
- 146 Sengodagoundenpudur.
- 147 Thattampudur.
- 148 Athinaraayanapuram.
- 149 Chinnamettupalayam.
- 150 Pulliakulam.
- 151 Ramanathapuram.
- 152 Arumughaoundenpudur.
- 153 Ramachettipalayam.
- 154 Vadavalli.
- 155 Thirumalayampalayam.
- 156 Sennipalayam.
- 157 Karumathampatti.
- 158 R.N. Puram.
- 159 Pattanam.
- 160 Samichettipalayam.
- 161 Jengamanaickenpalayam.
- 162 Thoppampatti.
- 163 Athumunda Thottam.
- 164 Sukkiravarapalayam.
- 165 Thenkarai.
- 166 Naduppapalayam.
- 167 Periaputhur.
- 168 Rangappagoundenpudur.
- 169 Ayyampalayam.
- 170 Kurumbapalayam.
- 171 Puliangulam.
- 172 Machampalayam.
- 173 Vedapatti.
- 174 Vellanaipatti.
- 175 Kaikolapalayam.
- 176 Veriapalayam.
- 177 Karadayampalayam.
- 178 Mattepalayam.
- 179 Eachaneri.
- 180 Alandurai.
- 181 Devinalickenpalayam.
- 182 Kallipalayam.
- 183 Naickenpalayam.
- 184 Ettimadal.
- 185 Devarayapuram.
- 186 Siripalayam.
- 187 Chavadiipudur.
- 188 Dombillipalayam.
- 189 Edayarpalayam.
- 190 Malamachampatti.
- 191 Paramaswaranpalayam.
- 192 Rakkiapalayam.
- 193 Thennamanallore.
- 194 Vallampalayam.

III. Dharapuram taluk.

- 195 Dhalavalpatnam.
- 196 Periyakumarapalayam.

* Villages marked thus are electrified during 1950-51.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

PYKARA ELECTRICITY SYSTEM—cont.

COIMBATORE DISTRICT—cont.

IV. Erode taluk.

197 Chennimalai.
198 Chengapalli.
199 Irugur.
200 Kunnathur.
201 Perundurai.
202 Reddipalayam.
203 Thalappatti.
204 Uthukuli.
205 Virumandampalayam.
206 Kavathampalayam.
207 Mugasipidiyur.
208 Chinnakaraipalayam.
209 Sengalipalayam.*
210 Sundakampalayam.*
211 Thiruvekkampalayam.*
212 Vellankoil.*

V. Gobichettipalayam taluk.

213 Gobichettipalayam.
214 Kolappalur.
215 Siruvalur.
216 Panickampalayam.
217 Santhapalayam.
218 Modachur.
219 Pariyur.
220 Getticheyyur.
221 Chittandipalayam.*
222 Karattupalayam.*

VI. Palladam taluk.

223 Anuppapalayam.
224 Appanaickenpatti.
225 Arasur.
226 Arugampalayam.
227 Athappagoundenpudur.
228 Audinarayaapuram.
229 Bommaigoundenpatti.
230 Chandrakavi.
231 Chinnavadugapalayam.
232 Chinnayagoundenvalasu.
233 Irugur.
234 Kallapalayam.
235 Kallikanaickenpalayam.
236 Kaniyur.
237 Kannampalayam.
238 Karadibavi.
239 Karavelumadapur.
240 Kosavampalayam.
241 Mariannallur.
242 Mailampatti.
243 Mudalipalayam.
244 Mangalam Vanjipalayam.
245 Neelambur.
246 Nanakkadu.
247 Odderpalayam.
248 Palladam.
249 Pappampatti.
250 Patnam.
251 Peedampalli.
252 Paramasivampalayam.
253 Perumalur.
254 Rasipalayam.
255 Ravathur.
256 Samalapuram.
257 Sengodagoundenpudur.
258 Somanur.
259 Sular.
260 Thottipalayam.
261 Uthupalayam.
262 Ganapathipalayam.
263 Ichipatti.
264 Kalengai.
265 Kombakadu.
266 Naranapuram.
267 Puruvai.
268 Rangasamudram.
269 Samalapuram.
270 Selappampalayam.
271 Vadugampalayam.
272 Velampalayam.
273 Velampalayam.
274 Selakaraichal.
275 Serampalayam.
276 Sukkampalayam.
277 Mallegoundenpalayam.

COIMBATORE DISTRICT—cont.

VI. Palladam taluk—cont.

278 Chittambalam.
279 Alathupalayam.
280 Chittambalampudur.
281 Karunampet.
282 Unjapalayam.
283 Kadambadipudur.
284 Pullapalayam.
285 Pullampatti.
286 Mannarai.
287 Nallore.
288 Anupatty.
289 Pollikalipalayam.
290 Kodampadi.
291 Kodangipalayam.
292 G.N. Palayam.
293 Sennappachettyputur.
294 Agraharapudur.*
295 Ammapalayam.*
296 Karaipudur.*
297 Krishnapudur.*
298 Lakshminackenpalayam.*
299 Malai Koll.*
300 Mannarai.
301 Muthunnickenpalayam.*
302 Muthugoundenpudur.*
303 Ramanaickenpalayam.*

VII. Pollachi taluk.

304 Achipatti.
305 Angalakurichi.
306 Ambrampalayam.
307 Chittoor.
308 Erisinampatti.
309 Gomangalampudur.
310 Iyerpadi.
311 Kaliapuram.
312 Kinathukadavu.
313 Kollipalayam.
314 Kottampatti.
315 Kottur.
316 Jakkarpalayam.
317 Lakshmanapuram.
318 Maickinampatti.
319 Mallamparai.
320 Malayandipatnam.
321 Muthur.
322 Othakkalmandapam.
323 Okkiliipalayam.
324 Perianagaram.
325 Ponnapuram.
326 Samathoor.
327 Samathurai.
328 Sethumadai.
329 Siganallur.
330 Sholavampalayam.
331 Subbiagoundenpudur.
332 Valparai.
333 Vettakaranpudur.
334 Mullapadi.
335 Ramanamudalipudur.
336 Kamatchipuram.
337 Kanjampatty.
338 Pillichinnampalayam.
339 Akilandapuram.
340 Pollachigoundenpudur.
341 Singarampalayam.*
342 Thattharowthenpudur.*
343 Thensangampalayam.*

VIII. Udumalpet taluk.

344 Annaikadavu.
345 Adivelli.
346 Alampalayam.
347 Andiyur.
348 Bodinatham.
349 Bodipatti.
350 Chinnakumarapalayam.
351 Chinnavalavadi.
352 Dhalai.
353 Gudimangalam.
354 Guruvappanackenur.
355 Illuppananagaram.
356 Jellipatti.
357 Kulipalayam.
358 Kaniyur.

* Villages marked thus are electrified during 1950-51*

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

PYKARA ELECTRICITY SYSTEM—cont.

COIMBATORE DISTRICT—cont.

VIII. Udumalpet taluk—cont.

359 Karatholuvu.
360 Kadathur.
361 Kolumum.
362 Komaralingam.
363 Manupatti.
364 Murungapatti.
365 Nallampalli.
366 Peddampalli.
367 Periyapatti.
368 Periyavelavadi.
369 Pukkulam.
370 Pottalampalayam.
371 Ragelbavi.
372 Senjuvadi.
373 Sundakkampalayam.
374 Udukkampalayam.
375 Vanasapatti.
376 Virugampattipudur.
377 Kallapalayam.
378 Rangampalayam.
379 Ramachandrapuram.
380 Muthunackenpatti.
381 Nanjagoundenpudur.
382 Ammapatti.*
383 Marupatty.*
384 Sadayagoundenpudur.*

IX. Kollegal taluk.

385 Kollegal.
386 Mudikondan.

MADURAI DISTRICT.

I. Dindigul taluk.

387 Chinnapatti.
388 Pittalappatti.
389 Sembatti.
390 Vakkampatti.
391 Sevalasarakku.*

II. Kodaikanal taluk.

392 Kodaikanal.

III. Nilakkottai taluk.

393 Ammanalckkanoor.
394 Athur.
395 Batlagundu.
396 Nilakkottai.
397 Pattiveerampatti.
398 Ammapatti.
399 Chellampatty.*

IV. Palni taluk.

400 Akkamaickenpudur.
401 Amarapundi.
402 Ayakudi.
403 Chittarevu.
404 Eramanaickenpatti.
405 Neikarapatti.
406 Papampatti.
407 Vathagoundenvalasu.
408 Kothamangalam.
409 Sivagiripatty.*
410 Thamarakulam.*
411 Thatthanaickenpatti.*

V. Periyakulam taluk.

412 Alagapuri.
413 Allinagaram.
414 Chinnamanur.
415 Cumbum.
416 Nagalapuram.
417 Ranganathapuram.

SALEM DISTRICT.

I. Omalur taluk.

1 Mettur Dam.
2 Omalur.
3 Pachampatti.
4 Taramangalam.
5 Jalakantapuram.
6 Nangavalli.
7 Virakkal.

MADURAI DISTRICT—cont.

V. Periyakulam taluk—cont.

418 Srirangapuram.
419 Theni.
420 Uttampalayam.
421 Veerapandi.
422 Venkitachalapuram.
423 Veppampatti.
424 Koduvilarpalli.
425 Thadicherry.
426 Dombucherry.*
427 Korampatti.*
428 Lakshimpuram.*
429 Pithalappatty.*
430 Thottahattanpatty.*
431 Upparapatty.*
432 Uppukottai.*
433 Vadaveeranaickenpatty.*

NILGIRIS DISTRICT.

I. Coonoor taluk.

434 Aravankadu.
435 Aravenu.
436 Ariahutti.
437 Bangalmattam.
438 Hoobathalai.
439 Hulical.
440 Jagathala.
441 Kattabettu.
442 Killkunda.
443 Killkotagiri.
444 Kotagiri.
445 Konakarai.
446 Kondillikka.
447 Manthakandy.
448 Marikal.
449 Thenery.
450 Nanjacombal.
451 Melur.
452 Edapally.
453 Ellithoral.
454 Bearhutti.*
455 Korakkara.*
456 Thatthanad.*

II. Gudalur taluk.

457 Devarshola.
458 Gudalur.

III. Ootacamund taluk.

459 Glenmorgan.
460 Thangadu.
461 Kannery.
462 Manthanai.
463 Balacola.
464 Meekari.
465 Maynthala.
466 Melkunda.
467 Bokkarai.*
468 Deynad.*
469 Hallakkorai.*
470 Kakkalada.*
471 Kothabin.*
472 Manjoor.*
473 Manihatty.*
474 Mudugala.*
475 Mullimalai.*
476 Mynalla.*
477 Oranhally.*

MALABAR DISTRICT.

Palghat taluk.

478 Ellapulli.
479 Kanjikode.
480 Paral.

METTUR ELECTRICITY SYSTEM.

SALEM DISTRICT—cont.

I. Omalur taluk—cont.

8 Kolathur.
9 Nattamangalam.
10 Vanavasi.
11 Kurjandiyur.
12 Tharkand.*
13 Iyempudur.*

* Villages marked thus are electrified during 1950-51.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

METTUR ELECTRICITY SYSTEM—cont.

SALEM DISTRICT—cont.

II. Krishnagiri taluk.

- 14 Krishnagiri.
15 Kaveripatnam.
16 Boyanapalli.*
17 Palayam.*
18 Madapalli.*
19 Bargur.*

III. Dharmapuri taluk.

- 20 Dharmapuri.
21 Karimangalam.
22 Arasampatti.

IV. Salem taluk.

- 23 Yercaud.
24 Ellampalli.
25 Ayodhyapatnam.
26 Kondalampatti.
27 Kurumpatti.
28 Sellampalayam.
29 Neikarapatty.
30 Mettupatty.
31 Seshanchavadi.
32 Chinnagoundapuram.
33 Vembadithalam.*
34 Jari Kondalampatti.*
35 Peria Seeragappadi.*
36 Chinna Seeragappadi.*

V. Attur taluk.

- 37 Attur.
38 Dalavolpatti.
39 Valappadi.
40 Peddanaickenpalayam.
41 Yethapur.
42 Narasingapuram.
43 Chinnamasamudram.
44 Sundarapuram.
45 Abhivaram.*
46 Umayapuram.*
47 Mullavadi.*

VI. Tiruchengode taluk.

- 48 Chettimankurichi.
49 McDonald's Choultry.
50 Komarapalayam.

VII. Rasipuram taluk.

- 51 Rasipuram.
52 Mallur.
53 Singalandapuram.
54 Thengalpalayam.
55 Vora.
56 Koneripatti.
57 Malayampatti.
58 Chandrasekharapuram.
59 Namagripet.
60 Pudupatty.
61 Kakaveri.
62 Mascallipatty.
63 Kavandampalayam.
64 Pattanam.
65 Arasupalayam.
66 Seerapali.*
67 Chinnakkakaveri.*
68 Oduvankurichi.*
69 Ariyagoundenpatty.

VIII. Namakkal taluk.

- 70 Erumalpatti.
71 Kondichettipatti.
72 Kongalathur.
73 Laddivadi pudupatti.
74 Mohanur.
75 Nallipalayam.
76 Namakkal.
77 Pandamangalam.
78 Pillikalpalayam.
79 Velur.
80 Vengaral.
81 Kalichettipatti.
82 Kalkurichi.
83 Vellalapatti.
84 Unjapalayam.*

SALEM DISTRICT—cont.

VIII. Namakkal taluk—cont.

- 85 Kottanampalayam.*
86 Nanjai Edayar.*
87 Tholur.*
88 Anippuram.*
89 Nallagoundenpudur.*
90 Kanavoipatty.*
91 Singalacombal.*

IX. Harur taluk.

- 92 Singarapet.
93 Uthangarai.

COIMBATORE DISTRICT.

I. Erode taluk.

- 94 Chittode.
95 Edayanakattuvalasu.
96 Komaramparappu.
97 Kodumudi.
98 Valravanpalayam.
99 Veerappanchatram.
100 Gundangalpalayam.
101 Nathamedu.
102 Pudur Suriyampalayam.*
103 Periya Semur.*

II. Bhavani taluk.

- 104 Ammapet.
105 Andiyur.
106 Bhavani.
107 Jambai.
108 Kalvavi.
109 Kesarimangalam.
110 Neringipet.
111 Olagadam.
112 Pudupalayam.
113 Singampet.
114 Thalalpalayam.
115 Thippichettipalayam.
116 Thottipalayam.
117 Urachikottai.
118 Appakudal.
119 Mondipalayam.
120 Orichery.
121 Podnuvachi.
122 Perumapalayam.
123 Kondayampalayam.
124 Velli Thiruppur.
125 Attani.*
126 Michaelpalayam.*
127 Manickampalayam.*
128 Perlavadamalalpalayam.*
129 Ramalingapuram.*
130 Andipalayam.
131 Kalingarayanpalayam.*
132 Vadanallur.*
133 Punnam.*

TIRUCHIRAPPALLI DISTRICT.

I. Karur taluk.

- 134 Samudram Extensions.
135 Nadayanur.
136 Punjai Pugalur.
137 Pullur.
138 Semangi.
139 Thottakurichi.
140 Uppidamangalam.
141 Vennamalal.
142 Nanaparappu.
143 Thanthonipatti.
144 Thirumalaathanpatti.*
145 Lakshimpatty.*
146 Noyyal.*

II. Kuttal taluk.

- 147 Ranganathapuram.
148 Manavai.
149 Balrajapuram.
150 Veerarakkiam.*

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

METTUR ELECTRICITY SYSTEM—cont.

CHITTOOR DISTRICT.

I. Chandragiri taluk.

- 151 Kalroadapalli.
152 Pakala.
153 Mungilpe t.
154 Kasipantla.
155 Kothampalli.*
156 Nadiampalli.*

II. Palamaneer taluk.

- 157 Kuppam.

III. Tiruttani taluk.

- 158 Tiruttani.
159 Nagari.
160 Ekambarakuppam.*
161 Keelapattu.*
162 Kumarakuppam.*
163 Ponpadi.*
164 Ramnagar.*
165 Velu Krishnan Naidu Kandigai.*
166 Buchi Naidu Kandigai.*
167 Thirubalacheruvu Kandigai.*
168 Veerakaverirajapuram.*

CHINGLEPUT DISTRICT.

I. Tiruvallur taluk.

- 169 Ikkadu.
170 Kadambattur.
171 Ondikuppam.*

II. Kancheepuram taluk.

- 172 Damal.
173 Vajayoor.
174 Wallajabad.
175 Vengudi.*
176 Baluchettichatram.*
177 Panjupet.*
178 Achukattur.*
179 Pusavakkam.*

NORTH ARCOT DISTRICT.

I. Arkonam taluk.

- 180 Attupakkam.
181 Arkonam.
182 Argilvadi.
183 Asanalkuppam.
184 Nemili.
185 Pullamangalam.
186 Parameswara mangalam.
187 Sayanavaram.
188 Takkolam.
189 Parappakkam.
190 Ocheri.
191 Puderli.*
192 Sakai.*

II. Vellore taluk.

- 193 Shembakkam.

III. Polur taluk.

- 194 Polur.
195 Kunnathur.
196 Rindiripet.*
197 Kurivimalal.*
198 Kappalur.*
199 Kalasapakkam.*
200 Tendapillipatty.*
201 Mothupalayam.*
202 Pillur.*
203 Palakoli.*

IV. Wallajah taluk.

- 204 Allalacheri.
205 Arumbakkam.
206 Kalavai.
207 Kaveripauk.
208 Kadepperi.
209 Lokapuram.

NORTH ARCOT DISTRICT—cont.

IV. Wallajah taluk—cont.

- 210 Ozugur.
211 Sathampakkam.
212 Sumathanki.
213 Talangai.
214 Vangur.
215 Valluvambakkam.
216 Sholinghur.
217 Pennagar.
218 Pagavalli.*

V. Arni taluk.

- 219 Arni.
220 Kalambur.
221 Satyavijayanagar.
222 Kondavetti Thangal.
223 Palanganoor.
224 Melappuduppakkam.*
225 Mambakkam.*
226 Valapandal.*
227 Katteri.
228 Nadukuppam.
229 Melapandal.
230 Mamandoor.

VI. Cheyyar taluk.

- 231 Tiruvettipuram.
232 Korakkal.*
233 Soraiyur.*

VII. Wandiwash taluk.

- 234 Wandiwash.

VIII. Tiruvannamalai taluk.

- 235 Adayur.
236 Devannandal.
237 Nallavampalayam.
238 Vengikal.
239 Attyandal.
240 Anaiyirandan.
241 Vettavalam.

IX. Tirupattur taluk.

- 242 Annandapatti.
243 Christukulashramam.
244 Extension to four wells.
245 Jolarpet.
246 Jolarpet-Vaniyambadi Lines.
247 Pachalmitta.
248 Kastnayagampatti.
249 Agraharam.
250 Elagiri.
251 Kodiyur.*

SOUTH ARCOT DISTRICT.

I. Tirukkoyilur taluk.

- 252 Kalandal.
253 Meyyur.
254 Sirumadurai.
255 Tirukkoyilur.
256 T. Pudupalayam.
257 Veerapandy.
258 Poyyasarur.
259 T. Edayar.
260 Vellambudur.
261 Devanur.
262 Kalamarudhur.
263 Ulundurpet.
264 Semmananghur.
265 Kumaramangalam.

II. Villupuram taluk.

- 266 Kandamamadi.
267 Kaveripakkam.
268 Pidagam.*

III. Vriddhachalam taluk.

- 269 Vriddhachalam.
270 Mangalampet.
271 Karunatham.

* Villages marked thus are electrified during 1950-51.

* Villages marked thus are electrified during 1950-51.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

METTUR ELECTRICITY SYSTEM—cont.

SOUTH ARCOT DISTRICT—cont.

IV. Cuddalore taluk.

- 272 Kadambuliur.*
273 Melarangunam.*
274 Manamandaputtur.*
275 Natham.*

NORTH ARCOT DISTRICT.

Gudiyattam taluk.

- 276 Pernambut.
277 Comerabad.
278 Nariyampet.
279 Anganallur.
280 Natham.
281 Bhimapuram.
282 Talayatham.
283 Cherugangi.
284 Gudiyattam.

NORTH ARCOT DISTRICT—cont.

Gudiyattam taluk—cont.

- 285 Damalacheruvu.
286 Vadakathipatti.
287 Melumuttukkur.
288 Singalpadi.
289 Balur.
290 Kothur.
291 Kondasamundram.
292 Pakkam.
293 Kallur.
294 Chedukarai.
295 Alathur.
296 Melathur.
297 Madanur.
298 Tattalam.
299 Kalleri.
300 Sathgur.
301 Ayithempet.
302 Machempet.

PAPANASAM ELECTRICITY SYSTEM.

MADURAI DISTRICT.

I. Madurai taluk.

- 1 Austinpatti.
2 Avanlapuram.
3 Harveypatti.
4 Palanganatham.
5 Panayoor.
6 Pasumalai.
7 Tirupparankundram.
8 Veeramadayam.
9 Alagapuri.
10 Koothiarkundru.
11 Samayanallur.
12 Sholavandan.
13 Vadapalanji.
14 Avanipuram.
15 Ayyanapuram.
16 Vilacheri.
17 Villapuram.
18 Thenur.
19 Veeratanur.
20 Viraganoor.
21 Madakkulam.*
22 Achambathu.*

II. Melur taluk.

- 23 Melur.
24 Thiruvadavoor.
25 Thekupatti.*
26 Veppadappu.*

III. Tirumangalam taluk.

- 27 Dharmathupatti.
28 Kalligudi.
29 Kappalur.
30 Kinnimangalam.
31 Maravankulam.
32 Melapatti.
33 Muthupatti.
34 Palakkapudupatti.
35 Thenpalanji.
36 Tirumangalam.
37 Vadagarai.
38 Sengulam.
39 Uchapatti.
40 Padupatti.
41 Vadappampatti.
42 Venkatasamudram.
43 Sengapadal.
44 Kinnimangalam.*
45 Rayapalayam.*
46 Kattampatti.*
47 Sundararajapuram.*
48 Achampatti.*
49 Alampatti.*

RAMANATHAPURAM DISTRICT.

I. Sattur taluk.

- 50 Chinnamooppampatti.
51 Kattalapatti.
52 Kokkilanjeri.
53 Kooragundu.
54 Pavali.
55 Puliamkulam.
56 Sattur.
57 Sivakasi.
58 Sulakkarai.
59 Thiruthangal.
60 Valliyur.
61 Kumaralingapuram.
62 Sengamalanachiarapuram.
63 Avadiapuram.
64 Veerapatti.
65 Paraiatti.*
66 Meenampatti.*
67 Vadamalapuram.*
68 Othayal.*
69 Mettupatti.*
70 Kattalamatti.*
71 Chandrasurapuram.*
72 Collegenagar.*

II. Aruppukottai taluk.

- 73 Aruppukottai.
74 Gopalapuram.
75 Palayampatti.
76 Thiruchuli.
77 Kallurichandai.*
78 Thottankulam.*

III. Tiruvadanai taluk.

- 79 Tirumanjola.

IV. Thirupattur taluk.

- 80 Mahibalamatti.
81 Erandiyoer.
82 Kandavarayanpatti.
83 A. Thekkur.
84 Poolankuruchi.
85 Sevvoor.
86 Nelkuppai.
87 Thirupattur.
88 Kandaramanickam.
89 Pattamangalam.
90 Chockanathapuram.
91 Adappanandal.*
92 Senthinayal.*

V. Sivaganga taluk.

- 93 Okkur.
94 Keelapoongudi.
95 Paganeri.
96 Alwakottai.
97 Kilamangalam.
98 Madagupatti.
99 Solapuram.

* Villages marked thus are electrified during 1950-51.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

PAPANASAM ELECTRICITY SYSTEM—cont.

RAMANATHAPURAM DISTRICT—cont.

VI. Srivilliputtur taluk.

- 100 Ramachandrapuram.*
101 Ramalingapuram.*
102 Nachiarpatti.*
103 Pappanaickenpatti.*
104 Appanaickenpatti.*
105 Mangaseri.*
106 Pudur.*

TIRUNELVELI DISTRICT.

I. Koilpatti taluk.

- 107 Ettayapuram.
108 Kovilpatti.
109 Pudukudi.*
110 Kalampatti.*
111 Nalattiniputhur.*
112 Kadambur.*
113 Thirumalapuram.*
114 Chinnamanaiyachi.*
115 Villiseri.*
116 Mudukkuneendampatti.*
117 Idaseval.*
118 Chattrapatti.*

II. Tenkasi taluk.

- 119 Courtallam.
120 Erappani.
121 Ilanjil.
122 Kadayam.
123 Kilakadayam.
124 Kilapuliur.
125 Madavaram.
126 Mathalamparai.
127 Mudaliarpatti.
128 Perambathur.
129 Pottalpur.
130 Tenkasi.
131 Vallam.
132 Ambasamudram.
133 Ariyanayagipuram.
134 Kallidaikurichi.
135 Karai kurichi.
136 Mukkudal.

TIRUNELVELI DISTRICT—cont.

II. Tenkasi taluk—cont.

- 137 Mundanthorai.
138 Papanasam.
139 Pattamada.
140 Pirancheri.
141 Shermadevi.
142 Vanankulam.
143 Viravanallur.
144 Vellodal.
145 Vikramasingapuram.
146 Alwarkurichi.
147 Ambur.
148 Athalanallur.
149 Brahmesam.
150 Melagram.
151 Idalkal.*
152 Pothukudi.*

III. Ambasamudram taluk.

- 153 Ghrimalapuram.
154 Harikesavanallur.
155 Kuniyur.
156 Manapparanallur.
157 Mannarkoll.
158 Melacheval.
159 Mudappapuram.
160 Rathapuram.
161 Seenapuram.
162 Serankolpathu.
163 Thirupudaimaruthur.
164 Vagaskulam.
165 Vellanguli.
166 Kodarungulam.
167 Urkad.
168 Singampatti.
169 Gopasamudram.
170 Adachant.*
171 Papankulam.

IV. Tiruvannamalai taluk.

- 172 Gangaikondan.
173 Thalayuthu.

MADRAS ELECTRICITY SYSTEM.

Name of village.

- 1 Madras City, including Saidapet, Little Mount and Guindy and comprising the former Sembiam Panchayat.
2 St. Thomas' Mount.
3 Pallavaram.
4 Meenambakkam.
5 Chromepet.
6 Tambaram.
7 Virugambakkam.
8 Thirumangalam.
9 Annapattur.
10 Rajakilpaukam.
11 Manapakkam.
12 Pammal.
13 Santhoshapuram.
14 Sunnarikuppam.
15 Poonaallee.
16 Valasaravakkam.
17 Hasnapuram (Nehrunagar).
18 Nanganallur.*
19 Tullukanchery.
20 Venkatapuram.

Name of village.

- 21 Kunnathur.
22 Chingleput Manamcheri.
23 Tirunageswaram.
24 Agaram Mel.*
25 Arumbakkam.*
26 Chembarambakkam.*
27 Goolenchavadi.*
28 Karambakkam.*
29 Kadapari village.*
30 Kodambakkam.*
31 Madavilagam.*
32 Meppur.*
33 Malayambakkam.*
34 Madambakkam.*
35 Mangadu.*
36 Moonrakkattalai.*
37 Nazarethpet.*
38 Porur.*
39 Periakudal.*
40 Selaiyur.
41 Thiruvannamiyur.
42 Varadarajapuram.
43 Villivakkam.
44 Alandur.

ANDHRA POWER SYSTEM.

I. VISAKHAPATNAM AREA.

VISAKHAPATNAM DISTRICT.

(a) Anakapalle taluk.

- 1 Duvvada.
2 Aganampudi.
3 Tummapala.

I. VISAKHAPATNAM AREA—cont.

VISAKHAPATNAM DISTRICT—cont.

(b) Bheemunipatnam taluk.

- 4 Nagarappalem.
5 Rayapalem.
6 Bheemunipatnam.
7 Chittivalasa.
8 Tagarapuvallasa.
9 Thoditturu.*
10 Kumaripalem.*

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

ANDHRA POWER SYSTEM—cont.

1. VISAKHAPATNAM AREA—cont.

VISAKHAPATNAM DISTRICT—cont.

(c) Bobbili taluk.

- 11 Bobbili.
12 Salur.
13 Paradi.
14 Ramachandrapuram.

(d) Chipurupalli taluk.

- 15 Garividi.
16 Chipurupalli.
17 Bripuram.
18 Garbham *

(e) Visakhapatnam taluk.

- 19 Hanumanthakam.
20 Pedavalteru.
21 Simhachalam.
22 Malakapuram *
23 Nakkavanapalem *
24 Pedagadi *
25 Penudurthi *
26 Narava *

(f) Vizianagaram taluk.

- 27 Nellimarla.
28 Penubarti.
29 Vantitadi.
30 Moida (Vizianagaram).
31 Vizianagaram.
32 Atchutapuram.
33 Burjavalasa.
34 Gudivindala Agraharam.

(g) Salur taluk.

- 35 Salur *
36 Paradi *

2. VIJAYAVADA AREA.

WEST GODAVARI DISTRICT.

Eluru taluk.

- 37 Kalaparru.
38 Bapulapadu.
39 Bommalur.

KRISHNA DISTRICT.

(a) Nuzvid taluk.

- 40 Gollapalli.
41 Mirzapuram.
42 Marasapudi.
43 Nuzvid.
44 Ramannagudem.
45 Takkur.
46 Vattigudipadu.
47 Polasapalli.
48 Pothureddipalli.
49 Pedapulapaka.
50 Billanapalli *
51 Kothapalli *

(b) Gannavaram taluk.

- 52 Ampapuram.
53 Chinavogirala.
54 Yenamalakuduru.
55 Gannavaram.
56 Kanakapalli.
57 Kanumur.
58 Pedavegirala.
59 Penamalur.
60 Sevarigudem.
61 Vanukur.
62 Vuyyur.
63 Kondavayalur.
64 Atukur.
65 Telaprolu.

(c) Bandar taluk.

- 66 Pedana.
67 Chilikalapudi.

2. VIJAYAVADA AREA—cont.

KRISHNA DISTRICT—cont.

(d) Vijayavada taluk.

- 68 Ambapuram.
69 Bayanipuram.
70 Inikepadu.
71 Ganguru.
72 Garikipattu.
73 Gunadala.
74 Gosala.
75 Idupugallu.
76 Machavaram.
77 Mogalrajapuram.
78 Machyalampadu.
79 Pakamata.
80 Penamalur.
81 Poranki.
82 Prasadapadu.
83 Punadipadu.
84 Tadigadapa.
85 Vidyadharapuram.
86 Akunur.
87 Ekanur.
88 Gandigunta.
89 Ramavarapadu.
90 Konumolu.
91 Tadepalli.
92 Nidamanur *

GUNTUR DISTRICT.

(a) Guntur taluk.

- 93 Atmakur.
94 Angalakuduru.
95 Chinakakani.
96 Kaza.
97 Kakani.
98 Kolanukonda.
99 Narakodu.
100 Gundimeda *
101 Nallampudu *

(b) Tenali taluk.

- 102 Sangamjagamudi.

(c) Bapatla taluk.

- 103 Chebrolu.
104 Vadlanur.
105 Vahvam.

3. KAKINADA AREA.

EAST GODAVARI DISTRICT.

(a) Kakinada taluk.

- 106 Samalkot.
107 Kakinada.
108 Endrapalem *

(b) Peddapuram taluk.

- 109 Peddapuram.

(c) Pithapuram taluk.

- 110 Pithapuram.
111 Gollaprolu.

(d) Ramachandrapuram taluk.

- 112 Velangi.
113 Ramachandrapuram.
114 Mandapeta.
115 Pasalapudi.
116 Galgolupadu *
117 Kumarapuram *

(e) Rajahmundry taluk.

- 118 Kateru *

4. KURNOOL AREA.

KURNOOL DISTRICT.

Kurnool taluk.

- 119 Kurnool Town.

* Villages marked thus are electrified during 1950-51.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1950-51—cont.

ANDHRA POWER SYSTEM—cont.

5. CEDED DISTRICTS.

- 120 Kudligi.
121 Hagari Bommanahalli.
122 Tungabhadra Dam.
123 Ramapalapalle.
124 Chhillivadagi *
125 Hospet.
126 Bellary.
127 Guntakal *
128 Alur *
129 Halaharvi *

6. CUDDAPAH DISTRICT.

- 130 Cuddapah Town.
131 Ramapalle Village.

7. BELLARY DISTRICT.

- 132 Sandur.
133 Chikkasandur *
134 Hindupur.

8. ANANTAPUR DISTRICT.

- 135 Anantapur.

9. NELLORE DISTRICT.

- 136 Proddatur.

APPENDIX H-2.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
1	Adoni	Bellary .. .. .	....	1	Adoni town and the areas comprised within the circle whose radius is 5 miles.
2	Anakapalle	Visakhapatnam ..	Anakapalle	2	Anakapalle town.
3	Vijayavada	Krishna .. .. .	....	3	Vijayavada.
4	British Cochin ..	....	....	4	British Cochin.
5	Bodinayakanur ..	Madurai	Periyakulam	5	Bodinayakanur.
6	Bobbili	Visakhapatnam ..	Bobbili	6	Bobbili.
7	Coimbatore	Coimbatore .. ..	....	7	Coimbatore.
8	Kakinada	East Godavari ..	....	8	Kakinada.
9	Kancheepuram ..	Chingleput .. ..	....	9	Kancheepuram.
10	Coonoor	Nilgiris .. .. .	....	10	Coonoor.
11	Kozhikode	Malabar	Kozhikode Ernad	11	Kozhikode town.
				12	Peroke town.
				13	Nallakam.
				14	Cheruvannur.
				15	Paroppady *.
				16	Marikannu *.
				17	Kattamanchi.
				18	Chittoor town.
				19	Santhapet.
				20	Greamspet (all within Municipality).
				21	Iruvaram village (outside).
				22	Doddipalle.
				23	Kongareddipalle.
				24	Nurukambut.
				25	Kothur.
				26	Poonapalle.
				27	Kalavagunta.
				28	Kajur.
				29	Mangasamudram *.
				30	Thimmanasamudram *.
				31	Iruvaram *.
				32	Chingleput.
				33	Thirumani village.
				34	Thimavaram.
				35	Attur.
				36	Melamayur.
				37	Edayankadu.
				38	Vadapathi.
				39	Villiyambakkam.
				40	Vembakkam.
				41	Atturkuppam.
13	Chingleput	Chingleput	Chingleput		

(* Electrified during 1950-51.)

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
14	Cannanore-Tellicherry.	Malabar	Chirakkal Kottayam	42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	Cannanore. Chovva. Cantonment. Vallikunnu. Pallikulam. Bajiapattam. Pappinicherry. Tellicherry. Kakkat village. Dharmadam. Etakkat village. Muzhappilangad. Chirakkal. Erantholy. Chonadum. Thalayil. Pallikannu.*
15	Chicacole	Vlsakhapatnam .. ..	.. ..	59 60 61	Chicacole. Guzaratipeta. Narasannapeta.
16	Carnatic	North Arcot	Tiruppattur Vellore	62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86	Vaniyambadi. Pudur. Devasthanam. Old Vaniyambadi. Chettiyappanur. Ambur. Alankuppam. Solur. Senekuppam. Tharavalli. Devalapuram. Thuthipet. Upparapalli. Kandrapalli. Labbaikuppam. Chinnavekkata-samudram. Periavenkata-samudram. Govindapuram. Marapet. Chengalikuppam. A'angikulam. Venkatasamudram.* Marapattu.* Adagari.* Dindigul.
17	Dindigul	Madurai	Dindigul	87 88	Devakottah. Shanmughanathapuram.
18	Devakottah	Ramnad .. ..	.. ..	89 90	Thanichanoorani. Dharapuram town (Municipal area) comprising of the following villages:— Dharapuram. Kollingivadi. Nanjampalayam. Chitrathanpalayam. Upputhurai palayam.
19	Dharapuram	Colombatore	Dharapuram	91	Ichapur.*
20	East Coast	Srikakulam .. ..	.. ..	92	Arantangi.
21	East Tanjore	Tanjore	Arantangi Mannargudi	93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113	Mannargudi town, 2 wards. Kuthanallur town. Puvanur. Ullikottai. Melavassal. Nidamangalam. Perambur. Athikadai. Kamalapuram. Kottayur. Avikottai. Pamini. Serankulam. Karnavar. Alacheri. Budamangalam. Lakshmanagudi. Koradacheri. Velukudi. Mulangudi. Vadapathimangalam town.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
21	East Tanjore—cont.	Tanjore—cont	.. Mayuram ..	114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153	Mayuram town, 9 wards. Kuttalam town. Tranquebar town. Tirumanjeri. Kilayur. Anjaravathalai. Tholathalangudi. Nallathankudi. Arivalur. Akkur. Ananthandavapuram. Chittarakadu. Eravanjeri. Kadalangudi. Komal. Konerirajapuram. Manganallur. Nidur. Perumalkoil (Theerazhundur). Melayur. Sembanarkoil. Mudalur. Mappadugai. Theruvizhandur. Vandirajapuram. Aryapuram. Kothangudi. Ambanathapuram. Solachakkaranallur. Tirukkadayur. Vadagarai (Arangadu). Porayar. Erukkattancheri. Elanthangudi. Kumaramangalam. Kollumangudi. Kallappanallur. Kalahastinapuram. Mozhiyur. Pallavarayapet.
			Nannil m	154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197	Achutamangalam. Ammayappan. Analkuppan. Enangudi. Adaliyur. Kamalapuram. Karlancheri. Kodavassal. Kulikkurai. Perunthuralkudi. Marudavancheri. Mudikovandan. Mulanagudi. Nannilam. Peralam. Nallamangudi. Puttagaram. Sennanallur. Mappillaiikulam. Thirukandeswaram. Sengalipuram. Manavalanpettai. Srivanchiyam. Tittacheri. Tirukkannapuram. Tirupugalore. Virkkudi (Vettar). Vishnupuram. Vadamattam. Pavithramanickam. Arasavanangudi. Semmangudi. Tirukkalambur (Sellur). Tiruvizhimalai. Kothangudi. Koothanur. Poonthottam. Kollithirmangalam. Utharagudi. Marungur. Thediyur. Thirumarugal. Pradramman. Vadugakudi.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
21	East Tanjore—cont.	Tanjore—cont.	Nannilam—cont.	198	Kadagambadi.
				199	Manavanallur.
				200	Keceranur.
				201	Vandampalai.
				202	Tirukkannamangal.
				203	Podakudi.
				204	Kuvalaikkal.
			Nagapattinam	205	Tiruvarur town (4 wards).
				206	Alangudi.
				207	Vizayapuram.
				208	Kodalkalpalayam.
				209	Alivalam.
				210	Toppalanpuliur.
				211	Pulivalam.
				212	Thirukkuwalai.
				213	Pttukudi.
				214	Gudur.
				215	Olani.
				216	Mavoor.
				217	Kolapadu.
				218	Manakudi.
				219	Alathambadi.
				220	Apparakudi.
				221	Tennavarayanallur.
				222	Valivalam.
				223	Kunniyur.
				224	Pinnavasal.
			Tattukottai	225	Tattukottai town.
				226	Adiramapatnam.
				227	Anaikadu.
				228	Madakkur.
				229	Nattuchalai.
				230	Movilur.
				231	Thuvanakurichi.
			Shiyali	232	Shiyali town.
				233	Vathiswarankoil.
				234	Thadalankoil.
				235	Anaikaranchatram.
				236	Iveli.
				237	Kadhiramangalam.
				238	Vilandarasamudram.
				239	Vellam.
				240	Ellupatti.
			Tiruturaipundi	241	Tiruturaipundi town (14 wards).
				242	Muthupet town (14 wards).
				243	Udayamarthandapuram.
				244	Alangadu.
				245	Idaiyur.
				246	Manalai.
				247	Managudi.
				248	Pandi.
				249	Sengandi.
				250	Thalanayar.
				251	Palayangudi.
				252	Tillaiyilagam.
				253	Kodiyalathur.
				254	Nedumbalam.
				255	Siddamalli.
				256	Vedaranyam.*
				257	Topputhurai.*
				258	Karuppanpulum.*
				259	Vymodu.*
				260	Tirukkaraivasal.*
				261	Kat'umodu.*
			One village	262	Jambavanodai.
				263	Vadagadu.
				264	Velur.
			Nannilam	265	Serukalathur.*
				266	Annalvadapatti.*
				267	Keelavalayur.*
				268	Kappanmangalam.*
				269	Mulangudi.*
			Mannargudi	270	Paravakkottai.*
			Mayuram	271	Kadalangudi.*
22	East Ramanathapuram.	Ramanathapuram	Mudukulattur	272	Abiramam town.
				273	Kamudhi.
				274	Nallakurichi.*
			Paramakudi	275	Emaneswaram.
				276	Dayankudi town.
				277	Paramakudi.
				278	Ayyakkudi.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
22	East Ramanathapuram	Ramanathapuram—cont.	Paramakudi—cont.	281	Nainarkoil.
	—cont.			282	Sathikayakudi.
				283	Thellichathanallur.*
				284	Katchathanallur.*
				285	Muthuvallasai (Merapur).*
				286	Keelakottai.*
				287	Nemmari.*
				288	Muttakurichi.*
			Ramanathapuram	289	Kilakaral town.
				290	Ramnad town.
				291	Sakkarakottai.
				292	Tiruppullani.
			Sivaganga	293	Manamadura.
				294	Dayapuram.*
			Tiruppattur	295	Kallai.
				296	Sembalur.
				297	Singampunari.
				298	Kalappur.*
23	Eluru	West Ramanathapuram	Eluru	299	Eluru.
24	Guntur	Guntur	Guntur	300	Guntur town.
			Tenali	301	Mangalagiri.
				302	Tenali town.
				303	Angalakuduru.
				304	Sangamjagarlamudi
				305	Vadlamudi.
				306	Edlapalli.
				307	Valiveru.
			Bapatla	308	Chebrole.
				309	Chavaripalam.*
25	Gudivada	Krishna	....	310	Gudivada.
26	Kanadukathan	Ramachandrapuram	Tirupattur	311	Kanadukathan.
				312	Pallathur.
				313	Kothamangalam.
				314	Lakshmipuram.
				315	Manachi.
				316	Kottaiyur.
				317	Velaiyur.
				318	Alangudi.
				319	Alagapuri.
				320	Kondanur.
				321	Puduvayal.
				322	Poovalandiatti.
				323	Chokkanendal.
				324	Athangudi (Muthupattinam).
				325	Palavangudi.
				326	Siruvayal.
				327	Kunnakkudi.
				328	Nemam.
				329	Sirukoodalatti.
				330	Viramathi.
				331	Kilasevalatti.
				332	Elayathangudi.
				333	Avinipatti.
				334	Keeranipatti.
				335	Pillayaripatti village and temple.
				336	Kothari.
				337	Ayanarkoil.
27	Kumbakonam	Tanjore	Kumbakonam	338	Valavanapatti.
				339	Kumbakonam.
				340	Darasuram.
				341	Sakkottai.
				342	Sundaraperumalkoil.
				343	Papanasam.
				344	Rajagiri.
				345	Pandaravadai.
				346	Iyyampettai.
				347	Tiruvadi.
				348	Royampet.
				349	Ganapathi Agraharam.
				350	Veeramengudi.
				351	Someswarapuram.
				352	Devangudi.
				353	Milathur.
				354	Tirukarangavanur.
				355	Marlamankoil.
				356	Poondi.
				357	Tirupuvanam.
				358	Ammapet.
				359	Valanginam.
				360	Tippirajapuram.
					Nacharkoil.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships
27	Kumbakonam—cont.	Tanjore—cont.	Kumbakonam—cont.	361	Tiruvadamardur.
				362	Tepperumanallur.
				363	Vepattur.
				364	Aduthurai.
				365	Marudanallur.
				366	Irumbuthalai.
				367	Sadamangalam.
				368	Kalanjeri.
				369	Ukkadai.
				370	Swamimalai.
				371	Tirunageswaram.
				372	Narasingapet.
				373	Thiruvaduthurai.
				374	Mattanyanthidal.
				375	Vallathoor.
				376	Madakudi.
				377	Tiruvasaloor.
				378	Ammachattram.
				379	Kalyanapuram.
				380	Kandiyur.
				381	Tiruppayanam.
				382	Tillaisthanam.
				383	Echangudi.
				384	Tirucheral.*
				385	Ingikollai.*
28	Karaikudi	Ramanathapuram ..	Tirupattur ..	386	Karaikudi.
				387	Kovilur village.
				388	Manazhi village.
				389	Nachlapuram village.
				390	Ariyakkudi village.
				391	Amaravathipudur village.
				392	Zamindar Colony village (Devakkottai Road).
29	Karur	Tiruchirappalli ..	Karur ..	393	Karur.
30	Kodaikanal	Mathurai .. ..	.....	394	Kodaikanal.
				395	Shembaganur.
				396	Munjikka Junction.
31	Kollegal	Coimbatore .. ..	.....	.....	.....
32	Kodaikanal	Madurai	Madurai ..	397	Madurai town.
				398	Sambandar Alangulam.
				399	Pichai Pilai Savadi.
				400	Arrapalayam.
				401	Pudur.
				402	Sathamangalam.
				403	Mangalore town.
33	Mangalore	South Kanara ..	.....	404	Masulipatnam.
34	Masulipatnam ..	Krishna	Bandar ..	405	Nellore.
35	Nellore	Nellore .. ..	.....	406	Kovur (workshop at Bitragunta M. & S. M. Ry.)
36	Nagapattinam ..	Tanjore	Nagapattinam ..	407	Nagapattinam town.
				408	Velipalayam.
				409	Nagore.
				410	Andanapet.
				411	Puttur.
				412	Sikkil.
				413	Poravacheri.
				414	Kivalur.
				415	Papakoll.
				416	Velanganni.
				417	Karuvelangadai.
				418	Adipallam extension.
				419	Kurichi.
				420	Puliyur.
				421	Allyur.
				422	Manjakollai.
				423	Adiakamangalam.
				424	Kumarangudi.
				425	Odacheri.
				426	Sengamangalam.
37	Nattarasankottai ..	Ramanathapuram ..	Sivaganga ..	427	Nattarasankottai.
				428	Sivaganga.
38	Narasaraopet	Guntur .. ..	.....	429	Narasaraopet.
39	Ootacamund	Nilgiris	Ootacamund ..	430	Ootacamund.
				431	Ketti village.
				432	Kerada.
				433	Achankal.
			Coonoor ..	434	Santhur.
				435	Selas.
				436	Palada.
				437	Halada.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
39	Ootacamund—cont. ..	Nilgiris—cont. ..	Coonoor—cont. ..	438	Tideethatti.
				439	Manapattu.
				440	Thodenni.
				441	Soragundur.
				442	Ullada.
40	Ongole	Guntur .. ..	.....	443	Ongole.
41	Pollachi	Coimbatore .. ..	.....	444	Pollachi, Vaduga village, within municipal limits.
42	Palni	Madurai .. ..	.....	445	Palni.
43	Periyakulam	Do.	Periyakulam ..	446	Periyakulam.
44	Palghat	Malabar	Palghat ..	447	Palghat.
45	Rajahmundry	East Godavari ..	.....	448	Rajahmundry town.
				449	Dowleswaram village.
46	Rameswaram	Ramanathapuram ..	.....	450	Rameswaram Pa chayat Board an temple.
47	Salem-Erode	Salem .. ..	.....	451	Salem.
				452	Erode.
				453	Tiruchengode.
				454	Idappadi.
				455	Sankaridrug.
				456	Pallipalayam.
				457	Suramangalam.
				458	Kannamakurichi.
				459	Seelainaickenpatti.
				460	Mayyanoor.
				461	Kuppanur.
				462	Alagapenam.*
				463	Chinna Thirupathi.
				464	Periakottapatti.
48	South Arcot	South Arcot	Villupuram ..	465	Villupuram.
				466	Valayanoor.
				467	Vanayapuram.
				468	Radhapuram.
				469	Madurapakkam.
				470	Panambattu.
				471	Kollanur.
				472	Narimedu.
				473	Siruvanthadu.
				474	Vaniyanpalayam.
				475	Mambakkam.
				476	Mokshakulam.
				477	Panapet.
				478	Vikravandi.
				479	Malurajakuppam.
				480	Kannikoll.
				481	Pudari.
				482	Nariodai.
				483	Siruvallikuppam.
				484	Maharajapuram.
				485	Jaggampet.
				486	Annamalainagar.
				487	Nadar Mills.
				488	St. Xavier Mills.
				489	Venkatadri agaram.
			Tindivanam	490	Tindivanam.
				491	Kaveripakkam.
				492	Mylam.
				493	Batripuliyur.
				494	Singanur.
				495	Chincee Road.
				496	Amachar Koll.
				497	Agraharam.
				498	Kiledayalam.
				499	Jagampet.
			Cuddalore	500	Cuddalore N.T.
				501	Cuddalore O.T.
				502	Panruti.
				503	Nellikuppam.
				504	Kondarcddipalayam.
				505	Pozungam.
				506	Pudupet.
				507	Gavarapet.
				508	Kuchipalayam.
				509	Kozhipakkam.
				510	Panganadai.
				511	Meikumarangalam.
				512	Soruvavoor.
				513	Tirukandeswaram.
				514	Nathapet.
				515	Kondur.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
48	South Arcot—cont.	South Arcot—cont.	Cuddalore—cont.	516	Malmarpet.
				517	Karamankuppam.
				518	Melpattambakkam.
				519	Kongampet.
				520	Kandrakottai.
				521	Varkolpet.
				522	Rambakkam.
				523	Kanlsapakam.
				524	Malayameru.
				525	Bandarakottai.
				526	Valapet.
				527	Aundikuppam.
				528	Kongarayanoor.
				529	Narayanapuram.
				530	Viswanathapuram.
				531	Sholavalli.
				532	Vellapakam.
				533	Pandaralkuppam.
				534	Iyyanarkoil.
				535	Kongampet.
				536	Nathapet II.
		Chidambaram		537	Chidambaram.
				538	Vallampadugai.
				539	Bhuvanagiri.
				540	Keerapalayam.
				541	Thallampalayam.
				542	Thondireddipalayam.
				543	Pudupalayam.
49	Salur	Parvathipur	Visakhapatnam	544	Salur town.
				545	Parvathipur town.
50	Sivakasi	Ramanathapuram	Sattur	546	Sivakasi.
51	Srivilliputtur	Ramanathapuram	....	547	Rajapalayam.
				548	Srivilliputtur.
				549	Karisaikulam.
				550	Sammandapuram.
				551	Singammalpuram.
				552	Athikulam-Sengulam.
				553	Venkateswarapuram.
				554	Padikasuvithan.
52	Tirunelveli-Tuticorin.	Tirunelveli	Tirunelveli	555	Tirunelveli
				556	Palamcottah and Pettai.
				557	Melapalayam.
				558	Tachanallur.
				559	Chattram Pudukulam.
				560	Vallanad village.
			Thachanallur firka	561	Perumalpuram colony*
				562	Karaiyiruppu village.*
				563	Inam Thenirkulam village.
		Sriyalkuntam		564	Tuticorin.
				565	Vallanad.
				566	Mangalagiri.
53	Tiruchirappalli-Srirangam.	Tiruchirappalli	Kullittalai	567	Kullittalai town.
				568	Manapalai.
				569	Krishnarajapuram.
				570	Sithalavai.
				571	Mahadanapuram.
				572	Marudur.
				573	Mayanoor.
				574	Mangavaram.
				575	Rajendram.
				576	Vagailallur.
				577	Manathattai.
				578	Mettupadugai.
				579	Lalapettai (Kallapalli).
				580	Timmachipuram.
				581	Hiranyamangalam.
				582	Nadupatti.
				583	Tiruchendurai.
				584	Pallivoor.
				585	Karupattur.
				586	Pillapalayam.
				587	Kammanalkenpalayam.*
		Lalgudi		588	Lalgudi.
				589	Manachanallur.
				590	Ayyampalayam.
				591	Angarai.
				592	Bikshandarkoil.
				593	Irungalur.
				594	Kallakudi.
				595	Dalmiapuram.
				596	Manakkal.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
53	Tiruchirappalli-Srirangam—cont.	Tiruchirappalli—cont.	Lalgudi—cont.	597	Kanyamanickam.
				598	Pudur Uthamanur.
				599	Pulambadi.
				600	Punampalayam.
				601	Puvalur town.
				602	Sengandi.
				603	Najai Sengandai.
				604	Sirudayur.
				605	Tirunellurai.
				606	Valadi.
				607	Samayapuram.
				608	Nochium.
				609	Pudukudi.
				610	Pachur.
				611	Salakkadu.
				612	Keelapalayam.
				613	Kuthur.
				614	Kattur.
				615	Pinnavasal.
				616	Peruvallanallur.
				617	Vellanur.
				618	Natarajapuram.
				619	Kovindakurichi.
				620	Pachampettai.
				621	Tirumanamedu.
				622	Purathakudi.
				623	Mahalamadi.
				624	Mandurai.
				625	Kallagam.
				626	Narasingapalayam.*
				627	Edayathimangalam.*
				628	Velayudapuram.*
				629	Neikuppai.*
				630	Edumalai.*
				631	Vazhudaiyur.*
		Musiri		632	Musiri town.
				633	Thotam town.
				634	Natham.
				635	Mettupadugai.
				636	Pudupatti.
				637	Pullivalam.
				638	Silaiyallarputhur.
				639	Murukkur.
				640	Kattuputtur.
				641	Mambarai.
				642	Sandapalayam.
				643	Tiruvengi Hills.
				644	Thoraiyur town.
				645	Perumalpalayam.
				646	Peranur.
				647	Singalandapuram.
				648	Karattampatti.*
				649	Mahendramangalam.
		Tiruchirappalli		650	Tiruchirappalli town, 8 wards.
				651	Srirangam town, 3 wards.
				652	Golden Rock (Pon-malaipatti).
				653	Abisbekapuram.
				654	Allur.
				655	Andanallur.
				656	Ammangudi.
				657	Illuppur.
				658	Kambarasampettai.
				659	Kalkandarkottai.
				660	Kottampattur.
				661	Melur.
				662	Mutharasanallur.
				663	Ariyamangalam.
				664	Pandamangalam.
				665	Pettavaithalai.
				666	Sathanur.
				667	Sirugamani.
				668	Perugamani.
				669	Veraganeri.
				670	Tiruverambur.
				671	Uyyakondanthirumalai.
				672	Tiruppalathurai.
				673	Kolathur.
				674	Mookanarmalaipettai.
				675	Sengulam.
				676	Palur.
				677	Kavalikarapalayam.
				678	Anali.
				679	Uthamarkoil.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
53	Tiruchirappalli-Srirangam—cont.	Tiruchirappalli—cont.	Tiruchirappalli—cont.	680	Manjathadal.
				681	Navalpatti.
				682	Arasangudi.
				683	Edamalaipettipudur.
				684	Tiruchendur.
				685	Paluvur.
				686	Vudivadangam.
				687	Somarasampettai.*
				688	Nachikurichi.*
				689	Edamalaipatti Pudur.*
				690	Navalur.*
				691	Kadipatti.*
			Udayarpalayam ..	692	Ariyalur town, 14 wards.
				693	Kilapaluvur.
				694	Keelayur.*
			Tanjore ..	695	Tirukkattupalli.
				696	Ombathuvelli.
				697	Palmaneri.
				698	Thohur.*
			Pudukkottai (State) ..	699	Varalimalai.
				700	Annavasal.
				701	Tiruvappur.
				702	Usilampatti.
				703	Madlanalur.
54	Tirupati ..	Chittoor ..	Chandragiri ..	704	Tirupati town.
				705	Chandragiri.
				706	Renigunta.
				707	Perumallapalle.
				708	Peroor.
				709	Pudipatla.
				710	Managapuram.
				711	Pudipet.
				712	Thondavada.
				713	Thirmalai.
				714	Colapalle.
				715	Muthalareddipalle.
				716	Alipiri.
				717	Tiruchanur.
				718	Kamapalle.
				719	Narasingapuram.
				720	Caligopuram.
				721	Akkarampalle.
				722	Avilala.
				723	Phungavaripalle.
				724	Ravillavaripalle.
				725	Royal Cheruvu.
				726	Sankariahgaripalle.
				727	Thokivackam.
				728	Vedantapuram Agraharam.
55	Tiruvallur ..	Chingleput ..	Tiruvallur ..	729	Ayveliaaram.
				730	Tiruvallur town.
				731	Perumbakkam.
				732	Kakalur.
				733	Periyakuppam.
				734	Puliyankuppam.
				735	Pungathur.
56	Tiruppattur ..	North Arcot ..	Tiruppattur ..	736	Tiruppattur.
57	Tiruvannamalai ..	Do. ..	Tiruvannamalai ..	737	Tiruvannamalai.
58	Tanjore ..	Tanjore ..	Tanjore ..	738	Tanjore and its surroundings.
59	Tiruppur ..	Coimbatore ..	....	739	Tiruppur.
60	Udamalpet ..	Do. ..	Udamalpet ..	740	Udamalpet.
61	Udipi ..	South Kanara ..	....	741	Udipi.
				742	Karkal.
				743	Manipal and some parts.
				744	Ambalpadi.
				745	Kadiyur.
				746	Kadekar.
				747	Badagabattur.
				748	Puttur.
				749	Shivalli.
62	Vellore ..	North Arcot ..	Vellore ..	750	Vellore town.
				751	Toraipadi.
				752	Sattuwacheri.
				753	Mullipalayam.
				754	Kaspa.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1950-51—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
62	Vellore—cont.	North Arcot—cont.	Vellore—cont.	755	Ramanaickenpalayam.
				756	Allavaram.
				757	Vadavellur.
				758	Sitheri.
				759	Raya Vellore.
			Gudiyattam ..	760	Katpadi.
				761	Kangayanellore.
				762	Dharapadavedu.
				763	Viruthampet.
				764	Senguttai.
				765	Kilthampatral.
				766	Vandranthangal.
			Walajah ..	767	Walajah.
				768	Ranipet.
				769	Arcot.
				770	Visharam.
				771	Vannivedu.
				772	Mottur.
				773	Mananthangal.
				774	Pinji.
				775	Karal.
				776	Navalpoor.
				777	Gumattam.
				778	Ammanthangal.
63	Visakhapatnam ..	Visakhapatnam ..	Visakhapatnam ..	779	Visakhapatnam.
				780	Waltair.
64	Virudhunagar ..	Ramanathapuram ..	....	781	Virudhunagar.
65	Wellington ..	Nilgiris ..	....	782	Wellington.
66	The Ponnamaravathi Electric Supply Corporation, Limited.	Tiruchirappalli ..	Tirumayam ..	783	Vendampatty.
				784	Ponnamaravathy.
				785	Velayapatty-Valampur.
				786	Pudupatti.
				787	Vengupatti.
				788	Kuppanapatty.
				789	Kulipirai.
				790	Panayampatty.
				791	Viraichilai.
				792	Lakshimpuram.
				793	Nachandupatty.
				794	Rangiemr-Mithilapatti.
				795	Kurivikkondampatty.
				796	Kottur.
				797	Thotampatti.
				798	M. Kripatti.*
				799	Yenavayal.*
67	Sri Brahma Vidrambal Electric Supply Corporation, Limited.	Do. ..	Do. ..	800	Ramachandrapuram.
				801	Rayavaram.
				802	Konapet.
				803	Arimalam.
				804	P. Alagapuri.
				805	Tirumayam.
				806	K. Pallivasan.
				807	Meyyapuram.
				808	Mridayapuram.
				809	Umayalpuram.
				810	Sengarai.
				811	Kammangudipatti.
68	Pudukkottai ..	Do. ..	Pudukkottai ..	812	Pudukkottai town.
			Kolathur ..	813	Sathlamanthangal.
69	Kanara Ceramics ..	South Kanara ..	Kasaragode ..	814	Kasaragode.*
70	Tiruvottiyur ..	Chingleput ..	Tiruvallur ..	815	Tiruvottiyur.
				816	Kaladipet.
				817	Savangadu.
				818	Sembilum.
				819	Siruvallur.
				820	Paravallur.
				821	Ayanavaram.
				822	Chinnasembaram-bakkam.

NOTE.—*Denote extension effected during the year 1950-51. The above details are as furnished by the concerned licensees.

(1) PYKARA SYSTEM.

I. INSTALLED CAPACITIES OF TRANSFORMERS.

	Numbers.	Voltage ratio.	Capacity in K.V.A.
1 Singara Power-House	3 × 7,810	11/66-110 K.V.	23,430
	2 × 12,500	11/110 K.V.	25,000
	2 × 5,000	11/66 K.V.	10,000
			58,430
			Number.
	2,000 K.V.A.	11/11-22 K.V.	1
	2,000 K.V.A.	11/22 K.V.	1
	1,000 K.V.A.	11/11 K.V.	2

II. LIST OF EXTRA HIGH TENSION SUB-STATIONS (66 K.V. AND 110 K.V.).

IN LIST OF THE MAIN LINE RAILWAY CONNECTIONS (66 K.V. AND 110 K.V.).							K.V.A.
1 Kattabattu	2 × 1,000	110/11 K.V.	.. ..	2,000			
2 Coimbatore	3 × 6,000	110/66 K.V.	.. ..	18,000			
	8 × 5,000	110/66/22-11 K.V.	.. ..	40,000			
3 Tiruppur	3 × 1,750	66/33/22-11 K.V.	.. ..	5,250			
4 Udampalpet	3 × 1,750	Do.	.. ..	5,250			
5 Sembatti	3 × 1,750	Do.	.. ..	5,250			
6 Kozhikode	8 × 2,000	66/33-11 K.V.	.. ..	4,000			
7 Cannanore	2 × 1,000	Do.	.. ..	2,000			
8 Shembagapudur	1 × 500	66/11 K.V.	.. ..	500			
Total ..				82,250			

III. LIST OF HIGH TENSION TRANSFORMER STATIONS.

III. List of High Tension Transformer Stations.								Number.
1 Karamadai	250 K.V.A. ..	22/11 K.V. ..	..	..	..	..	1	
	500 K.V.A. ..	Do. ..	..	..	..	..	1	
2 Palghat	Do. ..	Do. ..	..	..	..	..	2	
3 Pollachi	Do. ..	Do. ..	..	..	..	..	2	

IV. NUMBER OF DISTRIBUTION TRANSFORMERS.

734 Numbers.

41,650 K.V.A.

(2) METTUR SYSTEM.

LIST OF POWER-HOUSE, E.H.T., H.T. AND DISTRIBUTION TRANSFORMER STATIONS.

Name of station.	Numbers.	Voltage ratio. K.V.A.	Capacity in K.V.A.	Aggregate capacity.
I. INSTALLED CAPACITIES OF TRANSFORMERS.				
1 Power-House	3	11/66-110 K.V. ..	12,500	37,500
	3	11/11-22 K.V. ..	2,000	6,000
				43,500

II. E.H.T. POWER TRANSFORMER STATIONS (66 K.V. AND 110 K.V.).

1 Erode	3	66-33/22-11	1,000	3,000
2 Karur	3	66/22-11	750	2,250
3 Tiruchirappalli	3	66/33-11	2,500	7,500
	2	66/22-11	2,000	4,000

II. E.H.T. POWER TRANSFORMER STATIONS (66 K.V. AND 110 K.V.)—cont.

Name of station.	Numbers.	Voltage ratio. K.V.A.	Capacity in K.V.A.	Aggregate capacity.
4 Tanjore	4	66/33-11	750	3,000
5 Tiruvarur	2	66/11	2,500	5,000
6 Nagapattinam	2	Do.	2,500	5,000
7 Singarapet	2	66/33-11	500	1,000
8 Tiruppattur	4	Do.	500	2,000
9 Ambur	2	Do.	500	1,000
10 Vadakathipatti	2	Do.	1,250	2,500
11 Vellore	3	(1) 66/33-22 and (2) 66/33-11.	1,250	3,750
	1	66/33-11	750	750
	1	Do.	500	500
12 Tiruvannamalai	2	Do.	1,000	2,000
	1	Do.	750	750
13 Vettavalam	2	Do.	250	500
	1	Do.	100	100
14 Villupuram	4	66/33-22	1,750	7,000
	1	66/22-11	1,250	1,250
15 Kancheepuram	1	66/33-11	1,250	1,250
	2	66/11	4,000	8,000
		Total ..	62,100	

III. H.T. POWER TRANSFORMER STATIONS (33 K.V. AND 22 K.V.).

1	Papanasam	2	33/11	500	1,000
			66/33/22-11 (connected as 33/11).	500	500
2	Kariamangalam	2	33/11	250	500
3	Chittoor	3	Do.	250	750
4	Pakala	2	Do.	500	1,000
5	Ranipet	2	Do.	500	1,000
6	Kaveripauk	4	Do.	250	1,000
7	Kancheepuram	2	Do.	250	500
		2	Do.	250	500
		1	Do.	250	250
8	Arkonam	3	Do.	500	1,500
9	Kadambathur	2	Do.	500	1,000
10	Polur	2	Do.	250	500
11	Arni	3	66-33/22-11 (connected as 33/11).	500	1,500
12	Kuppam	2	33/11	250	500
			Total ..	12,000	

IV. DISTRIBUTION TRANSFORMERS.

519 Numbers.

33,218 K.V.A.

APPENDIX I—cont.

(5) ANDHRA SYSTEM.

Name of stations.	Numbers.	Voltage ratio.	K.V.A.	Aggregate capacity. K.V.A.
I. INSTALLED CAPACITIES OF TRANSFORMERS.				
<i>Power-house.</i>				
1 Vijayavada	2	33 K.V./11-33 K.V.	1,500	3,000
	2	33 K.V./11-33 K.V.	3,000	6,000
	1	33 K.V./11-33 K.V.	1,500	1,500
2 Visakhapatnam	2	33 K.V./11-33	1,500	3,000
	3	33 K.V./11-33	750	2,250
	1	33 K.V./11 K.V.	1,500	1,500
3 Kakinada	2	33 K.V./11 K.V.	250	500
	2	400 V/11 K.V.	375	750
	1	400 V/11 K.V.	250	250
4 Kurnool	1	400 V/33 K.V.	200	200
5 Rajahmundry	2	400 V/33 K.V.	92	184
	1	400 V/33 K.V.	125	125
6 Nellore	1	66/11 K.V.	1,500	1,500
	1	66/11 K.V.	3,000	3,000
7 Prodattur	1	400 V/3-3 K.V.	50	50

II. E.H.T. POWER TRANSFORMER STATIONS (66 K.V. AND 110 K.V.).

<i>Ceded Districts Scheme.</i>				
1 Kudiligi	1	66/11 K.V.	250	250
2 Tungabhadra dam	2	66/11 K.V.	1,000	2,000
3 Bellary	3	66/33-11 K.V.	1,000	3,000
Total ..			5,250	

III. H.T. POWER TRANSFORMER STATIONS (33 K.V. AND 22 K.V.).

<i>Vijayavada.</i>				
1 Tenali	2	33/11 K.V.	500	1,000
2 K. C. Co.	2	33/11/33 K.V.	750	1,500
3 Sithanagaram	1	33/11 K.V.	250	250
4 Eluru	2	Do.	250	500
5 Nuzvid	2	Do.	500	1,000
6 Gudivada	2	Do.	500	1,000
7 Guntur	3	Do.	500	1,500
8 Masulipatnam	2	Do.	100	200
	2	33/66 K.V.	250	500
Total ..			7,450	

APPENDIX I—cont.

(5) ANDHRA SYSTEM—cont.

Name of stations.	Numbers.	Voltage ratio.	K.V.A.	Aggregate capacity. K.V.A.
III. H.T. POWER TRANSFORMER STATIONS (33 K.V. AND 22 K.V.)—cont.				
<i>Visakhapatnam.</i>				
1 Chittivalasa	2	33/11 K.V.	1,500	3,000
2 Vizianagram	3	Do.	500	1,500
3 Penbarti	2	Do.	250	700
	2	Do.	100	
Total ..			5,200	

Ceded Districts Scheme.

1 Alur	2	33/11 K.V.	100	200
2 Adoni	2	Do.	500	1,000
3 Guntakal	2	Do.	500	1,000
Total ..			2,200	

Hindupur Scheme.

1 Hindupur	1	33/11 K.V.	250	250
Total ..			250	

*Kakinada—Nil.**Kurnool—Nil.*

IV. DISTRIBUTION TRANSFORMERS.

Name of Station.	Number.	Voltage ratio.	Aggregate capacity. K.V.A.
1 Vijayavada	71		4,470
2 Visakhapatnam	43		2,335
3 Kakinada	27		1,260
4 Ceded Districts	19		1,425
5 Anantapur	3		170
6 Cuddapah	4		137
7 Kurnool	4		275
8 Hindupur	4		400
			(200 effective)

APPENDIX J.

Consolidated balance sheet as on 31st March 1950.

	Assets and other debits.					
	Pykara.	Mettur.	Papanasam.	Total H.E. systems.	Madras.	Grand Total.
(1)	(2)	(3)	(4)	(5)	(6)	(9)
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Utility Plant.						
1. Electric Plant at Cost—						
(i) Generation Plant	1,33,70,970	69,67,748	1,09,81,215	3,13,19,933	..	92,36,216
(ii) Transmission	1,16,86,890	1,08,72,458	72,01,772	2,98,61,120	..	9,95,028
(iii) Distribution	1,73,94,715	1,98,70,506	41,96,691	4,14,61,912	..	38,39,514
(iv) Miscellaneous Equipments	1,11,284	9,95,416	5,41,469	16,48,169	2,30,79,113	2,31,24,503
2. Electric Plant Adjustment	22,85,480	21,18,680	17,11,100	61,15,260	3,42,461	7,21,215
3. Common Electric Plant—Tools and Plant	..	5,01,886	..	5,01,886	..	..
4. Common Electric Plant Adjustments	..	1,52,487	9,967	1,32,454	..	..
Total Utility Plant in Service	4,48,49,339	4,15,49,181	2,46,42,214	11,10,40,734	2,34,21,574	1,48,37,363
Investment Fund Accounts.						
5. Other Physical Property	..	..	..	..	..	..
6. Investments—						
(a) Depreciation Reserve Fund	89,24,550	52,95,946	12,78,946	1,54,99,442	21,91,212	2,93,094
(b) Special Reserve Fund	35,65,400	19,14,279	4,89,687	59,69,346	2,86,797	41,100
7. Investment with Accountant-General—						
(a) Pension Contributions	6,87,947	..	..	6,87,947	..	..
(b) G.P.F. Contributions	..	..	..	..	..	..
8. Investments with Government	..	..	..	..	..	..
9. (a) Investments in P.O.Cs., etc., by Subordinates.	22,548	31,479	16,070	70,097	..	2,12,525
(b) Investments in Securities	40,010	23,410	21,000	84,420	12,800	12,800
(c) Investments in P.O.Cs. and N.S.Cs.	3,00,415	3,21,815	2,43,920	8,66,150	4,69,150	3,484
Total Investments and Fund Accounts	1,35,40,870	75,86,929	20,49,603	2,31,77,402	29,59,959	5,49,203
Fidelity Bonds held, G.P. Notes, etc., etc.	25,360	..	10,300	35,660	8,000	10,400
	25,360	..	10,300	35,660	8,000	18,400
						54,060

Liabilities and other credits.

	Liabilities and other credits.					
	Pykara system.	Mettur system.	Papanasam system.	Total H.E. system.	Madras system.	Grand Total.
(1)	(2)	(3)	(4)	(5)	(6)	(9)
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Capital and Borrowings.						
1. Subventions by Government	4,61,30,303	3,23,61,465	3,47,19,414	11,32,11,182	2,61,28,308	5,38,68,319
Securities purchased	1,24,89,949	72,10,225	17,68,613	214,68,787	24,78,009	3,34,194
Total Capital	5,86,20,252	3,95,71,690	3,64,88,027	13,46,79,969	2,86,06,317	8,58,08,830
						21,74,88,799
Long-term Obligations.						
Consumers' Deposits—						
(i) In P.O.C. Cs. and N.S.Cs., etc.	3,00,775	3,21,815	2,43,920	8,66,510	4,67,650	2,15,009
(ii) Securities	65,010	23,410	21,000	1,09,420	6,36,298	10,400
(iii) Cash	..	..	..	..	..	..
(iv) In Government Promissory Notes	22,548	32,234	10,300	10,300	..	..
Deposits (Contractors)	11,271	10,203	16,070	70,852	4,704	9,500
Other Long-term Deposits	87,999	4,79,264	1,11,607	1,33,081	43,352	48,056
Accounts Payable—						
(i) Contractors	1,367	..	1,18,876	6,86,139	20	1,26,134
(ii) Suppliers	11,20,030	28,01,071	15,82,530	1,367	5,91,708	20,800
London Stores	..	..	..	66,43,153	25,88,933	16,56,906
Customers' Deposits for S.Cs.	..	..	..	1,72,077	2,43,746	..
Interest Accrued	3,75,378	..	..	5,30,144	2,60,788	79,194
Advances for Contributions (D.C.W.)	..	..	..	11,913	4,882	9,510
Other Credits and Accrued Credits	5,273	..	6,640	2,834	52,41,327	..
Expense Balance (Cuddapah)	2,834	..	..	..	2,051	..
Salaries and Wages due	2,11,609	1,20,597	88,041	4,20,247	1,61,714	72,825
Total	31,53,595	37,88,591	27,15,848	96,58,037	1,02,95,969	23,66,778
						1,26,62,747
						3,23,20,754

* Represents figures relating to Construction Branch.

APPENDIX J—cont.

Consolidated balance sheet as on 31st March 1950—cont.

Assets and Other Debits.

	Pykara.	Mettur.	Papanasam.	Total, H.E. systems.	Madras.	Andhra Power system.	Total Thermal systems.	Grand Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Cash	19,694	40,201	16,475	76,370	15,166	11,834	27,000	1,03,370
Working Funds	..	..	..	..	..	..	..	..
(i) Petty Cash	..	..	..	..	..	..	..	..
(ii) Temporary Advances	..	..	..	..	..	..	..	..
Cheques, Demand drafts, Notes receivable	..	..	..	..	..	..	..	..
Temporary Cash Advances	..	..	..	..	..	..	..	..
Advances Recoverable, Other Advances	17,08,364	11,81,801	1,186,475	46,65,987	2,46,631	2,587	47,99,718	94,65,705
	*1,08,471		*5,18,675			*45,50,500		
Accounts Receivable.								
Sale of Power	4,13,247	10,69,475	2,31,649	6,44,836	5,31,644	6,73,499	12,05,143	18,50,039
War Costs Surcharge	..	..	..	..	..	..	..	..
Miscellaneous Revenue	7,27,339	..	2,70,668	20,67,482	7,59,302	2,98,163	10,57,465	31,24,947
Accrued Utility Revenue	71,14,727	86,37,617	41,47,242	2,14,85,039	64,75,378	45,44,081	1,24,58,082	3,39,43,121
Materials and Supplies	*13,37,414	..	*2,48,039	..	..	*14,38,623	..	..
Prepayments.								
London Stores	11,713	..	3,41,507	5,85,982	..	13,999	1,06,155	6,92,137
	*2,32,762					* 92,156		
Other Current and Accrued Assets.								
Miscellaneous items of Revenue	13,771	..	..	13,771	28,757	3,54,945	3,83,702	3,97,473
Suspense Balance (Cadlapah)	..	..	..	..	2,051	..	2,051	2,051
Total Current and Accrued Assets	1,16,87,502	1,09,29,094	69,22,931	2,95,39,527	80,75,337	1,19,80,387	2,00,55,724	4,95,95,251
Deferred Debits.								
Retrieval Work in Progress	7,06,636	..	3,36,002	10,42,638	2,00,988	..	2,00,988	2,00,988
Other Works in Progress (Service connections)	2,42,40,453	..	89,58,218	3,31,98,671	3,53,117	1,40,853	4,93,970	15,36,604
Projects under Construction	18,06,032	..	6,47,501	24,53,633	83,06,847	2,55,99,908	3,39,06,755	6,71,05,42
Other Deferred Accounts	..	..	..	..	4,22,490	16,95,930	23,21,114	47,74,74
	..	..	..	..	..	2,02,694	..	..
Grand Total	2,67,53,121	6,00,65,204	4,35,66,869	20,04,88,265	92,83,442	2,76,39,385	3,69,22,827	7,36,17,761
	9,68,56,192	..	..	..	4,37,48,312	5,60,16,738	9,87,65,050	29,92,53,31

* Represents figures relating to Construction Branch.

APPENDICES

Liabilities and other credits.

	Pykara.	Mettur.	Papanasam.	Total, H.E. systems.	Madras.	Andhra Power system.	Total Thermal systems.	Grand Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Reserve for								
(i) Depreciation	89,63,361	53,41,541	13,17,416	1,56,22,318	22,17,725	3,00,019	25,17,744	1,81,40,062
(ii) Extraordinary cases	36,16,227	19,71,012	5,25,988	61,13,227	3,14,195	43,100	3,67,235	64,70,522
(iii) Stabilisation of Assets	..	..	..	..	..	..	..	..
(iv) Development	..	..	..	..	..	..	..	..
(v) Amortization of Electric Plant Adjustment	..	..	..	..	..	..	..	..
(vi) Uncollective Bills	..	..	..	..	..	..	..	..
(vii) Insurance	..	..	..	..	..	..	..	..
(viii) Injuries and Damages	..	..	..	..	..	..	..	..
(ix) Employees' Provident Fund	58,706	..	..	58,706	..	..	..	58,706
(x) Leave salaries	..	..	..	..	..	..	..	..
(xi) Other reserves	..	..	..	..	..	..	..	..
(xii) Reserve for Tools and Plant	1,47,324	..	..	1,47,324	56,214	..	56,214	2,03,538
Total Reserves	1,27,85,618	73,12,553	18,43,404	2,19,41,575	25,88,134	3,43,119	29,31,253	2,48,72,828
Earned Surplus	2,22,96,727	93,92,367	25,19,590	3,42,08,684	22,57,892	18,95,672	3,62,220	3,45,70,904
Grand Total	9,68,56,192	6,00,65,204	4,35,66,869	20,04,88,265	4,37,47,312	5,50,16,738	9,87,65,050	29,92,53,315

APPENDIX J—cont.

Income and Expense Accounts, 1949-50.

(1)	Operating revenues.					
	Pykara. (2) RS.	Mettur. (3) RS.	Papanasam. (4) RS.	Total H.E. systems. (5) RS.	Madras. (6) RS.	Andhra. (7) RS.
Licenses ..	..	3,37,175	8,83,708	43,13,641	..	5,57,647
H.T. Industrial ..	..	29,39,126	7,53,954	40,70,913	7,28,687	3,69,616
L.T. Industrial ..	..	2,87,572	1,73,951	8,30,297	4,12,107	1,94,911
Agricultural ..	..	12,67,171	63,413	18,87,766	21,878	73,181
Domestic ..	..	5,48,956	4,89,129	14,56,804	25,16,936	4,50,902
Commercial ..	..	58,853	52,062	1,10,905	20,66,470	28,261
Municipal ..	..	6,50,063	2,70,592	13,28,397	98,370	2,84,762
Street lighting ..	..	59,996	93,436	2,19,028	1,04,661	46,596
Railways ..	..	19,615	1,59,797	1,79,412	5,61,724	..
Government Departments ..	..	7,31,081	11,560	8,21,868	5,02,997	48,593
Miscellaneous Deposits and Sales ..	..	1,930	41,013	42,943	1,55,932	3,379
Water Works..	..	11,937	..	11,937	..	..
Surcharges ..	..	..	..	..	..	..
War Costs ..	..	6,29,607	5,41,780	14,47,093	5,47,595	1,63,462
Industrial ..	..	1,36,164	1,68,019	6,46,316	74,867	..
Hydro-Electric ..	..	4,44,417	5,21,919	9,66,336	..	6,912
Fuel ..	..	..	..	..	13,38,697	7,74,759
Annual Minimum ..	..	71,819	49,826	1,56,794	..	50,665
Total ..	81,96,482	67,95,679	34,99,288	1,84,90,449	91,30,921	30,53,646
						1,21,84,567
						3,06,75,016

Total ..

(1)	Operating expenses.					
	Pykara. (2) RS.	Mettur. (3) RS.	Papanasam. (4) RS.	Total H.E. systems. (5) RS.	Madras. (6) RS.	Andhra. (7) RS.
Generation—						
Supervision ..	..	66,240	63,999	1,71,849	1,25,440	60,770
Labour ..	..	15,159	24,850	55,734	1,44,564	1,30,763
Expenses ..	..	2,058	68,872	2,05,619	63,886	17,13,533
Maintenance ..	..	1,28,188	31,950	2,64,134	46,18,559	1,21,472
Transmission Lines—						
Supervision ..	..	1,08,360	53,690	2,32,084	..	..
Labour ..	..	80,034	48,047	2,25,026	..	..
Expenses ..	..	53,505	31,912	91,926	..	..
Maintenance ..	..	1,61,007	36,366	3,23,140	..	..
Distribution—						
Supervision ..	..	1,07,520	66,339	2,61,597	1,56,986	43,174
Labour ..	..	2,02,520	62,290	5,81,037	3,93,499	85,370
Expenses ..	..	1,07,213	37,632	1,69,919	18,425	22,563
Maintenance ..	..	2,16,488	64,492	5,45,834	2,90,024	1,11,706
Commercial—						
Meter Reading and Collection ..	..	78,324	5,400	83,724	87,878	..
Supervision ..	..	36,600	..	53,330	..	2,672
Expenses ..	..	82,383	21,902	31,623	..	26,696
Accounting ..	..	4,658	73,645	1,77,910	77,344	..
Audit ..	..	1,68,992	4,680	17,426	9,984	9,984
Administration ..	..	1,12,390	1,11,979	6,46,624	49,140	2,81,498
Hea quarters Charges ..	..	3,36,794	45,173	2,49,284	1,17,391	38,541
Other Miscellaneous Expenses ..	..	80,577	1,20,950	5,41,394	1,38,283	71,867
Depreciation ..	..	2,22,614	..	50,577	..	..
Power Purchased ..	..	..	1,73,293	6,95,782	..	32,878
Amortisation costs of plant adjusted ..	..	16,372	4,382	37,378	4,383	702
Property charges to operation ..	..	29,665	7,364	37,029	..	(—) 8,842
Tools and Plant ..	..	..	..	..	..	..
Total ..	23,87,770	22,25,025	11,39,205	57,52,000	65,96,786	27,36,363
						93,32,149
						150,84,149

APPENDIX J—cont.

Income and Expense Accounts, 1949-50—cont.

(1)	Operating revenues.					Grand Total.
	Pykara.	Mettur.	Papanasam.	Madras.	Andhra.	
	(2)	(3)	(4)	(5)	(7)	(9)
	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward	31,95,482	67,05,679	34,99,286	1,34,00,449	91,30,921	30,53,646
Other Income—						
Merchandising, jobbing and contracting works.	12,658	3,36,379	18,381	3,67,488	..	3,67,428
Income from rents and other non-utility operation.	12,461	44,538	..	57,019	5,986	66,740
Revenue from hire and lease	3,588	4,288	661	8,637	3,966	6,619
Interest from investments	3,19,904	1,74,051	64,135	5,18,000	2,162	1,75,156
Miscellaneous revenue	1,23,707	1,63,638	71,348	3,58,633	60,555	2,27,892
Total	86,67,830	75,18,573	36,13,803	1,98,00,006	94,83,991	3,24,10,612

APPENDICES

(1)	Operating expenses.					Grand Total.
	Pykara.	Mettur.	Papanasam.	Madras.	Andhra.	
	(2)	(3)	(4)	(5)	(7)	(8)
	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward	23,67,770	32,26,006	22,39,206	57,82,900	66,96,786	27,36,363
Non-operating revenue deductions—						
(i) Annual repairs to buildings	28,819	..	..	28,319	22,821	22,821
(ii) Repairs to leased property	..	..	..	..	..	..
(iii) Interest on consumers deposits	..	..	..	..	28,000	22,000
Income Deductions—						
Audit fees	16,856	17,677	7,367	41,849	50,809	84,042
Interest on loans	19,25,009	18,25,387	12,72,006	48,33,002	6,76,357	60,29,120
Depreciation expenses, etc.	12,76,366	11,34,969	6,62,164	31,00,488	12,86,113	12,06,118
Net income	29,34,962	96,16,716	6,44,071	50,94,048	8,81,435	14,00,886
Total	86,67,830	76,38,873	36,13,803	1,98,00,206	94,83,991	3,24,10,612

Details.	Operating expenses.					Grand Total.
	Viakha- patham.	Vuayavada.	Kakinada.	Kurnool.	Cuddapah.	
(1)	(2)	(3)	(4)	(5)	(6)	(10)
	RS.	RS.	RS.	RS.	RS.	RS.
Licenses	1,97,326	2,24,601	..	..	..	171
H. T. Industrial	2,13,101	1,14,520	..	..	..	..
L. T. Industrial	71,103	86,678	31,643	20,349	11,787	..
Agricultural	1,35	67,033	1,039	9	2,380	..
Domestic	1,75,769	37,651	33,967	63,319	58,535	..
Commercial	10,593	881	8,269	2,206	6,955	..
Municipal	..	1,99,314	79,979	..	..	..
Street light	12,567	3,954	11,293	9,082	6,230	..
Government departments	34,755	..	..	..	..	..
Miscellaneous department and sales	..	287	..	..	51	..
Water works	..	..	..	..	..	..
Surcharges—						
War costs	56,704	34,527	28,189	19,137	17,626	34
Industrial	..	..	..	..	..	..
Fuel	2,26,772	4,60,616	87,371	..	..	..
Annual minimum	19,902	30,550	300	12	..	..
Hydro surcharge	..	..	..	..	..	..
Other incomes—						
Income from merchandising, jobbing and contracting work	..	..	..	..	..	..
Income from rents and other non-utility operations	1,326	3,792	661	..	120	23
Revenue from hire and lease	10,034	1,018	..	..	1,926	..
Interest from investments	1,780	412	..	..	..	..
Miscellaneous revenue	16,237	20,880	7,703	6,482	7,262	582
Total	10,40,936	12,96,724	3,45,297	1,21,373	1,12,361	27,923
						1,36,715
						31,26,315

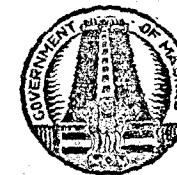
G.O.

ity Department

APPENDIX J—cont.
Andhra Power System, Vijayavada—cont.

	Operating expenses.							Grand Total.
	Visakhapatnam.	Vijayavada.	Kakinada.	Kurnool.	Cuddapah.	Anantapur.	Rajahmundry.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Generation—								
Supervision	21,120	23,784	8,892	4,826	2,378	2,547	4,396	60,770
Labour	42,198	49,155	12,290	7,983	6,172	22,800	6,969	1,30,763
Expenses	4,43,217	8,79,214	2,32,023	66,813	62,416	5,223	2,789	17,13,833
Maintenance	24,264	68,101	8,843	2,168	10,275	5,223	2,789	1,21,472
Transmission Lines—								
Supervision	16,420	12,796	8,280	5,091	1,587	369	805	43,174
Labour	24,703	29,808	13,064	1,233	1,809	408	1,644	85,370
Expenses	6,719	7,944	2,054	2,290	1,085	2,120	240	23,563
Maintenance	25,497	48,112	15,696	3,721	13,980	2,120	240	1,11,706
Distribution—								
Supervision	16,420	12,796	8,280	5,091	1,587	369	805	43,174
Labour	24,703	29,808	13,064	1,233	1,809	408	1,644	85,370
Expenses	6,719	7,944	2,054	2,290	1,085	2,120	240	23,563
Maintenance	25,497	48,112	15,696	3,721	13,980	2,120	240	1,11,706
Commercial—								
Supervision	888	888	888	108	788	254	254	2,672
Expenses	3,467	19,601	1,326	268	402	12,203	1,644	26,696
Administration	96,749	96,938	24,483	7,828	13,262	4,498	1,644	2,21,498
Headquarters charges	13,026	16,317	4,235	1,498	1,216	4,498	1,644	38,541
Other Miscellaneous Expenses	11,579	18,450	6,266	6,619	9,469	4,498	1,644	71,867
Power purchased	116	417	8	161	104	104	104	702
Property charged to operation	5,179	7,225	1,664	926	1,034	3,786	27,36,363	98,52,5
Tools and plant	6,078	11,811	3,034	935	1,034	2,821	2,821	1,40,84
Income Deductions—								
Audit fees	1,78,287	2,89,530	40,222	6,689	15,043	18,000	18,000	24,233
Interest on loans	1,47,100	28,000	..	..	..	..	..	5,29,751
Taxes assumed on interest charged to cons.	10,55,249	16,09,373	3,65,926	1,19,177	1,42,122	50,809	84,333	1,75,100
Provision depreciation expenses	14,313	3,12,649	20,629	2,196	29,761	6,76,357	6,20,751	12,06,1
Total	10,40,936	15,724	3,45,297	1,21,373	31,00,488	12,86,113	1,75,100	34,65,447
Net income	8	76,38,873	36,13,803	1,98,00,205	94,8,285	31,25,316	1,27,27,923	31,26,315

Miscellaneous



PUBLIC WORKS DEPARTMENT

(Electricity)

G.O. No. 3066, 24th July 1951

Electricity Department—Administration Report for 1950-51—Recorded.

AD—the following paper :—

From the Chief Engineer (Electricity), dated 13th June 1951,
No. 1246-E/51-41.

Order—No. 3066, P.W. (Electricity), dated 24th July 1951.

Recorded.

2. This is the twenty-fourth Annual Report of the Government Electricity Department and it contains a record of progress of Electrical Development in the State. The works included in the five-year plan were in progress, e.g., Machkund, Moyar, Pykara, Papanasam, etc. The aggregate demand under the Government systems during the year under review was 147,500 K.W. as against 129,137 K.W. in 1949-50 and the total number of units generated was 681.59 millions as against 605.8 millions in 1949-50. The net revenue realized from the Hydro-Electric Systems was 119.24 lakhs and the return on the capital outlay was about 8 per cent. The number of units generated at the thermal stations were as follows :—

	Year of operation.	Number of units generated.
Madras	Fourth	120.80 millions
Madurai	First	1.07 "
Visakhapatnam	Twelfth	13.40 "
Vijayavada	Do.	22.63 "
Kakinada	Eleventh	3.67 "
Kurnool	Fourth	0.876 "
Cuddapah	Third	0.694 "
Anantapur	Second	0.28 "
Sandur	Do.	0.047 "
Nellore	First	1.05 "

3. Capital expenditure on new projects and extensions during the year totalled Rs. 7.37 crores lowering the record expenditure incurred in the previous year. Two big thermal stations were commissioned during the year—the Nellore Thermal Station on 2nd October 1950 and the Madurai Thermal Station on 19th February 1951. A fourth turbo-alternator set was commissioned in the Visakhapatnam power-house during March 1951 and a fourth transformer was erected and tested at Papanasam power-house.

OPERATING EXPENDITURE						
	Vizakha- patnam.	Vilaya vada.	Kakinada.	Kurnool.	Cuddapah.	Anantapur.
Rajah-mundry.	(8)	(6)	(7)	(8)	(9)	(10)
Obed District Scheme.	(9)	(10)	(11)	(12)	(13)	(14)
Grand Total.	(15)	(16)	(17)	(18)	(19)	(20)

Name of licensee.	Date of taking over.
1 Proddatur	29th December 1950.
2 Alandur	25th January 1951.
3 Villivakkam	15th February 1951.
4 Narasaraopet	26th February 1951.
5 Hospet	16th March 1951.

5. Owing to the partial failure of the north-east monsoon in the Mettur catchment area and the extended period of irrigation discharge at Mettur, the storage in the Mettur reservoir became unsatisfactory, necessitating the imposition of a 15 per cent cut on all but a few essential consumers in the hydro-electric areas from 15th February 1951. Good inflows in April, however, enabled the withdrawal of the cut in May 1951.

7. The restrictions on the working of oil engine generating stations continued to be in force during the year. The restriction and control orders were continued for a further period of one year from 1st October 1950.

9. The department participated in the International Exhibition held at New Delhi in January and February 1951. The models exhibited were appreciated by all including the Hon'ble Prime Minister of India.

(By order of His Excellency the Governor)

T. M. S. MANI,

Secretary to Government.

To the Chief Engineer (Electricity).
 " Chief Electrical Inspector to Government.
 " Public Department.