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Administration Report
of the
Electricity Dept.

1952-53.



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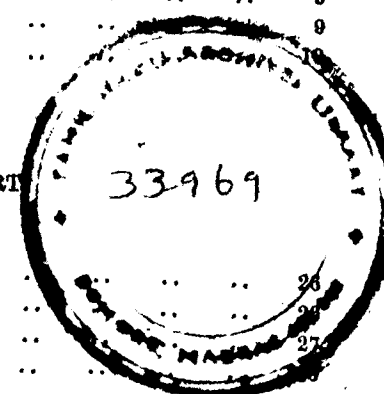
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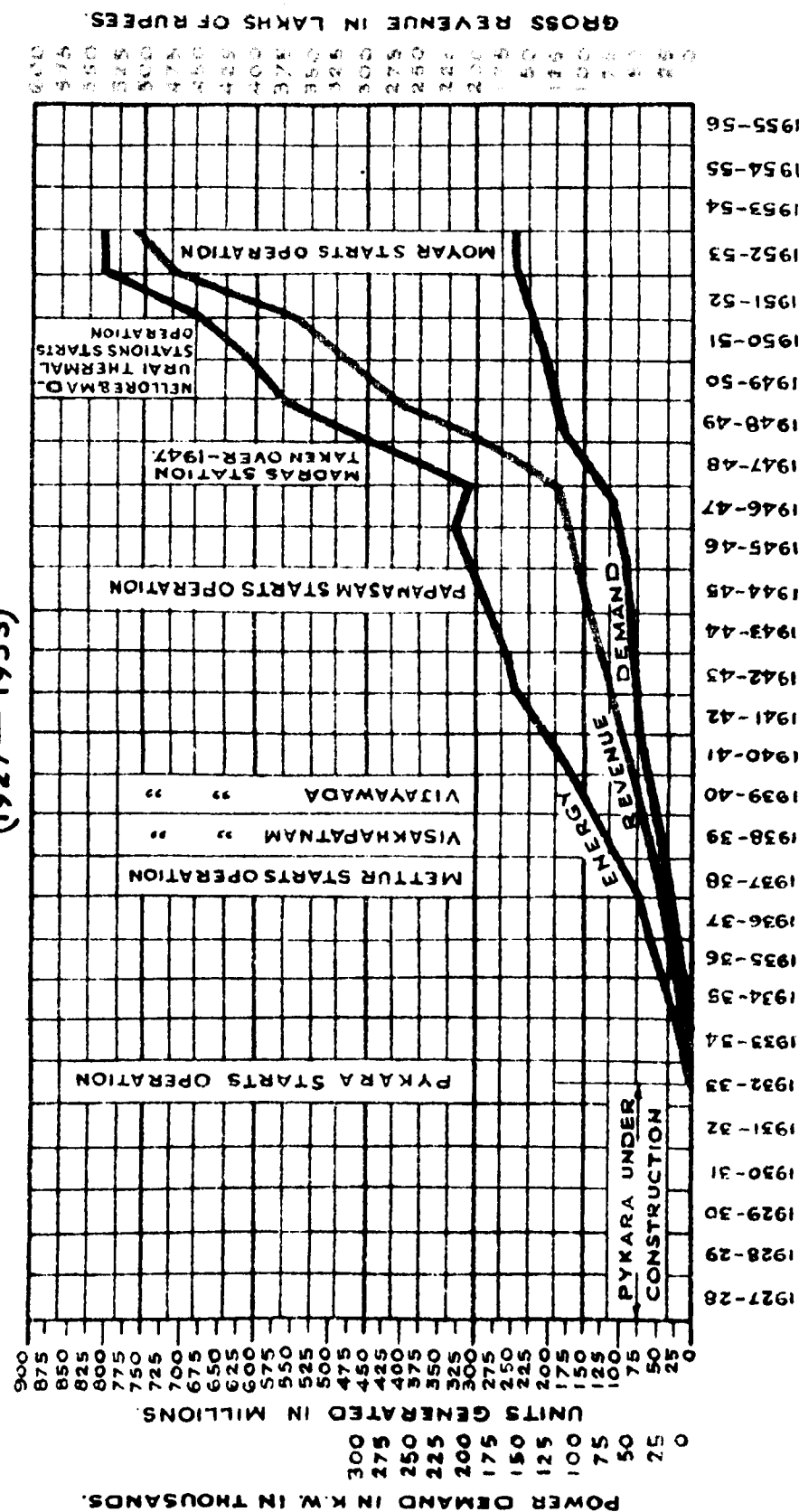
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MADRAS ELECTRICITY DEPT. GROWTH OF POWER DEMAND & REVENUE (1927—1953)



ADMINISTRATION REPORT OF THE ELECTRICITY DEPARTMENT FOR THE YEAR 1952-53.

SECTION I—GENERAL REVIEW.

1. *Introduction.*—The Report under review is the Twenty-sixth Annual Report of the Electricity Department covering the year 1952-53.

2. *Salient features.*—The salient features in the administration of the Department during the year were—

(1) The capital expenditure on new projects and extensions under construction during the year totalled Rs. 7.90 crores.

(2) The gross and net revenues earned by the Department were rupees 517 lakhs and Rs. 130.0 lakhs respectively.

(3) The three 12,000 KW. generating units and two of the three 15,000 KVA Step-up power transformers at the Moyar Power House were commissioned.

(4) Two 80,000 lb./our boilers were commissioned at the Basin Bridge Power House of the Madras Electricity System, one in May 1952 and the 2nd in November 1952 respectively.

(5) Two numbers 224 KW. diesel generator sets were erected at the Udipi Power House and 24 hours' supply given in the area.

(6) Two numbers 224 KW. diesel generating sets were added to the Kakinada Power House in October 1952 increasing its installed capacity to 1,882 KW.

(7) The Papanasam-Koyattar 66 KV. line, the Madurai-Sivaganga 66 KV. line and Tirumangalam-Rajapalayam-Tenkasi 66 KV. lines were completed and put into service.

(8) Narasaraopet and Ongole areas so far fed by local Power-houses were connected to the Vijayavada Power-house, on completion of the Guntur-Narasaraopet and Bapatla-Chirala-Ongole lines.

(9) Power demands totalled 166,220 KW. and energy generated by the Department amounted to 795.447 million units.

(10) Due to the failure of the monsoons for the fifth year in succession—drastic power cuts, this time reaching 66 2/3 per cent on all but essential consumers had to be imposed on the consumption of energy in the hydro-electric systems of the South.

(11) Electricity was extended to 228 villages and 2,961 irrigation pumpsets during the year. The villages electrified and the pumpsets connected in the State so far number 2,456 and 21,846 respectively.

(12) In view of the financial stringency, work on many sanctioned schemes for extension of supply could not be taken up. A scheme for execution of works on the basis of voluntary loan contribution from the beneficiaries was approved by Government. There is a small response for this scheme in the Madras and Andhra Power Systems.

3. *Load development.*—The demand for power for industrial and agricultural purposes continues to be on the increase. In view of the paucity of funds, shortage of generating and transformer capacity, new supplies were confined to domestic, agricultural and a few essential industries.

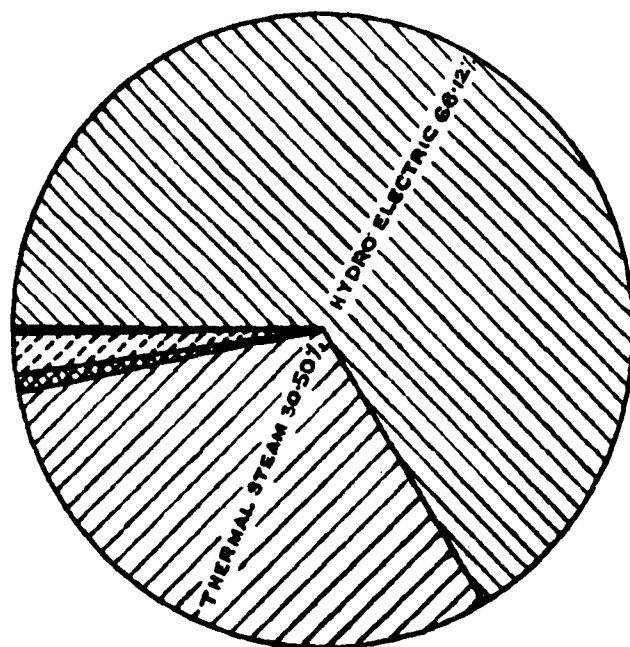
The aggregate of the power demands on the Government system was 166,220 KW. and the units generated 795·447 millions against 166,275 KW. and 800·21 millions in the previous year. Details are furnished hereunder:—

Name of system.	System demand in KW.	Generation in millions of units.
I. Hydro-electric—		
1 Pykara	45,100	220·775
		+ 84·563 (Moyar).
2 Mettur	45,900	137·620
3 Papanasam	22,000	85·660
		+ 19·811
		(Madurai thermal station.)
II. Thermal—		
(a) Steam—		
1 Madras	30,200	152·170
2 Visakhapatnam	4,500	19·216
3 Vijayavada	9,487	47·717
4 Nellore	1,225	4·736
(b) Diesel—		
5 Kakinada	910	0·612
6 Kurnool	360	1·256
7 Cuddapah	270	0·895
8 Anantapur	235	0·647
9 Sandur	40	0·059
10 Srikakulam	124	0·236
11 Narasannapeta	22	0·030
12 Ongole	136	0·206
13 Narasaraopet	90	0·047
14 Proddatur	124	0·337
15 Nandyal	180	0·296
16 Tadpatri	75	0·144
17 Rajahmundry	620	0·530
18 Udupi	160	0·280
19 Karkala	35	0·056
III. Power purchased from Mysore and other sources—		
1 Ceded districts	3,930	15·932
2 Hindupur	272	0·876
3 Kollegal	140	0·450
4 Fort Cochin	85	0·266
Total	166,220	795·447

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

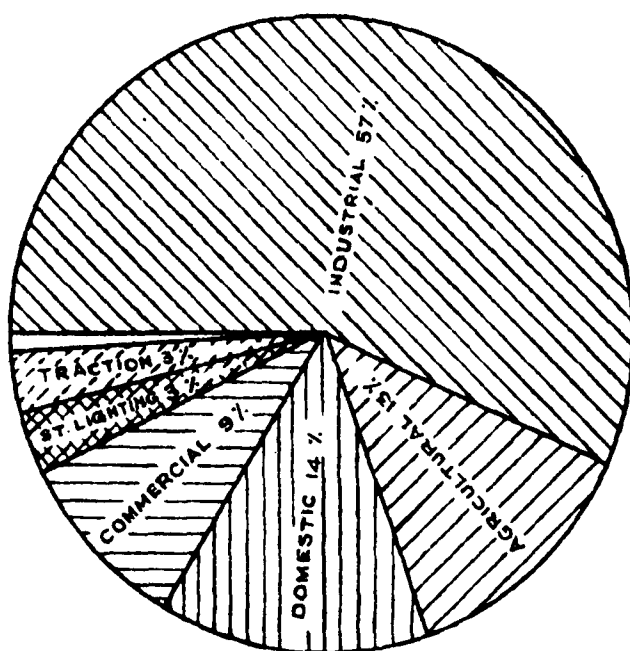
Source of generation.	Generation in millions of units.	Percentage of total.
I. Government		
1 Hydro-electric	528·618	66·12
2 Thermal, steam	243·660	30·50
3 Thermal, diesel	5·655	0·71
4 Purchased from Mysore and other sources.	17·524	2·19
II. Licensees (thermal)		
Total	799·335	100·0

HOW POWER IS GENERATED (1952-53)



HYDRO ELECTRIC	66.12 %
THERMAL STEAM	30.50 %
THERMAL DIESEL	0.71 %
PURCHASED FROM MYSORE	2.19 %
LICENSEES	0.48 %

HOW POWER IS UTILISED (1952-53)



INDUSTRIAL	57 %
AGRICULTURAL	13 %
DOMESTIC	14 %
COMMERCIAL	9 %
ST. LIGHTING	3 %
TRACTION	3 %
MISCELLANEOUS	1 %

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ELECTRICITY DEPARTMENT FOR 1952-53

3

A graph showing hydro and thermal power generated in Madras State from the inception of the department, i.e., from 1932 to 1953, faces page 2.

The total generation in the State decreased by about 0.8 per cent over the figure of 806.15 millions for 1951-52 due to the poor water conditions in the hydro-electric reservoirs caused by failure of the monsoons. As seen from the above figures, almost the entire power generation in the State was by the Department.

Power generated was utilized as under:—

Serial number.	Use.	Percentage of total power utilized.
1	Industrial supplies	57
2	Irrigation and agriculture	13
3	Domestic heat, power, lights and fans	14
4	Commercial heat, power, lights and fans	9
5	Public lighting	3
6	Traction	3
7	Miscellaneous	1
Total		100

Two charts showing the power generation and power utilization in the State during 1952-53 face this page.

4. *Financial results.*—The gross revenue earned by the departmental undertakings in operation during 1952-53 was Rs. 516.76 lakhs as against Rs. 471.20 lakhs in 1951-52 registering an increase of about 9.7 per cent. Details of capital outlay, gross revenue, working expenses and net revenue of the systems are furnished hereunder:—

Name of system.	Year of operation.	Total capital outlay.	Gross revenue.	Total working expenses.	Net revenue.
(1)	(2)	(3)	(4)	(5)	(6)
		RUPEES IN LAKHS.	RUPEES IN LAKHS.	RUPEES IN LAKHS.	RUPEES IN LAKHS.
I. Hydro-electric Schemes—					
1 Pykara	Twentieth.	619.88	118.26	58.74	59.52
2 Mettur	Sixteenth	510.03	103.55	72.90	30.65
3 Papanasani	Ninth	547.12	54.52	37.09	17.43
II. Thermal—					
1 Madras	Sixth	483.59	155.12	132.21	22.91
2 Visakhapatnam	Fourteenth.	91.45	18.23	19.00	—0.77
3 Vijayavada	Do.	230.90	39.41	39.66	—0.25
4 Kurnool	Seventh	7.03	2.49	2.70	—0.21
5 Cuddapah	Fifth	9.22	2.26	1.89	0.37
6 Anantapur	Fourth	8.71	1.54	1.75	—0.21
7 Sandur	Do.	0.97	0.15	0.25	—0.10
8 Nellore	Third	71.42	6.31	8.89	—2.58
9 Proddatur	Second	5.62	0.84	0.87	—0.03
10 Nandyal	First	6.57	0.71	0.81	—0.10
11 Tadipatri	Do	0.09	0.41	0.73	—0.32
III. Power from Mysore—					
Ceded districts and Hindupur	Fourth	97.92	12.96	9.05	2.91
Total		2,696.52	516.76	386.54	130.22

The return on capital outlay in operating systems works out to 19.2 per cent gross and 4.8 per cent net.

The receipts from the Inspectorate amounted to Rs. 15.46 lakhs made up of Rs. 13.06 lakhs from the Electricity Duty, Rs. 1.32 lakhs from inspections under the Indian Electricity Act and Cinematograph Act, Rs. 0.94 lakhs from penalty for excess consumption of electricity and Rs. 0.10 lakh from fees for audit of licensees accounts and Rs. 0.04 lakh from miscellaneous sources.

5. *Number of consumers.*—There were 3,79,205 consumers at the end of 1952-53 served by all the electrical undertakings in the State including Government areas compared to 3,39,605 consumers at the end of 1951-52.

Three lakhs seventy-two thousand six hundred and four consumers were in the areas served by power generated from Government undertakings, 1,92,141 served directly by the Electricity Department and 1,80,463 by licensees distributing Government Power. The balance of consumers, viz., 6,601 were served by self-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	47,388	26,513	..
2 Mettur	28,827	96,022	..
3 Papanasam	34,606	39,337	..
II. Thermal—			
1 Madras	47,708	1,244	..
2 Visakhapatnam	4,391	4,424	..
3 Vijayavada	5,805	12,923	..
4 Kakinada	5,211	..	..
5 Kurnool	1,802	..	..
6 Cuddapah	1,461	..	..
7 Anantapur	1,254	..	..
8 Sandur	329	..	..
9 Rajahmundry	1	..	..
10 Nellore	2,659	..	..
11 Srikakulam-Narasannapeta	878	..	..
12 Ongole	650	..	..
13 Narasaraopet	827	..	..
14 Proddatur	630	..	..
15 Nandyal	568	..	..
16 Tadipatri	515	..	..
III. Power purchased from Outside—			
1 Ceded Districts	5,510	..	..
2 Hindupur	788	..	..
3 Kollegal	533	..	..
Total	1,92,141	180,463	..
Other licensees	..	..	6,601
Total	..	..	3,79,205

Supply was extended to 182 villages and towns by the Department and to 46 villages and towns by the licensees during the year.

The total number of villages and townships having electric supply at the end of 1952-53 were 2,298 and 158 respectively. The numbers supplied by the Department and by licensees are shown below:—

	Number of villages.	Number of towns.
Supplied by the Department	1,516	77
Supplied by the licensee	782	81
Total	2,298	158

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

6. *Transmission lines and sub-stations.*—The route mileage of Government transmission and distribution net work increased by 1,390 miles during the year. The total miles of high-tension and low-tension lines in each system at the end of the year are furnished hereunder to the nearest mile.

Name of system.	Number of route miles of lines.		Total.
	H.T.	L.T.	
1 Pykara	1,940	2,335	4,275
2 Mettur	1,949	1,251	3,200
3 Papanasam	716	624	1,340
4 Madras	417	716	1,133
5 Andhra	1,167	693	1,860
6 Rayalaseema	499	351	850
Total	6,688	5,970	12,658

Details of power transformer stations are furnished below:—

E.H.T. and H.T. Transformer stations.

System.	66 and 110 K.V.		22 and 33 K.V.	
	Number.	Capacity. K.V.A.	Number.	Capacity. K.V.A.
1 Pykara	10	84,250	3	2,750
2 Mettur	18	66,250	10	11,250
3 Papanasam	7	40,500	5	20,625
4 Madras	2	23,000	12	33,000
5 Andhra	..	..	18	12,200
6 Rayalaseema	4	6,500	6	5,800
Total	41	2,20,500	54	85,625

NOTE.—The statement does not include transformers in power houses.

7. *Agricultural development.*—As usual, top priority was given in the matter of supply to agricultural loads with a view to aid the grow more food campaign. Even during the acute water shortage period in the hydro-areas when new industrial loads of more than 3 h.p. were banned, new agricultural

loads were connected up without restriction. During the year, 2,445 agricultural pumpsets were connected up by the Department and 516 by licensees. Details of agricultural services with their connected load in the different areas at the end of 1952-53 are given below:—

Name of the system.	Number of services connected in 1952-53.	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 1952-53.
(1)	(2)	(3)	(4)	(5)
1 Pykara System	658	2,737	8,199 *	30,340
2 Mettur System	600	2,450	5,028 †	19,412
3 Papanasam System	383	1,217	2,049 ‡	6,545
4 Madras System	177	1,227	1,251 §	6,304
5 Andhra System	458	1,579	1,191 ||	4,226
6 Rayalaseema System	169	761	277	1,200
Total ..	2,445	9,971	17,098	74,027
Licensees distributing Government power.	516	1,693	3,848 ¶	14,363
Total ..	2,961	11,664	21,846	88,390

NOTE.—* Last year's figure of 7,571 for agricultural pumpsets and connected load reported as incorrect.

† Includes 25 pumpsets with a connected load of 89 K.W. taken over from Tiruvannamalai under takings.

‡ Includes 174 agricultural pumpsets with a connected load of 633 K.W. taken over from the acquired undertaking.

§ Includes 70 agricultural pumpsets with a connected load of 313 K.W. taken over from Kancheepuram Licensee, 6 agricultural pumpsets with a connected load of 316 K.W. taken over from the Trivallore licensee and 462 Agl. Pumpsets with a connected load of 22.38 K.W. transferred from Mettur System and added.

|| Last year's figure of 731 number pumpsets reported as incorrect.

¶ Last year's figure reported as incorrect.

The target for agricultural pumpsets for 1952-53 was 2,460 and the Department could connect up 2,445, very near the target.

8. (1) *Rural Welfare Schemes (Southern area).*—A large number of schemes, (24 schemes) costing over Rs. 18.82 lakhs have been sanctioned in the year under the Firka Development Scheme for supplying power for agricultural, industrial and domestic purposes covering 35 villages in Tirumangalam, Pannikundu, Sankarankoil, Pazhamcottai, Turinjapuram, Kalasapakkam, Tiruppur and Avanashi firkas. Over 720 wells with a connected load of over 3,800 H.P. and a number of domestic lighting services will be connected up under these schemes.

(2) *Rural Welfare Schemes (Northern area).*—Supply to the following services were effected in the firka areas of Pendurthi, Rajahmundry Dendulur, Alur, Hindupur, Tiruvellore and Mappedu.

	Numbers.
Agricultural services	147
Industrials services	15
Domestic	317
Street lights	44

Five schemes costing Rs. 9.6 lakhs for extensions in Hindupur and Tiruvellore firkas were sanctioned by Government during the year.

New schemes have been evolved at an estimated cost of about Rs. 141.3 lakhs for supply to Araku valley firka, Dharmarajugudem firka, Kamavarapukotah firka, Tiruvur firka and Madakasira firka and they are under scrutiny

9. *Construction activities.*—Construction works connected with the Five-Year Plan of power development in the State (excepting distribution of power) were in full swing and a total capital expenditure of Rs. 4.69 crores was incurred on major projects and transmission lines. One of the major projects included in the Five-Year-Plan, viz., The Moyar Hydro-electric Scheme, commenced operation.

The following major projects and lines were in progress:—

- (1) The Moyar Hydro-electric Scheme (balance of works).
- (2) The Pykara Plant Extensions III Stage.
- (3) The Madurai Thermal Scheme.
- (4) The Machkund Hydro-electric Scheme.
 - (a) The Vijayavada-Rajahmundry-Samalkot Extensions.
 - (b) The Visakhapatnam Power-House Extensions.
- (5) The Madras Power Station Extensions.
- (6) The Tungabhadra Hydro-electric Scheme.
- (7) The Nellore Thermal Scheme.
- (8) The Madurai-Tirumangalam-Rajapalayam-Tenkasi 66 KV. line.
- (9) The Madurai-Sivaganga 66 KV. line.
- (10) The Papanasam-Tirunelveli-Kayattar 66 KV. line.
- (11) The Erode-Salem 66 KV. line.
- (12) The Erode-Tiruchirapalli-Dalmiapuram Extensions.
- (13) The Pykara-Madurai-Coimbatore 110 KV. line.
- (14) The South Kanara Scheme.

Detailed reports on the present stage of the above works are given in Section II of the Report.

10. *New schemes sanctioned.*—The Coimbatore-Madukkarai-Palghat-Shoranur 110 KV extensions estimated at Rs. 77.0 lakhs initially rising to Rs. 79.8 lakhs in ten years was the only major scheme sanctioned during the year.

11. *Programme for 1953-54.*—Work on the major projects, viz., Pykara III Stage Machkund and Tungabhadra hydro-electric projects and Madras plant extensions as well as on several transmission lines like Pykara-Coimbatore-Madurai III circuit, South Kanara extension from Jog, etc., will be in progress. Also diesel generating sets at several diesel stations will be erected and commissioned to augment the generating capacity in these areas.

12. *Power demand.*—The demand for power continues to be increasing and persistent. As mentioned in the last year's report, even with the completion of the hydro-electric schemes of Moyar and Pykara III Stage and Madras I and II Stages by 1954 there will be power shortage to the tune of 70 to 80 MW considering only demands for which commitments have been made

HOW POWER IS GENERATED



MACHKUND DIVERSION DAM—GENERAL VIEW OF DIVERSION DAM

It is essential that the Periyar and Kundah Hydro-electric Schemes (for which scheme reports have been already sent up to the Planning Commission) are taken up immediately. It is also essential that the additional 30 MW generator capacity at Madras thermal station III stage provided in the Five-Year Plan be ordered immediately so that better thermal support is available without delay to the area and the increasing demands of the Madras city met in time.

Negotiations are in progress with the Travancore-Cochin Government for bulk supply to Madras of 20,000 KW from their Sengulam and Poringalkushu Hydro-electric schemes which are expected to generate power by 1954. If this materialises it will go to meet the power shortage partially.

In the Machkund area also comprising the districts of Srikakulam, Visakhapatnam, West and East Godavari, Krishna and Guntur power shortage to the extent of about 14,000 KW is anticipated by 1955-56 even with the I Stage of Machkund commencing operation within this period. To meet this it is necessary to advance the erection of the 4th and 5th generating sets so that they are also available for generation by the time the Jalaput storage reservoir is completed which is expected by about 1957.

The deficit of power in the Ceded districts area will be met when Tungabhadra hydro-electric scheme commences operation. Similarly the power demand in South Kanara will be met fully when Jog supply from Mysore for which agreement with Mysore is nearing completion, becomes available.

13. *Electrical Inspectorate and licensees.*—The number of licensees undertakings at the close of the year was 43 of which 1 was operating under section 28 of the Indian Electricity Act and 9 managed by local bodies and the rest by private licensees.

No new licences or extension of period or area of existing licences were sanctioned.

The sanction given under section 28 of the Indian Electricity Act to Messrs. Kanara Ceramics, Limited, for distribution in the area of Kasaragod was extended up to 31st March 1953.

In view of the difficult financial position no loans were given to licensees for rural development. Permission was granted under section 9 (2) of the Indian Electricity Act to the West Coast and Guntur licensees to take mortgage loans of Rs. 7 and Rs. 4 lakhs respectively from the Madras Industrial Investment Corporation.

The accounts of 45 licensees were audited by the Audit Officer.

One thousand and one hundred and twenty-four cinemas were functioning at the end of the year out of which 571 were permanent and 553 were temporary.

The total number of accidents during the year including those on lines owned and operated by Government was 234 of which 112 were fatal.

14. *The Madras Electricity Supply Undertakings (Acquisition) Act, 1949.*—Due to financial position in the State the nationalization programme was not proceeded with as planned and no new undertaking taken over during the year.

Government appealed in the Supreme Court against the decision of the Madras High Court on the suit filed by nine local authority undertakings holding that the provisions of the Madras Electricity Supply Undertakings Acquisition Act, 1949, in so far as they relate to local bodies were *ultra vires* and the matter is pending before the Supreme Court.

The question of purchase of the Visakhapatnam Undertaking, which was being managed by Government under the provisions of the Revenue Recovery Act for default in payment of current consumption charges, by negotiation, was under consideration.

15. *Foreign training.*—Sri V. P. Appadurai, Superintending Engineer, Technical (Electrical), was on deputation to Canada under the Technical Assistance Co-operation Scheme for a period of six months from September 1952. By middle of March 1953 he proceeded to United States of America for training under the departmental deputation scheme for a period of three months in Tennessee Valley Authority and Bureau of Reclamation. Before returning to India he will visit United Kingdom, Sweden, Switzerland and France for a period of three months.

Sri B. V. Ananda Rao, Divisional Engineer (Electrical), and Sri P. K. Narayana Rao, Divisional Engineer (Electrical), proceeded on deputation to Australia under the Australian Government Fellowship Scheme in January 1953 and February 1953, respectively, for study of use of fuels for power generation with special reference to low-grade fuels like lignite. The deputation period in the case of the former is one year while in the case of the latter it is six months.

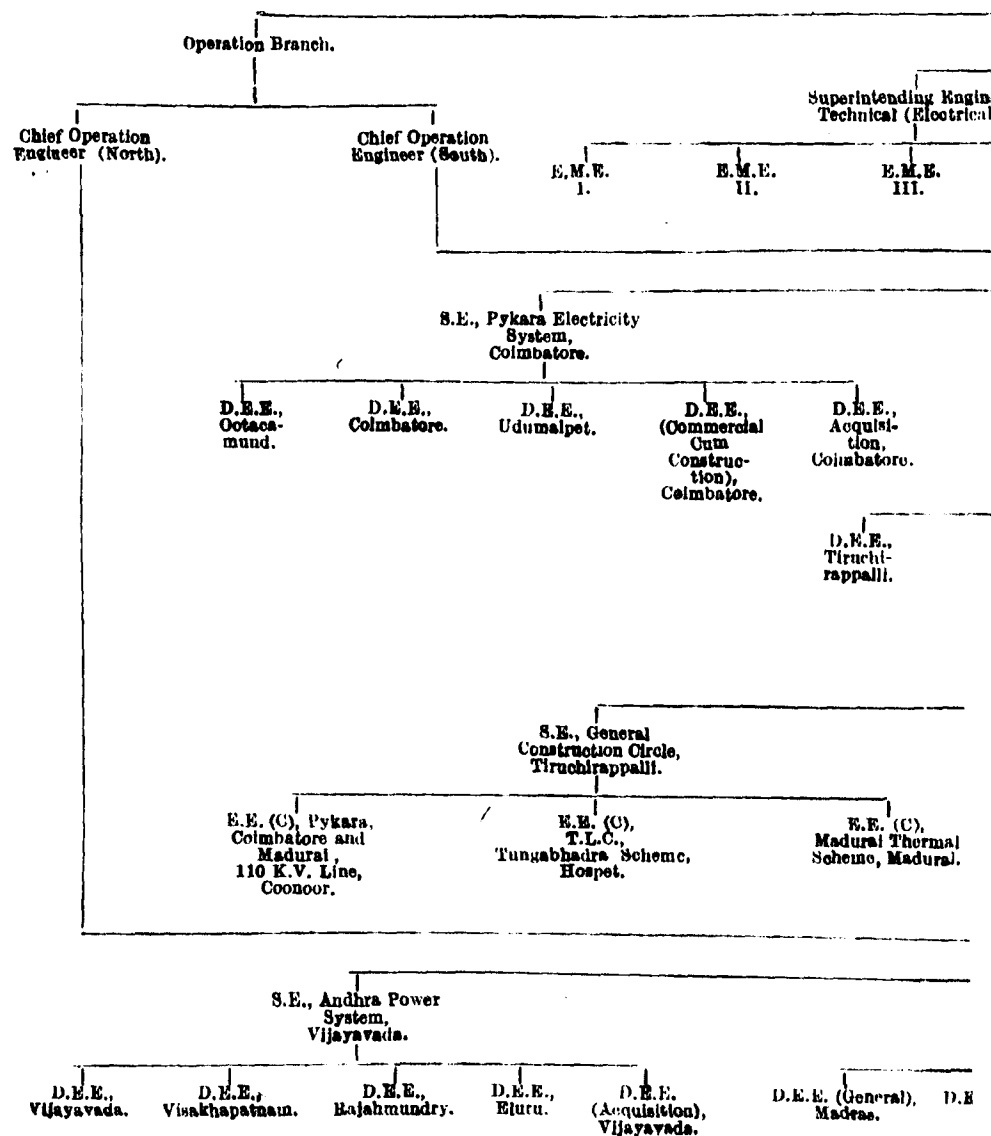
Sri K. Mani, Assistant Engineer (Electrical), proceeded on deputation to United Kingdom under the Technical Assistance Co-operation Scheme in March 1953 for a period of one year for study of power engineering (covering manufacture and application).

16. *Organization.*—The set up of the Department remained much the same as last year except for some changes which are mentioned below:—

(1) In the Construction Branch, the Madras-Mettur Interconnection Division at Kancheepuram under the Superintending Engineer, General Construction Circle, was closed down and the balance of construction work transferred to the Superintending Engineer (Generation), Madras Electricity System. Due to cut in capital expenditure the work on the Coimbatore-Madurai 110 KV line was stopped and the division at Udumalpet was suppressed. The Superintending Engineer, General Construction Circle, had thus only three divisions under him at the end of the year as noted in the chart.

(2) On the completion of the construction works at Moyar the two divisions one civil and the other electrical and mechanical, were closed during the year. The Superintending Engineer, Moyar circle, was having only the Pykara Dam Division under him at the end of the year.

(3) Consequent on the commissioning of the plant at Moyar Power House the Divisional Electrical Engineer, Nilgiris, had to be relieved of the lines and distributions in his charge to enable him to devote his attention fully to the operation and maintenance of the two power-houses at Singara and Moyar. A new Operation and Maintenance Division with headquarters



at Ootacamund was consequently formed during the year under the administrative control of the Superintending Engineer, Pykara Electricity System.

17. *Accounts Branch—General.*—The capital expenditure during 1952-53 amounted to Rs. 790 lakhs and the total capital investment to the end of the year was Rs. 4,692 lakhs.

The capital outlay on schemes in operation to end of March 1953 was Rs. 2,697 lakhs.

The gross and net revenue earned by the Department were Rs. 517 lakhs and Rs. 130 lakhs, respectively, during the year under review. The return works out to 19.2 per cent gross and 4.8 per cent net.

The Reorganized Accounts Branch continued to be busy during the year. The branch handled cash receipts of Rs. 488 lakhs and cash payments of Rs. 814 lakhs during the year. In addition, payments to the extent of Rs. 778 lakhs. Fifteen thousand seven hundred and ninety suppliers' Commissioner for India, London, etc., were watched and adjustments effected.

Stores receipts amounted to Rs. 942 lakhs and issues amounted to Rs. 773 lakhs. Fifteen thousand and seven hundred and ninety suppliers bills amounting to Rs. 593 lakhs were checked and payments made.

The following table gives the financial position of the Department as on 31st March 1953, at a glance:—

Dr.	RS. IN LAKHS.	Cr.	RS. IN LAKHS.
1 Fixed assets in operation ..	2,697	1 Capital invested	4,017
2 Fixed assets under construction ..	1,995	2 Reserves for depreciation and Special Reserve Fund	439
3 Stores	620	3 Accounts payable	298
4 Accounts receivable	263	4 Net surplus (excluding interest) ..	1,302
5 Investments	379		
6 Cash	2		
		Total ..	5,956
Total ..	5,956		

STATEMENT SHOWING THE UNITS GENERATED, WORKING EXPENSES AND THE COST PER UNIT GENERATED UNDER EACH MAIN HEAD OF EXPENSES (1952-53).

Financial year.	Units generated in millions	Detailed items of working expenses and the cost per unit generated.																	
		Establishment charges, allowances and recoveries.												Other items.					
		Provincial establishment and officers.				Operation Subordinate Service.		Nominal muster roll.		Fuel and lubricants.	Operation and maintenance expenses other than establishment.	Works expenditure financed from ordinary revenues.	Depreciation fund and special reserve fund.	Tools and plant.	Suspense.				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)							(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
		Gross expenditure.	Working expenses excluding suspense.	Managing agency fees.	Gross.	Loss recoveries.	Net.	Number employed.	Amount.	Number employed.	Amount.								
(IN LAKHS OF RUPEES.)																			
Pykara System.																			
1948-49	..	34.25	32.34	1.02	7.72	1.98	5.74	807	5.79	2,251	1.84	..	5.22	0.05	12.69	— 0.01	1.91		
		0.26	0.25	0.008	0.06	0.02	0.04		0.04		0.01		6.04	0.0004	0.10		0.015		
1949-50	..	41.51	37.11	1.35	8.63	2.33	5.80	871	7.13	3,241	1.53	..	7.39	0.16	13.75	..	4.40		
		0.298	0.27	0.01	0.05	0.02	0.04		0.05		0.01		0.05	0.0011	0.10		0.032		
1950-51	..	37.66	38.95	1.54	9.18	4.14	5.04	941	7.67	3,346	1.61	..	8.47	0.15	14.83	— 0.36	1.29		
		0.22	0.27	0.01	0.06	0.03	0.035		0.05		0.01		0.06	0.001	0.10		—		
1951-52	..	56.60	46.53	1.76	10.32	4.13	6.19	1,003	8.11	3,285	1.69	..	12.39	0.11	16.54	— 0.26	10.07		
		0.373	0.307	0.012	0.063		0.041		0.053		0.011		0.082	0.0007	0.109		0.066		
1952-53	..	59.90	58.74	1.48	12.50	3.01	9.49	1,045	8.99	1012	2.09	..	18.37	0.11	17.85	— 0.14	— 1.84		
		0.41	0.43	0.01	0.09	0.02	0.07		0.07		0.01		0.13		0.13		—		
		52.03	53.87										14.00				—		
		0.38	0.39										0.10				—		
Mettur System.																			
1948-49	..	35.02	31.91	0.80	8.04	2.53	5.46	1,029	5.90	733	3.33	..	5.84	0.24	9.37	0.47	3.11		
		0.36	0.33	0.008	0.08	0.03	0.06		0.06		0.03		0.06	0.0024	0.10	0.0048	0.032		
1949-50	..	42.39	34.64	0.92	8.97	4.04	4.33	1,057	6.66	708	2.88	..	7.67	0.17	11.35	0.66	7.75		
		0.42	0.345	0.009	0.09	0.046	0.043		0.07		0.03		0.05	0.0017	0.11	0.0066	0.077		

STATEMENT SHOWING THE UNITS GENERATED, WORKING EXPENSES AND THE COST PER UNIT GENERATED UNDER EACH MAIN HEAD OF EXPENSES (1952-53)—cont.

Detailed items of working expenses and the cost per unit generated.																					
Financial year.		Establishment charges, all wages and recoveries.										Other items.									
		Provincial establishment and officers.			Operation subordinate Service.			Nominal master roll.		Fuel and lubricants.			Operation and maintenance, other than establishment.			Works expenditure financed from ordinary revenues.		Depreciation and reserve fund.		Tools and plant.	
		Gross.	Less recoveries.	Net.	Number employed.	Amount.	Number employed.	Amount.													
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)				
(IN LAKHS OF RUPEES.)																					
Mettur System—cont.																					
1950-51	..	42.74	44.69	1.07	10.15	4.98	5.17	1,083	7.40	398	0.41	..	15.06	0.13	13.49	—0.04	—1.95				
		0.37	0.39	0.009	0.09	0.044	0.045		0.06		0.02		0.13	0.0011	0.118		—0.04				
1951-52	..	57.75	53.79	1.31	10.47	—4.18	6.29	987	8.43	353	2.47	..	13.41	0.08	16.83	—0.08	3.96				
		0.427	0.397	0.010	0.077		0.046		0.062		0.018		0.136	0.0005	0.124		0.080				
1952-53	..	70.36	72.90	1.31	11.08	—2.97	8.11	1,141	7.80	518	3.53	..	33.51	0.08	19.06	—0.08	—2.54				
		0.62	0.85	0.02	0.13	—0.04	0.09		0.09		9.04		0.39		0.22		—0.03				
		40.53	43.07										3.98								
		0.47	0.50										0.04								
Papanasam System.																					
1948-49	..	14.71	11.71	0.26	4.06	0.79	3.29	301	2.43	341	0.69	..	3.51	0.04	1.42	—0.06	3.00				
		0.23	0.26	0.009	0.09	0.018	0.07		0.05		0.015		0.08	0.009	0.032		0.07				
1949-50	..	28.45	17.69	0.45	4.91	1.46	3.45	402	3.06	475	0.67	..	3.59	0.04	6.51	—0.08	7.76				
		0.51	0.36	0.009	0.10	0.03	0.07		0.06		0.013		0.07	0.008	0.13		0.16				
1950-51	..	17.93	19.28	0.51	5.97	2.11	3.86	533	4.19	544	0.89	..	2.84	0.04	7.07	—0.12	—1.85				
		0.29	0.31	0.003	0.10	0.03	0.06		0.06		0.014		0.045	0.0006	0.112		—0.03				

1951-52	..	27.95	31.78	0.65	7.04	—1.32	5.22	581	4.71	490	1.10	..	11.94	0.05	8.19	—0.08	—3.38
1952-53	..	37.51	37.09	0.58	7.62	—1.84	5.78	607	4.66	1,005	1.44	..	15.52	0.40	8.88	—0.16	0.42
		0.57	0.56										0.23	0.01	0.13		0.01
		0.54	0.52										13.83				
													0.20				
<i>Abstract for hydro areas.</i>																	
1948-49	..	85.96	85.96	2.20	19.84	5.35	14.49	2,137	14.12	3,375	5.36	..	14.57	0.33	23.98	0.41	8.02
1949-50	..	109.35	89.44	2.72	22.51	8.93	13.58	2,380	16.85	4,424	5.08	..	18.65	0.37	31.61	0.58	19.91
1950-51	..	98.33	102.92	3.12	25.30	11.23	14.07	2,562	19.26	4,488	4.91	..	26.37	0.32	35.39	—0.52	—4.59
1951-52	..	142.30	132.10	3.72	27.83	—10.13	17.70	2,571	21.25	4,358	5.26	..	42.74	0.24	41.56	—0.97	—10.20
1952-53	..	164.77	163.73	3.87	31.20	—7.82	23.38	2,793	21.44	2,585	7.06	..	0.115	0.0006	0.112	—0.027	—3.36
		0.67	0.58										0.820	0.59	45.79	—1.10	—0.01
		128.18	132.14										0.24		0.15		
		0.44	0.45										30.61				
													0.11				
<i>Madras System.</i>																	
1948-49	..	74.57	71.01	1.00	7.05	1.86	5.19	537	4.78	1,800	6.74	35.54	4.89	0.06	12.92	—0.11	3.56
1949-50	..	77.29	78.60	1.17	7.86	2.80	5.06	544	4.86	1,850	7.93	42.85	4.35	0.02	12.86	—0.30	0.056
1950-51	..	93.03	87.72	1.45	8.06	3.33	4.73	541	4.82	2,100	9.12	0.68	0.084	0.0003	0.19	—0.15	5.31
1951-52	..	113.10	108.07	1.75	9.27	—3.34	5.93	562	5.06	2,300	11.28	4.15	0.12	0.0007	0.19	—0.31	0.07
1952-53	..	147.45	132.21	1.93	10.64	—2.82	7.82	782	5.03	1,069	7.79	61.94	0.153	0.0002	0.274	—0.059	15.24
		1.55	1.39										23.16		24.59	—0.10	
		144.02	129.38										0.25		0.26		0.16
		1.52	1.36										20.38				
													0.22				

N.B.—The denominator gives the cost in annas per unit generated.
* Excludes the cost of power purchased.

STATEMENT SHOWING THE UNITS GENERATED, WORKING EXPENSES AND THE COST PER UNIT GENERATED UNDER EACH MAIN HEAD OF EXPENSES (1952-53)—cont.

Financial year.	(1)	(2) Units generated in millions.	(3) (From expenditure.	(4) Working expenses excluding suspense.	Establishment charge, allowances and recoveries.					Other items.									
					Provincial establishment and officers.			Operation subordinate service.		Nominal muster roll.		(13) Fuel and lubricant.	(14) Operation and maintenance expenses other than establishment.	(15) Works expenditure financed from ordinary revenue.	(16) Depreciation reserve fund and special reserve fund.	(17) Tools and plant.	(18) Suspense.		
					(5) Managing agency fees.	(6) Gross.	(7) Less office.	(8) Net.	(9) Number employed.	(10) Amount.	(11) Number employed.							(12) Amount.	
(IN LAKHS OF RUPEES.)																			
<i>Andhra Power System.</i>																			
1943-49 ..	..	29.37	26.28	20.41	0.29	3.43	1.33	2.10	438	2.33	150	0.75	14.70	0.22	-0.03	0.05	5.87		
1949-50 ..	..	33.41	1.30	1.10	0.016	0.18	0.11	0.11	0.12	0.12	0.04	0.30	0.01	0.01	0.0027	0.38			
1950-51 ..	..	33.41	29.94	25.36	0.36	3.93	1.93	2.00	497	3.32	136	0.93	15.61	1.33	0.18	-0.17	4.58		
1951-52 ..	..	33.41	1.43	1.21	0.017	0.19	0.10	0.10	0.16	0.16	0.047	0.75	0.064	0.064	0.069	0.084	0.22		
1952-53 ..	..	33.41	35.00	32.30	0.42	5.32	3.12	3.20	673	4.13	260	1.25	16.59	3.92	0.12	3.32	2.70		
1953-54 ..	..	33.41	1.41	1.30	0.017	0.21	0.09	0.09	0.16	0.16	0.050	0.67	0.16	0.16	0.005	0.13	0.11		
1954-55 ..	..	50.88	73.50	44.82	0.54	7.50	-4.03	3.47	815	6.35	277	1.66	22.38	6.17	..	3.45	23.63		
1955-56 ..	..	50.88	2.311	1.409	0.017	0.236	0.109	0.109	0.200	0.200	0.052	0.704	0.194	0.194	..	0.108	0.302		
1956-57 ..	..	68.609	73.94	58.66	0.72	11.4	-4.15	7.01	609	6.09	737	1.57	25.31	10.01	0.06	7.50	14.28		
1957-58 ..	..	68.609	1.70	1.37	0.02	0.26	-0.10	0.16	1,305	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1958-59 ..	..	68.609	72.90	53.62	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1959-60 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1960-61 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1961-62 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1962-63 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1963-64 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1964-65 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1965-66 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1966-67 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1967-68 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1968-69 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1969-70 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1970-71 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1971-72 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1972-73 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1973-74 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1974-75 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1975-76 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1976-77 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1977-78 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1978-79 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1979-80 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1980-81 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1981-82 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1982-83 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1983-84 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1984-85 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1985-86 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1986-87 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1987-88 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1988-89 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1989-90 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1990-91 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1991-92 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1992-93 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1993-94 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1994-95 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1995-96 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1996-97 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1997-98 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1998-99 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
1999-00 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2000-01 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2001-02 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2002-03 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2003-04 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2004-05 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2005-06 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2006-07 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2007-08 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2008-09 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2009-10 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2010-11 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2011-12 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2012-13 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2013-14 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2014-15 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2015-16 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2016-17 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2017-18 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2018-19 ..	..	68.609	1.70	1.37	0.02	0.26	0.19	0.19	0.14	0.14	0.04	0.59	0.24	0.24	0.06	0.17	0.33		
2019-20 ..	..																		

N.B.—The denominator given the cost in annas per unit generated.

* Excludes the cost of power purchased.

XLI. RECEIPTS FROM ELECTRICITY SCHEMES—WORKING EXPENSES—STATEMENT SHOWING GROSS REVENUE, WORKING EXPENSES AND THE PROPORTION OF EXPENSES UNDER EACH MAIN HEAD TO GROSS REVENUE.

HYDRO AREAS.

Financial year.	Expenditure under each main head and its proportion to revenue.																											
	Establishment charges, allowances and recoveries.													Other items.														
	Provincial establishment and officers.					Operation Subordinate service.					Nominal muster roll.			Fuel and lubricants.					Depreciation and maintenance expenses other than depreciation.					Works expenditure financed from ordinary revenue.				
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)										
	Gross revenue.	Gross expenditure.	Working expenses excluding suspense.	Managing agency fees.			Less recoveries.	Net.	Number employed.	Amount.	Number employed.	Amount.		Depreciation and maintenance expenses other than depreciation.	Works expenditure financed from ordinary revenue.	Depreciation reserve fund and special reserve fund.	Tools and plant.	Suspense.										
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)										
<i>Pykara System.</i>																												
1948-49	..	72.83	34.25	32.34	1.02	7.72	1.93	5.74	2,251	1.84	807	5.79	..	5.22	0.05	12.69	— 0.01	1.91										
			47.00	44.40	1.40	10.60	..	7.88	..	2.53	..	7.05	..	7.17	0.07	17.42	per cent.	2.60										
1949-50	..	86.37	41.51	37.11	1.35	8.63	2.83	5.80	3,241	1.58	871	7.13	..	7.39	0.16	13.75	..	4.40										
			48.06	42.97	1.55	9.99	..	6.60	..	1.76	..	8.26	..	8.56	0.19	15.92	per cent.	5.09										
1950-51	..	92.61	37.66	33.95	1.54	9.18	4.14	5.04	3,346	1.61	941	7.67	..	8.47	0.15	14.83	— 0.36	1.29										
			40.23	41.60	1.64	9.81	..	5.38	..	1.72	..	8.19	..	9.05	0.16	15.84	per cent.	..										
1951-52	..	115.31	56.60	46.53	1.76	10.32	— 4.13	6.19	3,285	1.69	1,003	8.11	..	12.39	0.11	16.54	— 0.28	10.07										
			49.09	40.35	1.53	9.95	..	5.37	..	1.47	..	7.03	..	10.74	0.10	14.34	per cent.	8.73										
1952-53	..	113.26	56.90	53.74	1.48	12.50	3.01	9.49	1,045	8.79	1,012	2.09	..	13.87	0.11	17.85	— 0.14	1.84										
			48.11	49.67	1.25	10.57	2.55	3.02	..	7.60	..	1.77	..	15.96	0.09	15.09	— 0.11	1.56										
			per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.										

(IN LAKHS OF RUPEES.)

ELECTRICITY DEPARTMENT FOR 1952-53

Financial year.	(1)	(2)	(3)	(4)	Expenditure under each main head and its proportion to revenue.										(16)	(17)	(18)	
					Establishment charges, allowances and recoveries.													
		Gross revenue.	Gross expenditure.	Working expenses excluding suspense.	Managing agency fees.	Gross.	Less recoveries.	Net.	Number employed.	Amount.	Number employed.	Amount.	Fuel and lubricants.	(Operation and maintenance expenses other than depreciation).	Work expenditure financed from ordinary revenue.	Depreciation reserve fund and special reserve fund.	Tools and plant.	Suspense.
		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<i>Pykara System.</i>																		
1948-49	..	63.72	35.02	31.91	0.99	8.04	2.53	5.46	783	3.33	1,029	5.90	..	5.94	0.24	9.87	0.47	3.11
			54.95	50.07	1.25	12.62	..	8.57	..	5.22	..	9.26	..	9.16	0.23	5.49	0.74	4.88
1949-50	..	74.16	42.39	34.64	0.92	8.97	4.64	4.33	703	2.88	1,057	6.66	..	7.67	0.17	11.35	0.66	7.76
			57.13	46.72	1.25	12.10	..	5.94	..	3.89	..	8.98	..	10.35	0.23	15.31	0.89	10.46
1950-51	..	85.98	43.74	44.06	1.97	10.15	4.98	5.17	598	2.41	1,068	7.40	..	15.06	0.13	13.49	— 0.04	1.96
			49.71	51.93	1.25	11.81	..	6.01	..	2.80	..	8.61	..	17.51	0.15	15.69	..	..
1951-52	..	101.53	57.75	53.79	1.31	10.47	— 4.18	6.29	583	2.47	987	8.43	..	18.41	0.08	16.83	— 0.03	3.96
			56.88	52.98	1.29	10.31	..	6.20	..	2.43	..	8.30	..	18.13	0.08	16.58	..	3.90
1952-53	..	103.55	70.36	72.90	1.131	11.08	— 2.97	8.11	1,141	7.80	518	3.53	..	33.81	0.08	19.06	— 0.80	2.54
			67.95	70.40	1.26	10.70	— 2.87	7.83	..	7.53	..	3.41	..	32.45	0.08	18.41	— 0.97	2.46
			per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.
<i>Papanasam System.</i>																		
1948-49	..	29.54	14.71	11.71	0.38	4.08	0.79	3.29	341	0.69	301	2.43	..	3.51	0.04	1.42	— 0.05	3.00
			49.80	39.64	1.29	13.81	..	11.14	..	2.34	..	8.22	..	11.88	0.13	4.31	..	10.16
1949-50	..	36.14	23.45	17.69	0.45	4.91	1.46	3.45	475	0.67	402	3.06	..	3.59	0.04	6.51	— 0.08	7.76
			70.42	48.95	1.27	13.31	..	9.55	..	1.83	..	8.47*	..	9.93	0.11	13.01	..	21.47
1950-51	..	41.00	17.98	16.28	0.51	5.97	2.11	3.86	544	0.80	533	4.19	..	2.84	0.04	7.07	— 0.12	1.35
			45.78	47.02	1.24	14.61	..	9.41	..	2.17	..	10.22*	..	6.93	0.10	17.24	..	..
1951-52	..	53.96	27.95	24.78	0.65	7.04	— 1.82	5.22	490	1.10	581	4.71	..	11.94	0.05	8.19	— 0.08	3.88
			51.90	58.90	1.20	15.05	..	9.67	..	2.04	..	8.73	..	22.13	0.09	15.18	..	..
1952-53	..	54.53	37.51	37.09	0.58	7.62	— 1.84	5.78	607	4.65	1,005	1.44	..	15.52	0.40	9.88	— 0.16	0.42
			68.90	68.08	1.06	13.98	3.33	10.60	..	8.63	..	2.64	..	28.46	0.75	16.29	— 0.30	0.77
			per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.	per cent.

* The denominator gives the percentage of expenditure to Gross Revenue. Includes Material Thermal Scheme cost.

XII. RECEIPTS FROM ELECTRICITY SCHEMES—WORKING EXPENSES—STATEMENT SHOWING GROSS REVENUE, WORKING EXPENSES AND THE PROPORTION OF EXPENSES UNDER EACH MAIN HEAD TO GROSS REVENUE—cont.

HYDRO AREAS—cont.

Financial year.	Expenditure under each main head and its proportion to revenue.																						
	Establishment charges, Allowances and recoveries.												Other items.										
	Provincial establishment and officers.			Operation Subordinate service.			Nominal Master-roll.			Fuel and lubricants.			Operation and maintenance expenses other than establishment.			Works expenditure financed from ordinary revenue.			Depreciation and special reserve fund.			Tools and plant.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)						
		Gross revenue.	Gross expenditure.	Working expenses excluding war-pense.	Agency	Gross.	Loss recovery.	Net.	Number employed.	Amount.	Number employed.	Amount.											
1948-49	..	166.10	33.98	50.56 per cent.	85.96 51.75 per cent.	2.20 1.32 per cent.	19.84 11.94 per cent.	5.35 3.22 per cent.	14.49 8.72 per cent.	3,375 3.53 per cent.	5.86 3.53 per cent.	2,137 8.50 per cent.	14.12	14.57 8.77 per cent.	0.33 0.20 per cent.	23.98 14.44 per cent.	0.41 0.25 per cent.	8.02 4.38 per cent.					
1949-50	..	196.65	100.35	55.61 per cent.	89.44 45.48 per cent.	2.72 1.38 per cent.	22.51 11.40 per cent.	8.93 6.91 per cent.	13.58 2.50 per cent.	4,424 2.50 per cent.	5.08 2.50 per cent.	2,380 8.58 per cent.	16.85	18.65 9.48 per cent.	0.37 0.18 per cent.	31.61 16.07 per cent.	0.58 0.20 per cent.	10.91 10.12 per cent.					
1950-51	..	220.59	96.38	44.58 per cent.	108.92 48.96 per cent.	3.12 1.41 per cent.	25.30 11.47 per cent.	11.23 6.38 per cent.	14.07 2.23 per cent.	4,488 2.23 per cent.	4.91 2.23 per cent.	2,562 8.73 per cent.	19.26	20.37 11.96 per cent.	0.32 0.15 per cent.	35.39 16.04 per cent.	0.52	4.59					
1951-52	..	270.96	142.80	52.55 per cent.	137.73 50.86 per cent.	27.83 10.28 per cent.	10.18 2.83 per cent.	17.70 6.54 per cent.	4,858 1.94 per cent.	5,262 1.94 per cent.	2,571 7.85 per cent.	21.25	..	42.74 15.78 per cent.	0.24 0.09 per cent.	41.56 15.35 per cent.	0.37	10.20 3.77 per cent.					
1952-53	..	270.23	164.77	60.82 per cent.	189.73 69.83 per cent.	31.20 11.29 per cent.	7.82 2.83 per cent.	23.38 8.46 per cent.	2,793 2.78 per cent.	31,44 2.78 per cent.	2,825 7.06 per cent.	7.06	..	68.20 24.68 per cent.	0.59 0.21 per cent.	45.79 16.57 per cent.	1.10 0.39 per cent.	9.98 1.43 per cent.					

ADMINISTRATION REPORT OF THE

ELECTRICITY DEPARTMENT FOR 1952-53

THERMAL AREAS.

Madras Electricity System.

1948-49 ..	30.10	74.57	71.01	1.09	7.05	1.86	5.19	537	4.78	1,800	6.74	35.54	4.89	0.06	12.92	0.11	3.56
		91.85 per cent.	85.66 per cent.	1.25 per cent.	8.80 per cent.	—	6.45 per cent.	5.97 per cent.	5.97 per cent.	—	8.41 per cent.	44.37 per cent.	6.10 per cent.	0.07 per cent.	16.13 per cent.	—	4.44 per cent.
1949-50 ..	93.92	77.29	78.60	1.17	7.86	2.80	5.06	544	4.86	1,850	7.93	42.65	4.36	0.02	12.86	0.30	1.31
		82.19 per cent.	83.69 per cent.	1.25 per cent.	8.37 per cent.	—	5.39 per cent.	5.17 per cent.	5.17 per cent.	—	8.44 per cent.	45.41 per cent.	4.83 per cent.	0.02 per cent.	13.69 per cent.	—	—
1950-51 ..	116.13	95.03	87.72	1.45	8.06	2.33	4.73	541	4.82	2,100	9.71	44.38	9.32	0.05	18.41	0.15	5.31
		80.11 per cent.	75.54 per cent.	1.25 per cent.	6.94 per cent.	—	4.07 per cent.	4.15 per cent.	4.15 per cent.	—	8.36 per cent.	38.22 per cent.	8.01 per cent.	0.04 per cent.	11.55 per cent.	—	4.57 per cent.
1951-52 ..	139.59	113.10	108.07	1.76	9.27	3.34	5.93	562	5.06	2,300	11.23	48.15	12.96	0.02	23.28	0.31	5.03
		81.02 per cent.	77.42 per cent.	1.25 per cent.	6.84 per cent.	—	4.25 per cent.	3.82 per cent.	3.82 per cent.	—	8.08 per cent.	34.49 per cent.	9.29 per cent.	0.01 per cent.	16.04 per cent.	—	3.60 per cent.
1952-53 ..	155.12	147.45	132.21	1.98	10.64	2.82	7.82	782	5.08	1,089	7.79	61.94	23.16	—	24.59	0.10	15.24
		95.06 per cent.	85.23 per cent.	1.24 per cent.	6.86 per cent.	—	5.04 per cent.	3.27 per cent.	3.27 per cent.	—	5.02 per cent.	39.93 per cent.	14.93 per cent.	—	15.85 per cent.	0.05 per cent.	9.82 per cent.

Andhra Power System.

1948-49 ..	23.75	26.28	20.41	0.29	3.43	1.28	2.10	438	2.33	150	0.75	14.70	0.22	0.03	—	0.05	5.37
		110.65 per cent.	85.94 per cent.	1.22 per cent.	14.40 per cent.	—	8.84 per cent.	9.81 per cent.	9.81 per cent.	—	3.16 per cent.	61.89 per cent.	0.93 per cent.	—	—	0.21 per cent.	24.72 per cent.
1949-50 ..	28.02	29.94	25.28	0.26	3.93	1.93	2.00	497	3.32	196	0.98	15.61	1.33	0.18	1.75	0.17	4.58
		106.85 per cent.	90.51 per cent.	1.21 per cent.	14.00 per cent.	—	7.21 per cent.	11.85 per cent.	11.85 per cent.	—	3.50 per cent.	55.71 per cent.	4.75 per cent.	0.64 per cent.	6.25 per cent.	—	16.34 per cent.
1950-51 ..	23.60	25.00	22.30	0.42	5.32	3.12	2.20	670	4.13	250	1.25	16.59	3.92	0.12	3.32	0.35	2.70
		104.16 per cent.	90.13 per cent.	1.25 per cent.	15.83 per cent.	—	6.55 per cent.	12.29 per cent.	12.29 per cent.	—	3.72 per cent.	49.27 per cent.	11.87 per cent.	0.43 per cent.	9.88 per cent.	1.04 per cent.	8.04 per cent.
1951-52 ..	43.10	73.50	44.82	0.54	7.50	4.03	3.47	815	6.25	277	1.66	22.38	6.17	—	3.45	0.80	28.68
		170.53 per cent.	103.99 per cent.	1.25 per cent.	17.40 per cent.	—	8.05 per cent.	14.73 per cent.	14.73 per cent.	—	3.85 per cent.	51.92 per cent.	14.32 per cent.	—	8.00 per cent.	1.86 per cent.	66.54 per cent.
1952-53 ..	57.64	72.94	58.66	0.72	11.16	4.15	7.01	1,205	6.09	737	1.57	25.31	10.01	0.06	7.50	0.39	14.28
		126.54 per cent.	101.77 per cent.	1.25 per cent.	19.36 per cent.	—	12.16 per cent.	10.56 per cent.	10.56 per cent.	—	2.72 per cent.	43.91 per cent.	17.37 per cent.	0.10 per cent.	13.01 per cent.	0.69 per cent.	24.77 per cent.

XII. RECEIPTS FROM ELECTRICITY SCHEMES—WORKING EXPENSES—STATEMENT SHOWING GROSS REVENUE, WORKING EXPENSES AND THE PROPORTION OF EXPENSES UNDER EACH MAIN HEAD TO GROSS REVENUE—cont.

THERMAL AREAS—cont.

Financial year.	Expenditure under each main head and its proportion to revenue.																
	Establishment charges, Allowances and recoveries.												Other items.				
	Agency			Provisional establishment and officers.			Operation Subordinate service.			Nominal Muster roll.		Operation and maintenance other than establishment.	Works expenditure financed from ordinary revenue.	Depreciation fund and special reserve fund.	Tools and plant.	Suspense.	
	Managing fees.	(5)	(6)	Gross.	(7)	Net.	Number employed.	Amount.	Number employed.	Amount.	(12)						(13)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
(IN LAKHS OF RUPEES.)																	
Royalaseema Power System.																	
1948-49 ..	1.31	1.26	1.26	0.01	0.19	0.17	0.02	30	0.18	10	0.02	0.71	0.29	..	..	0.03	..
		96.18 per cent.	96.18 per cent.	0.76 per cent.	14.50 per cent.	1.53 per cent.	1.53 per cent.	13.74 per cent.	13.74 per cent.	..	1.53 per cent.	54.20 per cent.	22.13 per cent.	..	..	..	..
1949-50 ..	2.84	3.61	3.61	0.02	0.81	0.18	0.68	90	0.56	25	0.09	1.52	0.64	..	..	0.03	..
		127.11 per cent.	127.11 per cent.	0.70 per cent.	28.52 per cent.	24.65 per cent.	24.65 per cent.	10.72 per cent.	10.72 per cent.	..	3.17 per cent.	53.52 per cent.	22.53 per cent.	..	..	2.82 per cent.	..
1950-51 ..	7.27	6.77	6.77	0.10	1.47	0.69	0.78	150	0.92	75	0.41	1.90	2.33	..	..	0.15	..
		93.12 per cent.	93.12 per cent.	1.38 per cent.	20.22 per cent.	10.73 per cent.	10.73 per cent.	12.65 per cent.	12.65 per cent.	..	5.64 per cent.	26.13 per cent.	31.91 per cent.	..	..	2.06 per cent.	..
1951-52 ..	17.71	18.93	18.93	0.10	3.32	0.73	2.59	461	3.00	160	1.12	5.10	5.87	..	..	0.85	..
		108.80 per cent.	108.80 per cent.	0.56 per cent.	18.75 per cent.	14.62 per cent.	14.62 per cent.	16.94 per cent.	16.94 per cent.	..	6.32 per cent.	28.80 per cent.	33.14 per cent.	..	..	4.80 per cent.	..
1952-53 ..	27.47	26.94	26.94	0.34	5.80	3.08	3.77	654	3.39	744	2.41	9.72	6.14	..	..	0.70	..
		97.36 per cent.	97.36 per cent.	1.23 per cent.	20.96 per cent.	13.82 per cent.	13.82 per cent.	12.25 per cent.	12.25 per cent.	..	8.71 per cent.	35.13 per cent.	22.19 per cent.	..	..	2.53 per cent.	..

Abstract for Thermal Areas.

1948-49 ..	106.16	102.11	95.68	1.30	10.67	3.36	7.31	1,006	7.29	1,960	7.51	50.96	5.40	0.03	12.92	0.03	9.48
	97.10 per cent.	97.10 per cent.	95.68 per cent.	1.24 per cent.	10.15 per cent.	3.20 per cent.	6.95 per cent.	..	7.14 per cent.	..	7.14 per cent.	48.45 per cent.	5.13 per cent.	0.029 per cent.	12.29 per cent.	0.029 per cent.	8.97 per cent.
1949-50 ..	124.78	110.84	107.57	1.55	13.60	4.86	7.74	1,131	8.74	2,071	9.00	59.78	6.32	0.20	14.61	0.39	3.37
	88.33 per cent.	88.33 per cent.	86.21 per cent.	1.24 per cent.	10.10 per cent.	3.89 per cent.	6.20 per cent.	..	7.00 per cent.	..	7.21 per cent.	47.91 per cent.	5.06 per cent.	0.16 per cent.	11.71 per cent.	0.35 per cent.	2.62 per cent.
1950-51 ..	157.00	134.99	126.79	1.97	14.85	7.14	7.71	1,370	9.87	2,425	11.37	62.87	15.56	0.17	16.92	0.35	8.91
	85.86 per cent.	85.86 per cent.	80.76 per cent.	1.26 per cent.	9.46 per cent.	4.55 per cent.	4.91 per cent.	..	6.29 per cent.	..	7.24 per cent.	40.00 per cent.	9.91 per cent.	0.11 per cent.	10.78 per cent.	0.22 per cent.	5.10 per cent.
1951-52 ..	200.40	205.53	171.82	2.39	20.09	8.10	11.99	1,838	14.41	2,787	14.06	75.63	25.00	0.02	26.98	1.34	33.71
	102.56 per cent.	102.56 per cent.	85.74 per cent.	1.19 per cent.	10.02 per cent.	..	5.98 per cent.	..	7.19 per cent.	..	7.02 per cent.	37.73 per cent.	12.48 per cent.	0.01 per cent.	13.46 per cent.	0.67 per cent.	16.82 per cent.
1952-53 ..	240.43	247.33	217.81	2.99	27.60	9.00	15.60	2,741	14.56	2,550	11.77	96.97	39.31	0.06	32.56	0.99	29.52
	102.87 per cent.	102.87 per cent.	90.59 per cent.	1.24 per cent.	11.43 per cent.	3.74 per cent.	7.74 per cent.	..	6.08 per cent.	..	4.90 per cent.	40.33 per cent.	16.35 per cent.	0.02 per cent.	13.54 per cent.	0.41 per cent.	12.28 per cent.

Departmental Total.

1951-52 ..	471.29	347.83	303.92	6.11	47.92	18.23	29.69	4,409	35.66	7,095	19.32	..	143.37	0.26	68.54	0.97	43.91
	73.82 per cent.	73.82 per cent.	64.50 per cent.	1.30 per cent.	10.17 per cent.	..	6.30 per cent.	..	7.57 per cent.	..	4.10 per cent.	..	30.42 per cent.	0.06 per cent.	14.55 per cent.	0.21 per cent.	9.32 per cent.
1952-53 ..	516.76	412.10	336.54	6.96	59.80	16.82	41.98	5,534	36.00	5,085	18.83	96.97	107.51	0.65	78.85	0.11	25.56
	79.76 per cent.	79.76 per cent.	74.99 per cent.	1.25 per cent.	11.38 per cent.	3.26 per cent.	8.12 per cent.	..	6.97 per cent.	..	3.94 per cent.	18.76 per cent.	20.80 per cent.	0.12 per cent.	15.16 per cent.	0.02 per cent.	4.95 per cent.

N.B.—The denominator gives the percentage of expenditure to gross revenue.

HYDRO AREAS.

System.	O & M: O.S.S. and Establishment expenses as a percentage on revenue per unit sold.													
	Units sold to consumers (lakhs of units).	Revenue per unit sold.	O. & M.			O.S.S.			Establishment:			Cost per unit sold including interest.	Revenue realized per unit deducting interest.	
			Expenses in lakhs of rupees.	Cost, anna per unit sold.	Percentage of cost to Revenue per unit sold.	Expenses in lakhs of rupees.	Cost, anna per unit sold.	Percentage of cost to Revenue per unit sold.	Expenses in lakhs of rupees.	Cost, anna per unit sold.	Percentage of cost to Revenue per unit sold.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
1948-49—														
Pyhara ..	1868.88	0.54	7.06	0.060	11.1	5.70	0.059	9.3	8.74	0.075	13.9	..	..	
Mettur ..	1397.78	0.68	9.17	0.105	15.4	5.90	0.087	9.9	8.84	0.101	16.3	..	..	
Papanasani ..	767.17	0.56	4.20	0.087	15.5	2.43	0.051	9.1	4.46	0.063	16.6	..	..	
1949-50—														
Pyhara ..	1666.74	0.73	8.92	0.086	11.3	7.13	0.083	9.3	9.98	0.095	13.9	..	..	
Mettur ..	1551.10	0.68	10.55	0.109	14.6	6.66	0.089	10.1	9.89	0.102	16.0	..	..	
Papanasani ..	821.99	0.68	4.26	0.083	12.2	3.06	0.060	8.8	5.36	0.143	21.0	..	..	
1950-51—														
Pyhara ..	1757.79	0.75	10.08	0.082	12.3	7.47	0.070	9.3	10.73	0.088	13.1	..	..	
Mettur ..	1820.75	0.67	17.47	0.154	23.3	7.40	0.085	9.7	11.22	0.099	14.8	..	..	
Papanasani ..	832.41	0.73	8.73	0.072	9.9	4.19	0.081	11.1	6.48	0.125	17.1	..	..	
1951-52—														
Pyhara ..	2406.14	0.72	14.08	0.09	12.50	8.11	0.05	6.94	12.09	0.08	11.11	0.44	0.58	
Mettur ..	2248.52	0.64	20.88	0.15	23.44	8.43	0.06	9.38	11.77	0.09	14.06	0.50	0.52	
Papanasani ..	1256.74	0.65	13.04	0.17	26.15	4.71	0.06	9.23	7.70	0.10	15.38	0.58	0.52	
1952-53—														
Pyhara ..	3012.66	0.57	20.96	0.11	19.30	8.99	0.05	8.77	13.98	0.07	12.28	0.44	0.44	
Mettur ..	2154.60	0.70	37.34	0.23	40.00	7.80	0.06	8.57	12.39	0.09	12.86	0.68	0.56	
Papanasani ..	1080.99	0.74	16.96	0.25	33.78	4.65	0.07	9.46	8.20	0.12	16.32	0.32	0.47	

Net—O. & M. = O. & M. and N.M.R.

O.S.S. = O.S.S. staff only.

Establishment = Gross Establishment plus Managing agency fees.

THERMAL AREAS.

1948-49—													
Madras ..	885.23	1.51	11.88	0.225	14.9	4.78	0.093	6.2	8.05	0.156	10.3	..	..
Andhra ..	270.98	1.85	6.97	0.057	4.2	2.33	0.130	9.5	3.72	0.220	16.3	..	..
Rayalaseema ..	5.76	8.39	0.31	0.863	25.5	0.18	0.501	14.8	0.20	0.557	16.4	..	..
1949-50—													
Madras ..	864.91	1.68	12.22	0.230	13.7	4.86	0.091	5.4	9.03	0.169	10.1	..	..
Andhra ..	299.13	1.47	8.31	0.124	8.4	3.32	0.177	12.0	4.29	0.239	15.6	..	..
Rayalaseema ..	19.19	3.27	0.73	0.886	27.1	0.56	0.680	20.8	0.83	1.007	30.8	..	..
1950-51—													
Madras ..	940.19	1.81	19.03	0.324	17.9	4.82	0.082	4.5	9.51	0.162	8.95	..	..
Andhra ..	368.08	1.45	5.17	0.258	16.4	4.13	0.183	12.6	5.74	0.253	17.4	..	..
Rayalaseema ..	69.48	1.91	2.75	0.629	32.9	0.93	0.212	11.1	1.57	0.862	18.9	..	..
1951-52—													
Madras ..	1203.87	1.77	72.89	0.96	54.24	5.06	0.07	4.00	11.01	0.14	7.91	1.62	1.59
Andhra ..	447.55	1.05	30.30	1.08	102.86	6.35	0.23	21.90	8.04	0.29	27.62	1.85	0.80
Rayalaseema ..	150.16	1.31	13.09	1.29	98.47	3.00	0.33	24.43	3.73	0.33	25.20	2.65	0.68
1952-53—													
Madras ..	1369.67	1.73	30.95	1.09	63.01	5.08	0.06	3.47	12.57	0.15	8.67	1.74	1.52
Andhra ..	527.79	1.65	11.58	0.84	20.31	6.09	0.19	10.91	11.88	0.35	21.21	2.05	1.35
Rayalaseema ..	200.55	2.13	8.55	0.68	31.92	3.39	0.27	12.68	6.14	0.49	23.05	2.79	1.49

NOTE.—O. & M. = O. & M. and N.M.R.

O.S.S. = O.S.S. staff only.

Establishment: Gross establishment plus managing agency fees.

Working expenses.	LAKHS.	Gross receipts.	LAKHS.
Operation and maintenance expenses on generation, transmission and distribution	260	Revenue by sale of power	483
Administration and general charges	42	Miscellaneous revenue	34
Managing agency fees	7		
Contribution to reserve funds	78		
Excess receipts over expenditure	130		
Total	517	Total	517

The interest rates to be charged as ordered by Government from year to year were as follows:—

1933-34	5.38	1942-43	4.5
1934-35	5.12	1943-44	4.25
1935-36	4.94	1944-45	4.25
1936-37	4.5	1945-46	4.25
1937-38	4.35	1946-47	4.0
1938-39	4.25	1947-48	4.0
1939-40	4.25	1948-49	4.0
1940-41	4.75	1949-50	4.0
1941-42	4.75	1950-51	4.25
		1951-52	4.75

The interest chargeable to Operation during the year at 4.75 per cent comes to Rs. 107 lakhs.

The interest chargeable to Construction at 4.75 per cent comes to Rs. 81 lakhs.

The interest accumulations up to end of 1951-52 amounted to Rs. 768 lakhs in the department.

The details for investment from the special and depreciation reserve contributions are given in Appendix 'M'.

A comparative statement of the elements of Operation and maintenance expenses of the department in relation to gross revenue faces page 10.

Details of the staff employed under the various categories is given in Appendix 'X'.

The accounts of the Vijayavada, Narasaraopet, West Godavari, Kakinada, Rajahmundry, Ongole schemes were integrated into one combined Capital and Revenue account. Proposals for similar integration of the Viskhapatnam, Salur, Parvathipur and Srikakulam undertakings into one Capital and Revenue account were under consideration of Government.

Financial completion report.—The financial completion report of Papanasam I stage was prepared in the prescribed form and sent to Accountant-General for check for incorporation in the printed report.

Financial stock-taking.—The first report for Moyar and Machkund projects was prepared and sent to Government.

Voluntary loan contribution.—Due to limitation of funds position a scheme for execution of extension works on voluntary loan contribution by the parties was got approved by Government. This has a small response in Andhra and Madras systems.

Consumers Bills.—In addition to Holerith machine in Madras System "Power Samas" was installed at Pykara and 10,000 bills in Nilgiris area have been mechanised.

Accounts.—A system of self-balancing ledgers was introduced at Pykara and Madras systems to expedite preparation and consolidation of monthly accounts and this is working satisfactorily.

Audit.—The monthly accounts of the construction circles and operating systems were reviewed on the due dates and the audit notes of the Accountant-General disclosed mainly items of objections under (1) excess over estimates and (2) want of stamped acknowledgments, etc. Systematic action has been taken to clear these items by introduction of special progress report.

The periodical inspection and test audit of the accounts were carried out by the Accountant-General as follows:—

- (1) Pykara, August 1952.
- (2) Mettur, August 1952.
- (3) Papanasam, August 1952.
- (4) Madras, December 1952.
- (5) Andhra Power System, November 1952.
- (6) General Construction Circle, February 1952 and July 1952.
- (7) Moyar Scheme, March 1952 and September 1952.
- (8) Transmission Line Construction (North), February 1952 and September 1952.

Residential audit is in force in Machkund circle.

Stores.—There were 90 stores (10 central and 80 sub-stores) with materials worth Rs. 620 lakhs. All the stores were verified by independent stock verifiers during the year. A statement showing the reserve limit for each of the systems and actuals (March preliminary) is given in the statement below:—

Name of system or circle.	Number of stores.		Reserve limit.	Actuals
	Central.	Sub-stores.		
(1)	(2)	(3)	(4)	(5)
			RUPEES IN LAKHS.	RUPEES IN LAKHS.
1 Pykara Electricity System	1	11	70	80
2 Mettur Electricity System	1	10	83	118
3 Papanasam Electricity System	1	13	53	90
4 Madras Electricity System (Generation)	1	1	20	119
5 Madras Electricity System (Distribution)	1	10	65	
6 Andhra Power System	1	7	55	158
7 Rayalaseema Power System	1	13	35	
8 Moyar Hydro-Electric Scheme	1	2	18	14
9 Machkund Hydro-Electric Scheme	1	4	15	21
10 General Construction Circle	1	4	11	10
11 Transmission Line Construction (North)	..	5	11	10
	10	80	436	620

Action is on hand to obtain sanction for the revised reserve limit based on actuals.

The balance sheet showing the commercial operation of the Department for 1951-52 is appended to the Report as Appendix 'J'.

A statement indicating how far work is kept up to schedule (the percentage of work to sanctioned appropriation) is given in Appendix 'N'.

SECTION II—DETAILED REPORT.

CONSTRUCTION BRANCH.

18. *General.*—The Construction branch, with three circles, viz., Machkund, Moyar and General construction circle, under the control of the Chief Construction Engineer (Electricity) and two circles, viz., Transmission line construction (North) and Superintending Engineer (Generation), Madras, under the control of the Chief Operation Engineer (North) continued to be in charge of all major construction works.

Capital expenditure on all constructional activities during the year amounted to Rs. 3.97 crores.

The following were the salient features in the activities of this branch:—

(i) The three 12,000 KW generating units and two of the three 15,000 KVA step-up power transformers at the Moyar power-house were commissioned.

(ii) The construction of the additional cooling water pond and foundation for 10,000 KW set were completed in the Madurai thermal station and erection of the generating set was in advanced progress.

(iii) The work on the flume tunnel and pressure tunnel of the Machkund hydro-electric scheme was completed.

(iv) The sections of the 132 KV line from Visakhapatnam to Peddapuram (87 miles) and Peddapuram to Vijayavada (108 miles) under the Machkund scheme have been completed except for minor works.

(v) At 'B' power station of the Basin Bridge Power-House two boilers of 80,000 lb./hour each were commissioned one in May and the other in November 1952.

(vi) The first 15 MW turbo-generator at the 'B' station was put on commercial load on 14th March 1953 but it was taken out of commission by the suppliers due to failure of the turbine.

(vii) The following transmission lines were completed:—

(a) Papanasam-Tirunelveli-Kayattar 66 KV line.

(b) Madurai-Sivaganga 66 KV line.

(c) Tirumangalam-Rajapalayam-Tenkasi 66 KV line.

19. *New schemes.*—The Coimbatore-Madukarai-Palghat-Shoranur 110 KV extensions estimated at Rs. 77.06 lakhs initially rising to Rs. 79.8 lakhs in ten years was the only major scheme sanctioned for the year.

20. *Schemes in progress.*—The following major construction works were in progress:—

	Initial estimated cost.
RS. IN LAKHS.	
1 The Machkund Hydro-Electric Scheme including transmission lines and sub-stations	1,282.87
2 The Moyar Hydro-Electric Scheme	364.20
3 The Pykara Plant Extensions III Stage	326.35
4 The Madurai Thermal Scheme	131.60
5 The Madras Power Station Extensions	265.80
6 The Tungabhadra Hydro-Electric Scheme	733.01
7 The Vijayavada-Rajahmundry-Samalkot Extensions	157.75
8 The Visakhapatnam Power-House Extensions	27.00
9 The Nellore Thermal Scheme	59.71
10 The Madanapalle Thermal Scheme	9.30
11 The Madras Mettur Inter-connexion Scheme	123.94
12 The Kancheepuram-Chingleput-Arkonam Extensions	16.70
13 The Madurai-Thirumangalam-Rajapalayam-Tenkasi 66 KV. Extensions	55.10
14 The Madurai-Sivaganga 66 KV. Extensions	22.82
15 The Papanasam-Tirunelveli-Kayattar 66 KV. Extensions	28.15
16 The Erode-Salem 66/110 KV. Extensions	24.86
17 The Erode-Tiruchirappalli-Dalmiapuram Extensions	39.80
18 The Pykara-Madurai-Coimbatore 110 KV. Extensions	99.00
19 Extension of Power to South Kanara from the Jog Hydro-Electric Scheme of Mysore Government	70.30
20 Pollachi-Negamam 66 KV. Line	16.36

(1) (a) *The Machkund Hydro-Electric Scheme.*—Work on flume tunnel, pressure tunnel and temporary camp buildings was completed. Construction of permanent camp buildings is nearing completion. Bridges in Lamptaput-Machkund headworks road, grading of penstock slopes and sub-structures for anchors 2, 3 and 4, sub-structures for valve house, and sub-structures for piers between anchors 4 and 1 were completed. A part of the haulage track on the penstock slope was put into service. Excavation at power house site and at tail race and levelling of transformer yard were in progress. Most of the generating plant and equipment as well as a part of the penstock pipes received were transported to site. Excavation for Jalaput dam, construction of diversion dam, lining of flume channel, and construction of tunnel pond dam were in progress.

The health of the camp was normal.

There was an abnormal rainfall of about 93 during this year also as in the previous year.

The project was visited by the Governor of Orissa, the Minister for Public Works, Madras, the Deputy Ministers (Home and Works), Orissa, and the Chief Justice of Orissa.



MACHKUND HYDRO-ELECTRIC SCHEME—DIVERSION DAM—VIEW SHOWING THE RIGHT FLANK FRONT VIEW

The second meeting of the Joint Board of Control was held at Madras on 23rd May 1952.

(b) *Machkund Transmission Lines.*—The companies with whom contracts for the construction of the 132 KV. lines were placed have completed major portions of their work as detailed below:—

(i) *Machkund-Visakhapatnam 132 KV double circuit line (length 91 miles).*—Excavation work has been completed for all the 439 towers except the terminal tower at Machkund. Stub-setting for 406 towers was completed. Two hundred and eighty-one towers have been erected. Most of the materials for the line were received and stringing was expected to be commenced shortly. The entire line work is expected to be completed by the end of March 1954.

(ii) *Visakhapatnam-Peddapuram 132 KV. double circuit line (length 87.44 miles).*—The entire work except for stringing of earth wire which was in progress, was completed.

(iii) *Peddapuram-Vijayavada 132 KV. double circuit line (length 107.71 miles).*—Work on two sections of the line completed. On the third section, erection of towers, etc., was completed and stringing of conductors remained to be done.

(iv) *Tennuboddavara-Nellimarla 132 KV single circuit line (length 22.5 miles).*—Erection of towers completed. Stringing was in progress.

(v) *Sub-stations.*—Civil works on the various sub-stations, the more important of which are Vijayavada, Bhimadole, Rajahmundry and Simahachalam were almost complete. The electrical equipment for most of these sub-stations were being received and erection of equipment in some of the stations had been taken up.

(2) *The Moyar Hydro-Electric Scheme.*—All civil works from Singara diversion weir to Moyar forebay were completed and water was let into the forebay. The erection of the low pressure pipe line, surge tank and the three penstock lines with all controlling valves were completed and they were commissioned satisfactorily.

The 3 numbers 12,000 KW. generating units together with the connected switchgear and control equipment were commissioned. Two of the three step-up power transformers of 15,000 KVA. were brought into beneficial use and work on the third was to be taken up on receipt of the unit from United Kingdom.

(3) *The Pykara Plant Extensions III Stage.*—Excavation for Pykara dam was almost completed. Building masonry for the dam main structure, upstream and downstream retaining walls at right flank, formation of earthen bund at the right flank and concreting of R.C.C. core wall were in progress. The power and scour pipes were erected with their controlling valves.

The erection of the fourth penstock pipe with all anchors except for the terminal anchor portion at the Pykara power house was completed. The high pressure valves were received. The erection of steel structures for the power house extension was completed. The foundations for the machinery were nearing completion. Erection of the generating machinery at the power house was expected to be taken up shortly.



PYKARA DAM—VIEW FROM LEFT FLANK DOWNSTREAM AT LEVEL 6750 NEAR QUARRY —
GENERAL VIEW OF DAM



PYKARA PENSTOCK—PANORAMIC VIEW OF THE PENSTOCK—VIEW TAKEN FROM TOP OF POWER HOUSE EXTENSIONS

(4) *The Madurai Thermal Scheme.*—Construction of an additional cooling pond and foundation for the 10,000 KW turbo-set was completed. Work on infiltration well was in progress. The erection of the 10,000 KW set was completed and the set was put on trial run. It is expected to be commissioned in April 1953.

(5) *The Madras Power Station Extensions.*—Erection of two of the three boilers of 80,000 lb./hour capacity each under the I stage was completed and the boilers were commissioned in May and November 1952, respectively. Erection of the 15 MW set was completed and the set commissioned on 14th March 1953 but unfortunately due to the failure of the turbine it went out of service on 29th March 1953. Work on the I stage extension of the power house would be completed with the erection of the third 80,000 lb./hour boiler which was progressing.

Work on II stage extensions of the power house was expected to be taken up very shortly.

(6) *The Tungabhadra Hydro-Electric Scheme.*—For the dam power house all penstock pipes were fixed in the Dam by the Public Works Department. For the Canal power development detailed field investigations were being done at the forebay along the low pressure pipe line, surge tank and penstock alignment and at power house site. Detailed survey for transmission lines was in progress. Land acquisition proposals for all sub-stations were under examination. Orders were placed for all equipments including generating plant and step-up transformers to be obtained from abroad.

(7) *The Vijayavada-Rajahmundry-Samalkot Extensions.*—Almost all the works pertaining to this scheme were completed. Erection of outdoor switchgear for the three sub-stations was in advanced stage and was expected to be completed shortly.

(8) *The Visakhapatnam Power House Extensions.*—The East side extension work was completed except for provision of roof ventilators.

The work on the south side was completed. On the west side piling for the foundation for the VI boiler was completed.

As per design of the foundation for the III chimney all precast piles were driven. But due to soil condition the piles could not be driven to the full depth originally contemplated and the question of revising the design was under examination.

(9) *The Nellore Thermal Scheme.*—All the balance of works under I Stage were completed and handed over to Operation branch.

(10) *Madanapalle Thermal Scheme.*—The shed to house the diesel generating sets was erected and the work of erection of the sets was taken up by the contractors. Supply was expected to be switched on in May 1953.

(11) *The Madras-Mettur Inter-connection Scheme.*—All arrangements at the several sub-stations involved, viz., Erode, Mettur, Singarapet, Kancheepuram and Villivakkam were completed to change over the operation of the Madras-Mettur Interconnection including Mettur-Erode line from 66 KV to 110 KV programmed for the first week in April 1953.

Erection of synchronous condensers and outdoor switchgear and indoor control panels at Villivakkam sub-station were in advanced stage of progress.

(12) *The Kancheepuram-Chingleput-Arkonam Extensions.*—Almost all works at Kancheepuram sub-station were completed. The Kancheepuram-Arkonam section had already been commissioned. The Kancheepuram-Chingleput 33 KV line was completed and the sub-station works on this section at Palur, Walajabad and Chingleput were in progress.

(13) *The Madurai-Tirumangalam-Rajapalayam-Tenkasi 66 KV Extensions.*—The line was completed and handed over to Operation branch. The quarters at Sankarankoil were completed.

Equipments for sub-station were being received.

(14) *The Madurai-Sivaganga 66 KV Extensions.*—The line was completed in all respects and handed over to Operation branch.

(15) *The Papanasam-Tirunelveli-Kayattar 66 KV Extensions.*—The line work was completed and handed over to operation.

(16) *The Erode-Salem 66/110 KV Extensions.*—Erection of line was completed and line brought into beneficial use with temporary sub-station arrangements at Salem. Construction of foundation for structures at Salem sub-station was in progress.

(17) *Erode-Tiruchi-Dalmiapuram 66/110 KV Extensions.*—Erection of line from Tiruchi to Dalmiapuram was already completed and the line put to beneficial use in 1951-52 with temporary sub-station at Dalmiapuram. Work on the section between Erode to Tiruchirappalli was in progress this year. Construction of telephone lines at the Cauvery and the Coleroon crossings was completed. The additional quarters at Tiruchirappalli were also completed. Erection of equipment at the Dalmia sub-station was in progress.

(18) *The Pykara-Coimbatore-Madurai 110 KV Extensions.*—In the Pykara-Coimbatore reach, survey and preparation of tree valuation schedules were completed. The work was more advanced in the Coimbatore-Madurai reach. Tree clearance, stub-setting and concreting were in progress in this section.

(19) *Extension of power to South Kanara from Jog Hydro-electric Scheme of Mysore Government.*—Survey work and tree valuation schedules were completed. The power agreement has not yet been signed by the Mysore Government.

(20) *Pollachi-Negamam 66 KV line.*—The transmission line work was almost completed and 63 spans were taken over by the Operating branch during February 1953.

21. *Construction programme for 1953-54*—(1) *Muchkund Hydro-Electric Scheme.*—Diversion dam, flume channel, tunnel pond dam and surge shaft will be completed. Grading of penstock and construction of sub-structures for anchors and piers will be completed. Erection of pipes and valves will be in progress. Erection of machinery will be taken up. In Jalaput dam excavation and masonry will be in progress.

Work on transmission lines and sub-stations will be in progress.

(2) *Moyar Hydro-Electric Scheme.*—Balance of work comprising mainly the erection of the third power transformer will be completed.

(3) *The Pykara Plant Extensions III Stage.*—The Dam structure will be completed in all respects except for the erection of spillway gates and the formation of earthen bund which will be in progress.



TUNGABHADRA DAM—HYDRO-ELECTRIC PIPE SECTION UPSTREAM—SIDE VIEW OF THE FOUR TRASH RACES AT THE ENTRY OF PENSTOCKS

The power house extensions will be completed and erection of the generating plant will be nearing completion.

(4) *The Madurai Thermal Scheme.*—The 10,000 KW turbo-alternator set will be commissioned and the erection of boilers for the 10,000 KW set will be completed.

(5) *The Madras Plant Extensions.*—The first stage extension with the first 15 MW set and the 3 boilers of 80,000 lb./hour each with their connected auxiliaries are expected to be completed in all respects. Work under II stage involving a second 15,000 KW turbo-set and two 80,000 lb./hour boilers extension will be in full swing.

(6) *The Tungabhadra Hydro-Electric Scheme.*—Civil works connected with power house and camp will be taken up for execution. Transmission line construction work will be in progress.

(7) *The Vijayavada-Rajahmundry-Samalkot Extensions.*—Erection of sub-station structures at the various sub-stations will be completed.

(8) (a) *The Madurai-Tirumangalam-Rajapalayam-Tenkasi 66 KV Extensions.*

(b) *Madurai-Sivaganga 66 KV Extensions.*

(c) *Papanasam-Tirunelveli-Kayattar 66 KV Extensions.*

Erection of sub-station equipment at the various sub-stations will be in progress. Erection of telephone line will also be taken up.

(9) *The Erode-Salem 66/110 KV. Extension.*—Erection of equipments at Salem sub-station will be completed.

(10) *The Erode-Tiruchi-Dalmiapuram 110 KV Extension.*—Balance of construction of line from Erode to Tiruchi will be completed. Erection of equipments at Dalmiapuram and Tiruchi is also expected to be completed.

(11) *The Pykara-Coimbatore-Madurai 110 KV Extensions.*—Departmental erection of line in Pykara-Coimbatore reach is proposed and tower erection will be in progress. In Coimbatore-Madurai reach line construction will be in advanced progress.

(12) *Extension of power to South Kanara from the Jog Hydro-electric Scheme of Mysore Government.*—The execution of the line work will be taken up soon after agreement between Mysore and Madras State Governments for power supply from the Jog scheme is concluded which is expected by July 1953.

22. *Audit, Accounts and Stores.*—The accounts of the General Construction Circle were inspected by the audit staff in July 1952, those of the Moyar Circle in August and September 1952 and those of the Machkund Circle in April 1952, July 1952, August 1952 and November 1952. The number of stores in the General Construction Circle, Moyar, Machkund and Transmission line Construction (North) circles were 5 (one central and 4 sub-stores), 3 (one central and 2 sub-stores), 5 (one central and 4 sub-stores) and 5 (all sub-stores) respectively. The reserve limit of stock of the four circles was as follows:—

	RS.
	LAKHS.
(1) General Construction Circle	10.5
(2) Moyar Circle	18.24
(3) Machkund Circle	18.0
(4) Transmission line construction (North) ..	11.0

23. *Accidents.*—There were 2 electrical accidents in the Machkund circle.

There were 203 non-electrical accidents, out of which six were fatal. Four accidents occurred in the General construction circle, 31 in the Moyar circle, of which two were fatal and 168 in the Machkund circle, of which four were fatal. Compensation amounting to Rs. 24,624-13-0 was paid in respect of the accidents.

24. *Organization.*—During the year two civil divisions one with headquarters at Coonoor and the other at Hospet were formed one for attending to the Transmission line construction work on Pykara-Coimbatore III circuit line and the second to the preliminary works connected with the Tungabhadra hydro-electric scheme. The division at Udumalpet for transmission line construction work on Coimbatore-Madurai line and the division at Gooty under Tungabhadra hydro-electric scheme were kept suppressed temporarily. One civil division, two electrical divisions and one mechanical division at Moyar were wound up on completion of works at Moyar.

TECHNICAL BRANCH.

25. *General.*—The Technical branch comprising two circles, one electrical and one civil, continued to be busy with the preparation of designs, estimates, study of technical problems, investigations and hydro-metric and hydro-electric surveys and preparation of scheme reports and issue of specifications.

Reports in respect of the following new schemes were prepared and sent to Government for sanction:—

	RS. IN LAKHS.
(a) Singarappet-Villupuram 110 KV extension and other lines in the North and South Arcot districts	98.43
(b) Carrier Current Telephone for Southern Grid	8.00

Revised scheme reports were prepared and submitted to Government for sanction for the following schemes:—

	Initial cost. RUPEES IN LAKHS.	Ultimate cost. RUPEES IN LAKHS.
(a) Salem-Namakkal 110 KV Extensions	49.01	53.78
(b) Madras Plant Extensions	315.30	955.77
(c) Srikakulam Scheme	6.56	12.48
(d) Kadiri Scheme	5.58	12.507

The following were the new schemes sanctioned by Government during the year:—

	Initial cost. RUPEES IN LAKHS.	Ultimate cost. RUPEES IN LAKHS.
(a) Coimbatore-Madukarai-Palghat-Shoranur 110 KV Extensions	77.06	79.08
(b) Improvement Schemes (20 numbers)	4.33	..

Sanction of Government was also obtained for the revised estimate amounting to Rs. 49.01 lakhs initially and 53.78 lakhs ultimately for the Salem-Namakkal 110 KV extensions.

The following were the more important of the specifications issued during the year:—

(1) *Electrical*—

(a) Protected telephone equipment for the extensions to the Mettur, Pykara, Papanasam Systems and West Godavari, Machkund and Tungabhadra Schemes.

(b) Machkund Hydro-electric Scheme—Power transformers for Nellimarla, Bhimadolu, Rajahmundry Sub-stations.

(c) Workshop machinery for the Departmental workshops at Mettur.

(2) *Civil*—

(a) *Madurai Thermal Scheme.*—(1) Foundation and superstructure for 2—55,000 lb. hour boilers; and

(2) Platform and supports for 10,000 KW. turboset.

(b) *Madras Basin Bridge II Stage Extensions.*—Specification (1) for steel framed structure for boiler house, etc.

(c) *Machkund Hydro-electric Scheme.*—Specification for (1) Control and Repair house at Nellimarla sub-station and (2) Jalaput dam, Discharge pipes and controls.

(d) *Tungabhadra Hydro-electric Scheme.*—Specification for Low pressure pipe penstock, Surge tank, etc., for Canal power house.

The following were some of the more important contracts placed:—

	Rs. IN LAKHS.
(1) Tungabhadra Hydro-electric Scheme Turbines-Generators-Switchgear, Power transformers, etc.	127.97
(2) Tungabhadra Hydro-electric Scheme—66 KV lines	53.97
(3) Tungabhadra Hydro-electric Scheme—Dam site power house—Valves, meters, etc., and discharge pipes	5.45

The total value of contracts entered into and purchase orders placed for plant, machinery and equipment for capital works during the year amounted to nearly Rs. 269 lakhs.

In addition to the above materials for operation and maintenance, rural extensions and spares to the value of about Rs. 106.47 lakhs were ordered by the electrical branch.

Rural Extension.—Four hundred and forty-seven numbers major and minor extensions costing about Rs. 801 lakhs were scrutinized and sent up for sanction. Five hundred and thirty-eight numbers major and minor extensions costing about Rs. 524 lakhs have so far been sanctioned. Seventy-eight numbers major and minor extensions costing about Rs. 348 lakhs were under scrutiny at the end of the year.

Hydro-metric surveys.—Three measuring weirs and 28 rainfall stations were added during the year. Recording and computation of rainfall data for 355 rainfall stations and riverflow data from all the 23 measuring weirs in the various basins under observation in the State continued.

Hydro-electric surveys and investigation.—The hydro-electric surveys and investigation division was engaged on investigation connected with the Kundah and Periyar hydro-electric schemes. The exploration work for foundation of all civil and hydraulic works connected with the two schemes

was in progress. The Superintending Geologist of the Government of India inspected the Kundah site and gave his report. Certain modifications in the Kundah hydro-electric scheme, already submitted to Government, were suggested by the Central Water Power Commission and these proposals were discussed with Mr. Monkhouse, an expert under the Colombo Plan deputed by the Government of India who also inspected the site. The scheme report is under finalization and is expected to be sent to Government shortly.

OPERATING SYSTEMS BRANCH.

26. *General.*—This branch comprises (i) six operating systems, viz., Pykara, Mettur and Papanasam (fed by hydro power), Madras (fed by the thermal station at Basin Bridge, the transportable power station, and the Villivakkam emergency thermal station), Andhra (comprising the areas served by the thermal stations at Vijayavada, Visakhapatnam, Kakinada and other small diesel stations) and Rayalaseema served by power purchased from Mysore Government at Sokke from their Jog hydro-electric scheme, the thermal stations at Nellore, the diesel stations at Kurnool, Cuddapah, Anantapur, Nandyal, Tadpatri, Prodattur and Sandur, and Hindupur (fed from Sivasamudram 25 cycles supply of Mysore)—and (ii) two generation circles one with headquarters at Erode in charge of the 4 hydro (including the newly completed Moyar hydro-electric station) and one thermal station at Samayanallur and the other with headquarters at Madras in charge of the Basin Bridge Power House and Madras Plant Extensions.

The three hydro operating circles in the South, viz., Pykara, Mettur and Papanasam and the generation circle at Erode are under the control of the Chief Operation Engineer (South) while the other circles including the (Thermal) generation circle at Madras are under the Chief Operation Engineer (North). In addition the transmission line construction circle in the North in charge of the major line construction connected with the Machkund hydro-electric scheme is also under the control of the Chief Operation Engineer (North).

The operation and maintenance of all the operating generation systems were satisfactory.

The ever increasing demand for power in the State continued and unless the Periyar and Kundah hydro electric schemes recommended for inclusion in the State Five-year Plan are taken up immediately it is not possible to meet the demand satisfactorily.

This is the fifth successive year of failure of monsoon in the hydro areas and this has resulted in the imposition of restrictions and cuts in power consumption in the hydro-electric systems of the South. A 25 per cent cut in the supplies of electrical energy to all but essential services was in force at the beginning of the year in all the three hydro-electric systems. As water conditions deteriorated further, the cut was increased to 35 per cent with effect from 1st May 1952 and still further increased to 50 per cent from 15th May 1952. The south-west monsoon was late in setting in and the cut was relaxed to 25 per cent from 18th June 1952 and completely relaxed with effect from 1st July 1952. The restrictions in the hours of supply to agricultural and L.T. power loads were relaxed from 15th July 1952.

These relaxations did not last long. Water conditions again deteriorated in September 1952 both at Mettur and at Papanasam due to the partial failure of the south-west monsoon. The L.T. power loads had again to be grouped and staggered with effect from 22nd September 1952. A 25 per cent cut in power consumption was again enforced with effect from 29th September 1952. As the north-east monsoon was also a failure, the cut was increased to 35 per cent with effect from 5th January 1953 and further to 50 per cent with effect from 1st February 1953. The Mettur reservoir was depleted to meet irrigation needs leaving only a minimum of 50 feet head over the turbines. The power cut had therefore to be increased further still to 66-2/3rd per cent with effect from 1st March 1953 to tide over the critical position.

The Moyar station was commissioned on 10th April 1952 with one unit. The other two units were also commissioned later on during the year adding 36,000 KW. installed capacity to the hydel systems.

Two new 66 KV. sub-stations were commissioned at Kuthumunda and Uppatti in the Pykara system on 18th June 1952 and 19th June 1952, respectively.

Two temporary sub-stations at Kumbakonam and Mayuram in the Mettur system were energized.

At the 'B' power station of the Basin Bridge Power House two boilers of 80,000 lb./hour were commissioned one in May and the other in November 1952.

The following transmission lines were completed:—

- (a) Papanasam-Kayattar 66 KV. line.
- (b) Madurai-Sivaganga 66 KV. line.
- (c) Tirumangalan-Rajapalayam 66 KV. line.

Two 224 KW. diesel sets were erected in Udipi power house and supply position improved. Supply of power from Vijayavada to Narasaraopet and Ongole which were so far served by local diesel stations was effected during the year.

Two 224 KW. Deutz Siemens sets were erected at the Kakinada power house.

The existing surcharges continued to operate in all the operating systems and no new surcharges were levied.

No licensee undertakings were taken over under the Acquisition Act during the year.

GENERATION CIRCLE—HYDRO SYSTEMS.

27. *General.*—The generation circle at Erode, was formed in 1951-52. Its objective was to co-ordinate the operation of the three hydro-stations and the Madurai thermal station in the South as an inter-connected unit among themselves as well as in relation to the Madras thermal station enabling interchange of power between the hydel systems and the Madras thermal station to the best advantage of all the Systems connected to the grid. The circle functioned satisfactorily during the year.

The Moyar station was commissioned on 10th April 1952 with one unit (12,000 KW.) and the other two units were commissioned on 19th September 1952 and 6th January 1953 respectively. The third power transformer is not yet ready.

The operation and maintenance of the Pykara, Mettur, Papanasam and Moyar hydel power houses and the Madurai thermal station at Samayanallur and the Erode sub-station under the control of this circle were satisfactory.

The simultaneous demand on the hydro-station was 102,300 KW. compared to 105,900 KW. in 1951-52; the figure for 1952-53 demand is less than that for 1951-52 on account of the restrictions and power cuts that had to be imposed during early nine months in the year.

The year 1952-53 was yet another year of failure of monsoon, the fifth year in succession and as a result, storages in hydro-electric reservoirs particularly Papanasam and Mettur were far from satisfactory. Pykara had to afford relief to Papanasam and Mettur systems. The timely commissioning of the Moyar station helped a great deal to tide over the situation. The Madurai thermal station was run almost throughout the year. Restrictions on supply of power had to be imposed for a major part of the year to keep the demand within the limits of power available.

The power demands of all the hydro-systems totalled 113,000 KW. and the energy generated in all the hydro-stations and the Madurai thermal station amounted to 548.432 million units. Details are furnished hereunder:—

Name of system or power station.	System demand in KW.	Station demand in KW.	Total generation in millions of units for the year.
(1)	(2)	(3)	(4)
Pykara system	45,100	44,000	220.775
Moyar	..	24,200	84.563
Mettur system	45,900	31,400	137.620
Papanasam system	22,000	28,000	85.660
Madurai thermal station	..	3,600	19.811
Total ..	113,000	131,200	548.429

All the four hydro-stations together with the Madurai thermal station were working in parallel throughout the year. In addition they were running in parallel with the Madras station through the Madras-Mettur Interconnection and maximum relief obtained from Madras to tide over the crisis of water shortage while giving a small amount of relief to Madras during peak load hours to cope up with peak load demand of Madras.

28. *Pykara Station—General.*—During this the twentieth year of operation of this station the operation of the station was satisfactory. The station peak reached 44,000 KW. The Pykara system peak reached 45,100 KW. and 220.775 million units were generated during the year. The station was running in parallel throughout the year with the other hydro and thermal stations in the grid. The Pykara-Moyar 110 KV. feeder No. I was charged at 110 KV. first up to Moyar and then Moyar-Erode line similarly charged on 6th April 1952. The 110 KV. oil circuit breaker controlling No. I Pykara-Moyar 110 KV. feeder and 5 numbers 110 KV. P.T.S. supplied under contract to Pykara III Stage extensions were put into commission on 30th January 1953.

Water conditions.—The water storage at Mukurti reservoir and the total rainfall in inches in the catchment area of the Pykara system during the year under review and the previous year are furnished below:—

	1951-52.	1952-53.
Maximum level reached ..	6,883.6 ft.	6,881.07 ft.
Storage	1,777.8 Mc. ft.	1,683.59 Mc. ft.
Total rainfall in inches—		
Glenmorgan	71.30	48.64
Mukurti	91.37	52.78

Power house.—All the equipments in the power-house were giving satisfactory service except for some minor troubles detailed below:—

The No. 1 unit at the power house failed on 19th October 1952 due to flash over of end turns of the two adjacent coils of red phase and blue phase in the stator winding. This was rectified and the unit put back into service satisfactorily on 13th November 1952.

29. *Mettur Power Station—General.*—This is the sixteenth year of operation and the machines were giving satisfactory service during the year under review. The station peak was 31,400 KW. The system peak was 45,900 KW. compared to 45,700 KW. in the previous year. The total number of units generated during the year was 137.620 millions. Due to the poor storage conditions relief had to be obtained during the year from Pykara station and Madras thermal station.

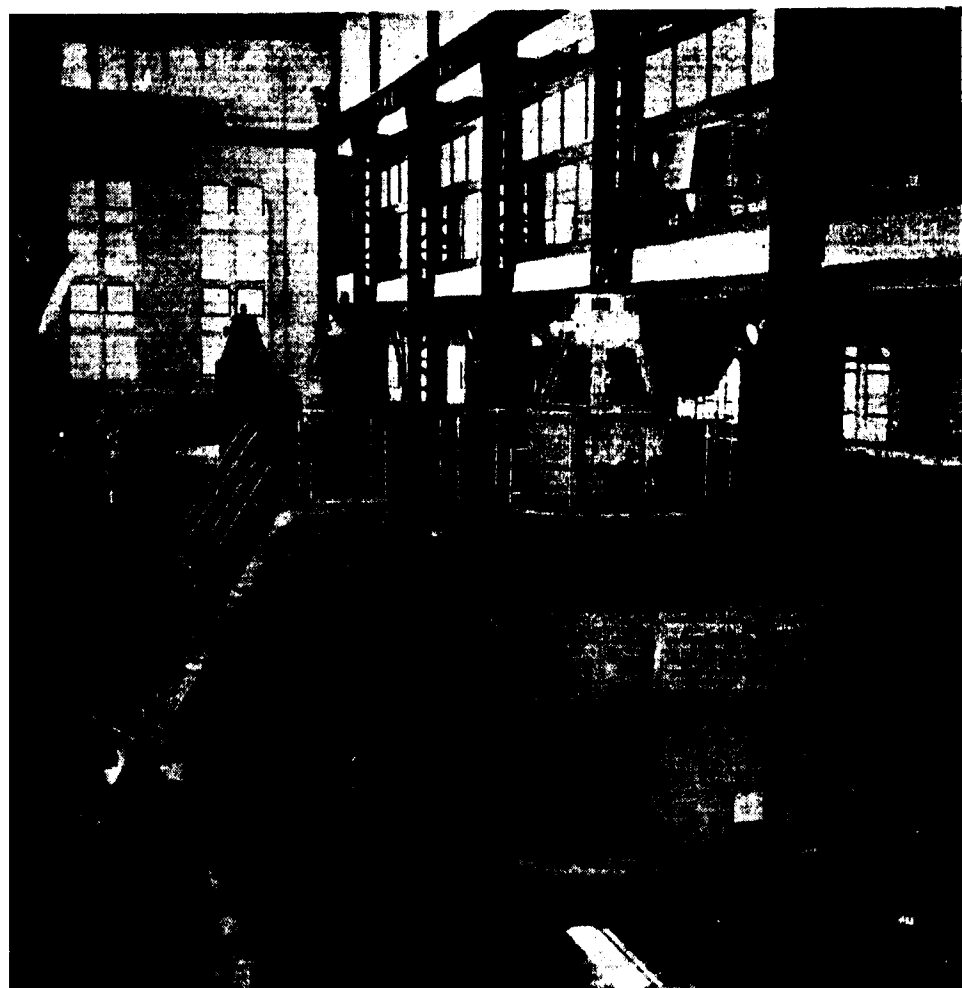
Water conditions.—The storage in the reservoir was far from satisfactory and particularly near the end of the year it was very poor. The gross head which was 76.2 feet on 31st March 1952 reached 111.2 feet by end of August 1952 but this was depleted to 83.9 feet by end of September 1952 due to heavy irrigation discharge. The gross head again gradually rose to 109.55 feet on 26th October 1952 but fell to 49.95 feet on 1st March 1953 due to heavy draw for irrigation purposes.

Power-house.—The operation and maintenance of the machines were satisfactory. The station was running throughout the year in parallel with others obtaining relief from Pykara and Madras. Annual overhaul of machines 1, 2 and 3 were taken up and completed.

The work of 110 KV. changeover of the outdoor step-up station was in progress and 110 KV. oil circuit breakers were newly erected for control of power transformers 2 and 3. All arrangements to carry out the changeover by the first week of April were completed.

Erode sub-station.—The sub-station was maintained in good condition. Temporary arrangements for the reception of power (110 KV) from Moyar power house were completed; 110 KV./66 KV. auto-transformers commissioned and Moyar power received from 10th April 1952. Further work connected with 110 KV. changeover was in progress.

30. *Moyar power-house.*—This is the first year of operation of this station and all the 3 units were commissioned during the year and were giving satisfactory performance except for certain cracks noticed in a few buckets of the runners of all the three machines. These defects have been taken up with the contractors, and remedial measures are being arranged. The station was running in parallel continuously with the other hydro-stations. The station peak was 24,206 KW. and the number of units generated in the year 84.563 millions.



INTERNAL VIEW OF MOYAR POWER HOUSE

31. *Papanasam Station.*—During this, the ninth year of operation, the station was giving satisfactory service. The peak load of the station was 28,000 KW. The system demand was 22,000 KW. as against 23,700 KW. in 1951-52. 85.660 million units were generated during the year.

Water conditions.—As in the previous year the water conditions were not satisfactory owing to the feeble south-west monsoon and the failure of the north-east monsoon. The lake was fully depleted by end of September 1952 by special irrigation discharges.

The rainfall for the year in the upper and lower camps was as follows:—

	1951-52.	1952-53.
	INCHES.	INCHES.
Dam camp (Upper camp)	88.85	57.51
Papanasam camp (Lower camp) ..	52.27	34.27

Power-house.—The equipments at the station were maintained satisfactorily. The cable pot head of No. 4 power transformer red phase failed. This was rectified immediately and transformer restored to standby conditions.

The Relief valve of No. 1 turbine was dismantled and thoroughly overhauled and refitted in position.

Runner of machine No. 3 was inspected and the blades were found corroded and cracked on welding joints. The runner was replaced by a spare one.

Thambraparni Dam.—The dam and its controls were all maintained in a good condition. The overhaul of the surplus gate was carried out in 1948.

32. *Madurai Thermal Station.*—The station at Samayanallur was giving satisfactory service during this the third year of operation. The 10 MW. set was expected to be commissioned shortly. The coal position during the year was satisfactory. The station peak load reached 3,600 KW. and the total units generated amounted to 19.811 millions. The station was in service throughout the year affording relief to the Papanasam hydel station.

33. Programme for 1953-54—

- (1) Completion of the 110 KV. changeover work at Mettur and Erode.
- (2) Mulsifyre protection works at Mettur and Pykara power houses.
- (3) Completion of the erection of the 4th 12,500 KVA. transformer and 2 numbers 10,000 KVA. reactors at Mettur power house; and
- (4) Repairs and improvements to Pykara main flume channel to increase its capacity from 200 cusecs to 240 cusecs.

PYKARA SYSTEM.

34. *General.*—The year under review was the twentieth year of operation of the system. The operation and maintenance of the system was satisfactory during the year. A system peak load of 45,100 KW. was reached as against 47,300 KW. in 1951-52. The reduction in peak in 1952-53 is due to more adverse water conditions and consequent restrictions and cut in power supply which had to be imposed as early as September 1952.

Two new 66 KV. sub-stations at Kuthumunda and Uppatti were commissioned on 18th June 1952 and 19th June 1952 respectively.

The erection of the 66 KV. temporary sub-station at Somanur was in good progress.

The extension to Nilambur in Malabar district was completed and energised on 13th August 1952.

The Tirur-Ponnani Extensions were almost completed. The distributions at Tirur, Tanur, Parappanangadi, Muniyoor and Ponnani were expected to be ready for energising very shortly.

The line work connected with the Negamam-Pollachi 66 KV. extension was almost completed.

On the Kollengode extension, the 22 KV. lines from Palghat to Peruvamba, Pudunagaram and Koduvayur with the allied L.T. lines were expected to be completed shortly.

In the Udipi power station two new 224 KW. diesel generating sets were erected and commissioned and the supply position put on a sound footing.

The total number of units generated during the year was 220.775 million units compared to 242.01 million units in the previous year.

Due to the cyclone in December 1952 the earthwire between towers 243 and 244 of the Coimbatore-Madurai 66 KV. feeder got snapped on 1st December 1952 and was promptly rectified.

All the three power transformers at Udumalpet sub-station were overhauled.

Emergency oil drainage arrangements have been provided at Tiruppur sub-station.

Six hundred and fifty-eight agricultural pumpsets with a connected load of 2,736.62 KW. (inclusive of 13 pumpsets with a connected load of 74 KW. in the area of acquired undertakings and one with a connected load of 2.25 KW in the Udipi area) were connected up during the year. Inclusive of 124 pumpsets with a connected load of 484 KW. in the area of the acquired undertakings, 6 with a connected load of 23 KW. in the Kollegal area and one with a connected load of 5 KW in the Udipi area, the total number of agricultural services in service at the end of the year were 8,199 with a connected load of 36,340 KW.

Water conditions.—Due to adverse water conditions particularly at Mettur and Papanasam all the four hydro-electric stations and the two thermal stations of Madras and Madurai were running in parallel. Restrictions and cuts on consumption of electricity were imposed to keep the demand and power consumption within the limits of the supply available. The timely commissioning of the Moyar power house alleviated the power shortage to a great extent. Details of the cuts in power consumption imposed on all but essential supplies at various stages owing to adverse water conditions are given under the paragraph "General" under Operating Systems Branch.

35. *Load development.*—The growth of load and revenue since the commencement of the operation of the system is furnished in the statement below:—

Year.	Peak load in KW.	Energy generated in millions of units.	Gross revenue.
			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	165.14 ,,	2.38* 52.2
1943-44	31,000	165.74 ,,	7.78* 56.6
1944-45	30,300 (a)	158.59 ,,	2.86* 49.7
	26,600 (b)-(1)		
1945-46	38,800 (a)	173.11 ,,	1.27* 53.0
	27,150 (b)		
1946-47	37,800 (a)	145.0 ,,	3.4* 52.6
	27,700 (b)		
1947-48	38,600 (a)	155.0 ,,	7.2* 57.77
	32,050 (b)		
1948-49	42,800 (a)	208.2 ,,	9.09* 71.78
	35,600 (b)		
1949-50	42,900 (a)	222.86 ,,	11.29* 85.57
	37,600 (b)		
1950-51	43,600 (a)	227.80 ,,	15.52* 93.61
	41,450 (b)		
1951-52	44,000 (a)	242.01 ,,	13.23† 114.77
	47,400 (b)		
1952-53	44,000 (a)	220.775 ,,	84.563† 118.26
	45,100 (b)		

Represents units purchased from Mettur.

Represents units purchased from Papanasam.

Represents units generated at Moyar.

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

(b) Peak for the system load only.

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

36 Financial results—

Particulars.	Amount.
	RS.
(1) Capital outlay including arrears of interest ..	6,19,88,088
(2) Gross receipt	1,18,25,513
(3) Operation and maintenance expenses excluding suspense	40,88,306
(4) Depreciation Reserve fund	12,75,146
(5) Special Reserve fund	5,10,058
(6) Total expenses (3) + (4) + (5)	58,73,510
(7) Net revenue (2) — (6)	59,52,003

37. *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 KW.	Number of consumers.	Connected load in KW.	Number of consumers.	Connected load in KW.
I. High-tension—						
(a) Textiles ..	46	32,837	..	..	1	727
(b) Cement ..	1	6,895	..	..	..	..
(c) Oil and industries.	6	606	..	..	3	1,687
(d) Cordite factory ..	1	1,628	..	..	..	..
(e) Tea estates ..	53	6,296	..	..	..	..
(f) Licensees ..	4	13,819	..	..	..	..
(g) Municipalities ..	3	12,370	..	..	..	..
(h) Miscellaneous ..	13	2,138	1	50	3	749
(i) Water works ..	1	130	..	..	1	113
(j) Government departments.	12	4,122	..	..	..	..
Total ..	140	80,841	1	50	8	3,276
II. Low-tension—						
(a) Industries ..	1,132	13,138	440	3,893	446	4,013
(b) Agriculture ..	8,199	36,340	185	860	116	363
(c) Domestic light and fans.	34,207	17,747	10,024	4,803	11,397	5,404
(d) Commercial light and fans.	3,617	697	2,550	2,393	1,313	526
(e) Street lights ..	63	553	5	281	10	181
(f) Water works ..	1	5	2	13	1	7
(g) Miscellaneous ..	9	1,152	5	54	..	..
(h) Railways ..	20	157	4	23	6	49
Total ..	47,248	69,789	13,215	12,320	13,289	10,543

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

Voltage.		Constructed during 1952-53.		Total at the end of 1952-53.	
		Single circuit in miles.	Double circuit in miles.	Single circuit in miles.	Double circuit in miles.
	(1)	(2)	(3)	(4)	(5)
I. High-tension—					
110 KV	..	(—) 53.0	1.6	..	70.6
66 KV	..	7.4	..	100.4	215.0
33 KV	..	..	..	..	..
22 KV	..	38.37	.05	640.77	99.35
11 KV	..	(—) 2.12	.13	699.58	58.63
		(—) 9.35	1.78	1,440.75	443.58
Acquired undertakings—					
22 KV and 11 KV	..	(—) 0.83	..	45.68	..
Udipi-Karkala 11 KV	..	0.85	..	4.10	..
Fort Cochin 22 KV	..	0.20	..	1.65	..
Kollegal 13.2 KV	..	..	..	4.0	..
Total ..	..	(—) 9.63	1.78	1,496.18	443.58
II. Low-tension—					
Pykara	..	150.94	..	2,057.84	..
Acquired undertakings	..	(—) 16.5	..	237.50	..
Udipi-Karkala	..	..	..	15.12	..
Kollegal	..	(—) 0.155	..	13.045	..
Port Cochin	..	1.40	..	11.50	..
		135.685	..	2,335.005	..

There was a decrease of 7.85 miles of H.T. lines and a net increase of 135.69 miles of low-tension lines over last year.

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 for the past five years is furnished below:—

Year.	Numbers.	Aggregate capacity in KVA.
1949-50	8	140,180
1950-51	9	140,680
1951-52	9	140,680
1952-53	11	142,680

40. *Coimbatore Receiving Station.*—The station peak was 38,650 KW. on September 1952. The 11, 22 and 66 KV. peak loads are given below:—

11 KV peak	15,650 KW. in July 1952.
22 KV peak	12,600 KW. in August 1952.
66 KV peak	20,000 KW. in January 1953.

Mulsifyre protection work at Coimbatore Receiving Station was completed. The system of operation was tested by blowing out a detector and the performance was all right.

The 5,000 KVA. Ferranti transformer No. 7 which failed on 19th October 1951 was repaired and commissioned satisfactorily on 2nd May 1952.

The low rupturing capacity oil circuit breakers controlling Pollachi I and P.N.P. feeders I and II were replaced with new 250 MVA. oil circuit breakers.

Balanced earth leakage protection has been provided on the low-tension side of the 5,000 KVA. transformers Nos. 4 and 7 on April 1952 and August 1952 respectively.

Distributions.—The number of distribution transformers erected during the year and the total aggregate capacity are furnished below:—

Number of new transformers erected during the year 1952-53.	Aggregate capacity of transformers in column (1) including increase in capacity.	Total number of distribution transformers in service at the end of 1952-53.	Aggregate capacity of transformers in column (3).
(1)	(2)	(3)	(4)
62	5,580	861	53,500 KVA.

41. *Agricultural services and rural industries.*—Supply was afforded to 658 agricultural pumpsets with a connected load of 2,736.62 KW. Lines have been extended to 825 numbers pump sets but parties were not ready to avail supply.

with a total connected load of 8,465 KW. at the end of the year. Electricity connected up during the year bringing the total number to 624 * numbers with total connected load of 8,465 KW. at the end of the year. Electricity was extended to 33 villages during the year.

NOTE.—*Last years' figures reported as incorrect.

42. *Commercial activities.*—Proposals for extending high-tension supply to the following consumers were sanctioned during the year:—

- (1) Bleaching Factory, Mettupalayam.
- (2) Government Cinchona Factory, Anamalais.
- (3) P.S.G. Estate, Vedapatti.

- (4) Government Silk Filatures, Kollegal.
- (5) Glenvas Tea Factory, Nilgiris.
- (6) Central Studios, Coimbatore.
- (7) Jothi Mills, Perianaickenpalayam.

Proposals for extending high-tension supply to three other consumers were recommended for sanction and proposals for six more consumers were under investigation.

Twenty-seven schemes were taken up for execution during the year and are expected to be completed shortly. When these are completed 609 wells and 18 rural industries will get electric supply.

Eight schemes taken up for execution prior to 1952-53 were completed during the year.

43. *Rural welfare.*—The progress in rural welfare schemes of the system was as follows:—

Palladam-Tiruppur and Avanashi firkas.—Power was made available to 170 wells in the following villages in the above three firkas:—

(1) Sekkampalayam, (2) Chellapalayam, (3) Chinneripalayam, (4) Vethuvapalayam, (5) Vadagupalayam, (6) Aruppapadaga, (7) Rakkipalayam, (8) Sembianallur, (9) Ganapathipalayam, (10) Andipalayam and (11) Karavalur.

Supply to 373 houses in Bikkatti group I and II villages in Kundah firka was completed and supply effected.

44. *Meter, relay test and special maintenance.*—Precommissioning and commissioning tests on Nos. I, II and III generating units in the Moyar power-house were conducted. Precommissioning tests of the Tirur-Ponnani Kiosk at Kozhikode sub-station as well as the electrical equipments of the two numbers 234 KW. sets at Udipi power-house were also done. The soil resistivity tests in South Kanara district were again conducted to confirm previous results.

Fourteen thousand, one hundred and thirty low-tension meters, 230 high-tension meters, 255 relays and 3,578 other instruments were tested and/or repaired.

Laboratory and site tests were conducted on 405 numbers telephone instruments and 98 spare parts were either repaired or manufactured.

The special maintenance subdivision tested and overhauled 48 numbers new transformers and 173 old transformers. Ninety numbers distribution transformers were issued to the field and 117 numbers transformers released for periodical overhaul. Thirty-seven sick transformers were repaired and 295 high-tension metering sets overhauled. A total of 1,358 gallons of transformer oil was reconditioned and 3,543 numbers oil samples were tested.

45. *Interruptions and breakdowns.*—There was no major interruption on the 110 KV. and 66 KV. lines.

There were 64 and 41 interruptions of more than three hours' duration on the 22 and 11 KV. lines respectively due to various causes which were rectified expeditiously.

46. *Udipi-Karkala Undertaking.*—Two numbers 224 KW. (Deuts engine) generator sets were erected and commissioned at the Udipi power-house and full 24 hours' supply was given in the area.

Extension of supply to Malpe and Kadavoor in Udipi area was completed and energised.

The peak load of the Udipi power-house was 160 KW. and the number of units generated 288,387.

The peak load of the Karkala power-house was 35 KW. and the number of units generated was 55,644.

47. *Kollegal distribution.*—This is the fifth year of operation. The demand of the supply taken from Mysore was 140 KW. and the units purchased were 45 million. The total number of consumers at the end of the the year was 533 and the total connected load 533 KW.

Fort Cochin.—This is the second year of operation under Government management.

0.27 million units were purchased for distribution in the area from the Mattancheri licensee in the Travancore-Cochin State. The peak load was 85 KW.

48. Programme for 1953-54—

- (1) Completion of temporary sub-station at Somanur.
- (2) Completion of Pollachi-Negamam lines and Pollachi 66 KV. sub-station.
- (3) Singanallur-Somanur Extensions will be in progress.

METTUR SYSTEM.

49. *General.*—During this, the sixteenth year of operation of the system, the operation and maintenance of the system was satisfactory.

The system peak was 45,000 KW. as against 45,700 KW. last year. The station peak was only 31,400 KW. as against 37,400 KW. in 1951-52. The total number of units generated was 137.62 millions as against 216.54 millions in the previous year.

The revenue earned during the year was 101.36 lakhs as against 101.53 lakhs in the previous year.

Six hundred agricultural pumpsets with a connected load of 2,450 KW. were connected up during the year. The system connected load was 167,317 KW. as compared to 153,972 KW. in the previous year.

Two temporary 66 KV. sub-stations one at Kumbakonam and the other at Mayuram and one temporary 33 KV. sub-station at Chidambaram were energised during the year.

One 2,000 KVA. A.C.E.C. transformer at Thiruchirappalli sub-station failed on 15th September 1952. A 2,500 KVA. Bush transformer was erected in its place.

Due to the severe cyclone that swept through the southern districts on 30th November/1st December 1952, there was interruption of supply to Tiruchirappalli area and beyond in the licensees' area for a period of two days. Damage to departmental lines was minor but licensees' lines sustained heavy damage.

The work connected with the 110 KV. changeover at Singarappet was nearing completion. One 2,500 KVA. 22 KV. Booster was erected at Villupuram sub-station on the Vriddhachalam feeder.



VIEW OF SINGARAPET SUB-STATION AS IT LOOKS AFTER THE 110 K.V. CHANGE OVER

High-tension supply was extended to Messrs. Karur Mills, Limited, Thanthoni and to Salem Water Works at Mettur.

Due to financial stringency and cut in budget grant work on construction works had been slowed down.

50. *Load development.*—The statement below indicates the growth of load and revenue since the commencement of operation of the system:—

Year.		System peak load in K.W.	Station peak load in K.W.	Units generated in millions.	Gross revenue. RS. IN LAKHS.
(1)		(2)	(3)	(4)	(5)
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 *	88.70 plus 23.68	34.39
1946-47	.. ..	23,850	35,000 *	96.24 plus 17.85	39.47
1947-48	.. ..	29,700	36,700 *	135.70 plus 13.81	48.14
1948-49	.. ..	35,800	39,600 *	156.80 plus 27.83	62.05
1949-50	.. ..	38,700	43,800 *	161.39 plus 13.84	70.32
1950-51	.. ..	41,100	46,900 †	183.10 plus 9.86	85.97
1951-52	.. ..	45,700	37,400	216.54	101.53
1952-53	.. ..	45,900	31,400	137.62	103.55

* Station peak with relief to Pykara.

† Station peak with relief to Pykara and Madras.

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

	RS.
1 Capital outlay including arrears of interest	5,10,03,089
2 Gross revenue	1,03,55,377
3 Operation and maintenance including suspense	53,84,317
4 Depreciation reserve fund	13,61,513
5 Special reserve fund	5,44,605
6 Total expenses	72,90,435
7 Net revenue	30,64,942

52. *Connected load.*—The connected load of the system under various categories is indicated in the statement below:—

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.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
I. High-tension—						
(a) Textiles	4	2,171	..	..	7	4,785
(b) Cement	..	..	..	..	2	6,126
(c) Mines	2	270	..	..	..	..
(d) Chemicals	1	6,386	..	..	2	1,109
(e) Oil	3	280	..	..	6	900
(f) Steel	..	..	..	..	1	2,467
(g) Licensees	23	106,326	..	..	3	4,166
(h) Municipalities	3	5,159	..	..	..	..
(i) Water-works	3	753	1	104	2	89
(j) Government depart- ments	3	413	..	..	1	50
(k) Sugar	1	691	..	..	1	190
(l) Railways	4	4,844	1	36	2	84
(m) Metals	1	107	..	..	..	..
(n) Miscellaneous	3	295	..	..	1	941
Total	51	127,695	2	140	28	20,907

Description of load. (1)	Departmental.		Municipal.		Licensees.	
	Number of consumers. (2)	Connected load in KW. (3)	Number of consumers. (4)	Connected load in KW. (5)	Number of consumers. (6)	Connected load in KW. (7)
II. Low-tension—						
(a) Industrial	846	10,356	214	1,989	2,872	30,484
(b) Irrigation and agriculture	5,028	19,412	21	101	3,752	17,274
(c) Domestic (heat and power)	18,621	7,444	2,256	1,102	64,238	28,288
(d) Commercial (heat, and power)	4,086	1,196	4,699	1,458	14,391	5,712
(e) Public lighting	135	222	2,174	177	810	1,162
(f) Public water works	4	54	3	19	72	756
(g) Railways	8	393	6	31	82	589
(h) Miscellaneous	48	545	88	142	314	1,151
Total ..	28,776	39,622	9,461	5,019	86,531	85,419
Grand total ..	28,827	167,317	9,463	5,159	86,559	106,326

NOTE.—Number of consumers supplied by the French India Government, Pondicherry, has not been received and therefore not included in the above.

The total connected load at the end of the year was 167,317 KW. as against 153,972 KW. at the end of 1951-52.

53. *Transmission lines and sub-stations.*—The mileage of transmission and distribution lines constructed during the year and the total mileage at the end of the year are furnished in the statement below:—

Voltage.	Constructed during 1952-53.		Total at end of 1952-53.	
	Single circuit in miles.	Double circuit in miles.	Single circuit in miles.	Double circuit in miles.
High-tension lines—				
66 KV. ..	45	..	319.5	228.5
33 KV. ..	10	..	221.3	..
22 KV. ..	5.3	..	498.7	..
11 KV. ..	79.6	..	679.6	1.8
Total ..	139.9	..	1,719.1	230.3
Low-tension lines.	115.2	..	1,251.1	..

NOTE.—The above figures include the lines under the control of the Superintending Engineer (Generation), Erode.

Forty-five miles of 66 KV. lines between Tanjore-Kumbakonam and Mayuram and 27 miles of 33 KV. lines between Mayuram and Chidambaram were energised during the year.

The 33 KV. line between Tanjore and Papanasam (17 miles) is kept charged at 11 KV. consequent on the dismantling of Papanasam sub-station and hence shown under 11 KV.

Net increase in mileage during the year amounted to 139.9 miles of high-tension lines and 115.2 miles of low-tension lines.

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

At the end of 1949-50 ..	..	26 numbers ..	..	108,850 KVA.
At the end of 1950-51 ..	..	27 numbers ..	..	117,600 KVA.
At the end of 1951-52 ..	..	25 numbers ..	..	69,250 KVA.
At the end of 1952-53 ..	..	26 numbers ..	..	121,000 KVA.

The 33 KV. sub-station at Papanasam (Tanjore district) was dismantled and supply to Kumbakonam licensee was effected from the new Kumbakonam 66 KV. sub-station.

An additional point of supply was given to the South Madras licensee at the new Mayuram 66 KV. sub-station.

The South Arcot licensee was given a new point of supply at the new Chidambaram 33 KV. sub-station.

Distributions.—Six hundred and seventy-four distribution transformers with an aggregate capacity of 41,925 KVA. were in service at the end of the year as against 573 totalling 34,945 KVA. last year.

55. *Commercial activities.*—Due to cut in budget grant commercial and construction activities had to be slowed down. One hundred and thirty schemes at an estimated cost of nearly Rs. 2.67 crores were investigated. The total number of applications on file for supply of power was over 17,600, a greater portion being for agricultural purposes.

56. *Agricultural services.*—Six hundred agricultural pumpsets with a connected load of 2,450 KW. were connected during the year, bringing the total number of pumpsets in service at the end of the year to 5,003 with a connected load of 19,323 KW. This is exclusive of the 25 pump-sets with a connected load of 89 KW. taken over from the Tiruvannamalai undertaking.

57. *Rural industries.*—Twelve industrial services with a connected load of 89.5 KW. inclusive of one service with a connected load of 4 KW. in the Tiruvannamalai municipal area were connected up during the year, bringing the total number to 846 with a connected load of 10,356.5 KW. inclusive of 32 rural industries with a connected load of 338 KW. taken from the Tiruvannamalai undertaking.

Fifty-one villages were electrified during the year bringing the total electrified to 368 at the end of the year.

58. *Rural welfare.*—Twelve numbers schemes costing over Rs. 14.47 lakhs were sanctioned under Firka Development schemes for extending supply to Thirunjavuram, Kalasapakkam and Tirunavalur firkas.

However, many of the schemes sanctioned had to be deferred for want of necessary finance.

59. *Meter, relay tests and special maintenance.*—During the year 10,446 L.T. meters, 103 H.T. meters, 278 relays and 1,765 miscellaneous instruments were tested and repaired. In addition 320 telephone instruments were repaired.

The special maintenance subdivision carried out the following more important works among other things:—

(1) Fourteen numbers power transformers (7 new and 7 old) with an aggregate capacity of 11,000 KVA. and one 2,000 KVA. booster were assembled and erected.

(2) Three numbers 500 KVA. transformers were repaired.

(3) One 66 KV. oil circuit breaker and one 33 KV. oil circuit breaker, one 22 KV. oil circuit breaker and 3 numbers 11 KV. oil circuit breakers were transported and erected.

(4) One hundred numbers old distribution transformers with an aggregate capacity of about 5,500 KVA. and twenty-two numbers new transformers with an aggregate capacity of about 1,500 KVA. were overhauled, tested and serviced.

(5) Two numbers 22 KV. metering sets were transported and erected.

(6) The failed 2,000 KVA. A.C.E.C. transformer and 22 KV. kiosk at Tiruchirappalli were examined in detail.

60. *Interruptions and breakdowns.*—Consequent on the severe cyclone which swept the southern areas of the State during 30th November 1952 and 1st December 1952 there was an interruption of more than two days to the Tiruchirappalli and Tanjore districts and supply was resumed by the licensees as expeditiously as possible.

61. *Workshops.*—The total outturn during this the eighteenth year of its existence was Rs. 14.05 lakhs under line materials and Rs. 10.70 lakhs under tower materials.

The total number of men employed was 731.

One oil storage tank of 2,500 gallons capacity was completed and another was in progress.

The workshop expansion programme is in progress and additional machinery worth Rs. 20,000 were erected. The more important work in the workshop in progress is the manufacture of towers for Coimbatore-Madurai 110 KV. line and the erection of the electro-galvanizing plant.

62. *Programme for 1953-54.*—(1) Change-over of operation of the Mettur-Erode and Mettur-Singarappet-Villivakkam lines from 66 KV. to 110 KV.

(2) Erection of permanent sub-stations at Salem, Dalmiapuram, Kumbakonam, Chidambaram and Mayuram will be in progress.

(3) The third circuit 66/110 KV. line between Erode and Tiruchirappalli will be energised.

PAPANASAM SYSTEM.

63. *General.*—The year under review is the ninth year of operation of the system and the operation and maintenance of the system during the year were satisfactory.

The system peak load reached 22,000 KW. as against 23,700 KW. in 1951-52. The reduction is due to low water conditions and consequent power cuts.

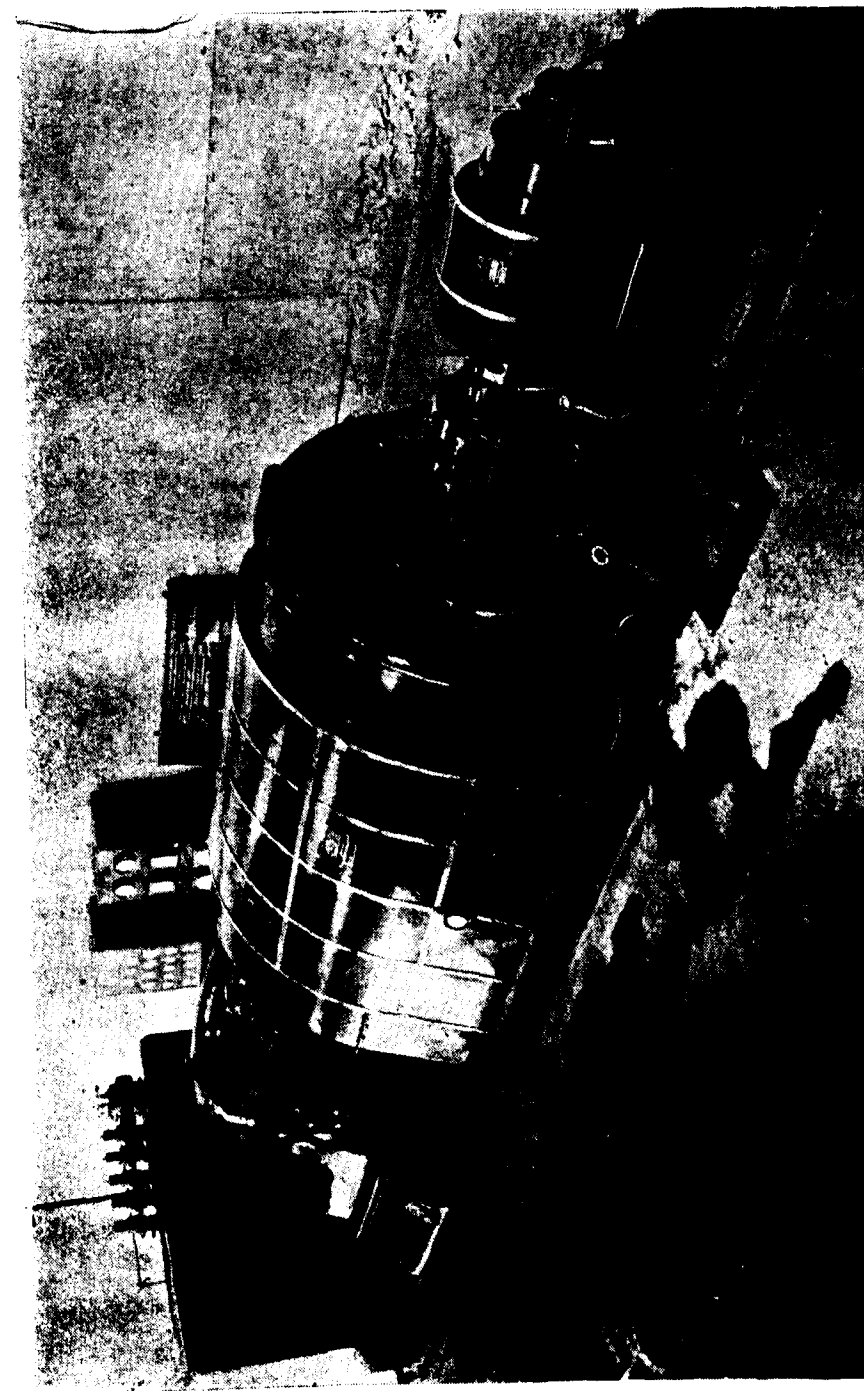
The number of units generated during the year at the Papanasam power-house was 85.66 million units as against 120.4 millions last year. The number of units generated at the Madurai thermal station was 19.81 millions as against 15.47 millions in 1951-52.

The gross revenue earned by the system was Rs. 54.56 lakhs as against Rs. 53.96 lakhs in the previous year.

The Madurai thermal station was running throughout the year giving relief to the hydro-electric system.

On account of the very poor water conditions prevailing in the hydro-electric reservoirs relief was availed for a few days from the Pallivasal hydro-electric station of the Travancore-Cochin Government. Supply to the Travancore-Cochin Government and the Shencottah licensee of the Travancore-Cochin State was discontinued with effect from 16th June 1952 and 1st January 1953 respectively.

Work on the 66 KV. Papanasam-Thalayuthu-Kayattar, Madurai-Tirumangalam-Rajapalayam-Tenkasi and Madurai-Sivaganga lines was completed.



PAPANASAM II STAGE EXTENSIONS—MADURAI THERMAL STATION—VIEW OF 10,000 K.W. TURBO-GENERATOR SET UNDER ERECTION

Three numbers 2,000 KVA. English Electric Company transformers were commissioned at Virudunagar replacing existing 3 numbers 1,000 KVA. units.

One number 1,250 KVA. transformer released from Virudunagar sub-station was erected and commissioned at Tuticorin sub-station.

One number 5,000 KVA. 66-33/11 KV. transformer released from Korattur sub-station was commissioned at Pasumalai sub-station for receiving the extra generation from the 10,000 KW. turbo-set under erection at Madurai thermal station.

Three hundred and eighty-three agricultural pump-sets with a connected load of 1,217 KW. were connected up during the year bringing the total number of pump-sets at the end of the year to 1,875 with a connected load of 5,912 KW. The total connected load of the system at the end of the year was 76,196 KW. as against 65,510 KW. in 1951-52.

64. *Load development.*—Due to ban on connecting up new industrial services consequent on the water shortage in the hydro-electric areas and on account of budget cut the system demand has actually fallen to 22,000 KW. in 1952-53 from 23,700 KW. in 1951-52.

The table below indicates the growth of load and revenue since the commencement of operation of the system:—

Year	Peak load in KW.	Units generated in million KW.	Gross revenue. RUPEES IN LAKHS.
1944-45	8,700	21.265 plus 21.979 *	12.09
1945-46	9,800	47.21 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 * plus 1.07 †	41.00
1951-52	23,700	120.4 plus 15.47 †	53.96
1952-53	22,000	85.66 plus 19.81 †	54.52

* Represents units purchased from Pykara.

† Represents units generated at the Madurai Thermal Station.

65. *Financial results.*—The statement below indicates the financial working of the system during the year under review:—

	RS.
(1) Capital outlay including arrears of interest	5,47,12,075
(2) Gross revenue	54,52,349
(3) Operation and maintenance excluding suspense ..	28,20,934
(4) Depreciation reserve fund	6,34,518
(5) Special reserve fund	2,53,807
(6) Total expenses	37,09,259
(7) Net revenue	17,43,090

ADMINISTRATION REPORT OF THE

66. *Connected load.*—The connected load of the system under various categories is given in the tabular statement below:—

Serial number and description of load. (1)	Urban.	
	Number of consumers. (2)	Connected load in KW. (3)
I. High-tension—		
(a) Textiles	14	8,039
(b) Cement	1	3,047
(c) Oils	6	417
(d) Chemicals	1	250
(e) Other industrials	2	146
(f) Licensees	3	22,701
(g) Municipalities	1	12,771
(h) Government department	..	..
(i) Water works	1	54
Total	29	47,425
II. Low-tension—		
(a) Industrial	498	4,090
(b) Irrigation and agriculture	2,049	6,545
(c) Domestic services	23,034	10,966
(d) Street lights	74	239
(e) Railways	14	54
Total	25,669	21,894
III. Licensee undertakings taken over by Government—		
(a) Rajapalayam	3,966	4,031
(b) Sivakasi	1,567	988
(c) Virudunagar	3,419	2,475
(d) Rameswaram	130	21
Total	9,082	7,515
Grand total	34,780	76,834

The total connected load of the system at the end of the year was 76,834 KW. as against 72,676 KW. in 1951-52.

67. *Transmission lines.*—The total length of transmission and distribution lines in the Papanasam system is furnished in the statement below:—

Voltage.	Constructed during 1952-53.		Total at the end of 1952-53.	
	Single circuit lines in miles.	Double circuit lines in miles.	Single circuit lines in miles.	Double circuit lines in miles.
I. High tension lines—				
66 KV.	..	..	48.1	125.4
33 KV.	..	..	34.7	..
22 KV.	..	..	64.0	..
11 KV.	54.6 *	..	416.0	10.1
6.6 KV.	..	..	16.9	..
3.3 KV.	..	..	..	..
Total	54.6	..	580.6	135.5
II. Low-tension lines				
	123.8	..	624.8	..

* Includes 2.8 miles of 3.3 KV. lines converted into 11 KV. lines.

Net increase in mileage during the year amounted to about 52 miles of high-tension lines and 124 miles of low-tension lines.

68. *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 for the past five years is furnished below:—

Year.	Number of station.	Aggregate capacity.
1948-49	10	51,000 KVA.
1949-50	12	55,475 KVA.
1950-51	13	72,725 KVA.
1951-52	13	73,225 KVA.
1952-53	11	76,825 KVA.

69. *Distributions.*—Thirty numbers distribution transformers with an aggregate capacity of 1,705 KVA. were erected during the year bringing the total number of distribution transformers in service at the end of the year to 299 numbers and the aggregate capacity to 16,330 KVA.

70. *Commercial activities.*—There has been an ever-increasing demand for power in the areas of the system. Many services could not be connected due to unsatisfactory power position created by low water conditions.

Proposals amounting to about Rs. 24 lakhs involving supply to about 730 agricultural pump-sets and 25 numbers industrial services, etc., were finalized during the year. In addition the Kayattar scheme costing Rs. 34.98 lakhs in the first year rising Rs. 51.67 lakhs in the 5th year was finalized.

The Singampatti and Kallupatti extensions were energised in September and August 1952, respectively.

Extension for giving high-tension supply to Messrs. Virudunagar textiles was completed.

The Kochodi distribution was energised.

Work on several major extension schemes had to be deferred on account of the financial stringency.

71. *Agricultural services.*—Three hundred and eighty-three agricultural pump-sets with a connected load of 1,217 KW. were connected up during the year bringing the total number of pump-sets connected at the end of the year to 1,875 with a connected load of 5,912 KW. as against 1,492 with a connected load of 4,695 KW. at the end of 1951-52. Inclusive of 174 agricultural pump-sets with a connected load of 633 KW. taken over from the acquired undertakings, the total number of agricultural pump-sets in service at the end of 1952-53 was 2,049 with a connected load of 6,545 KW.

72. *Rural welfare.*—Proposals amounting to Rs. 12.09 lakhs were sanctioned under the Firka Development Scheme during the year under review.

Proposals amounting to Rs. 1.47 lakhs in the Tirumangalam firka, Rs. 5.07 lakhs in the Pannikundu firka, Rs. 1.12 lakhs in the Kunnathur firka, Rs. 0.08 lakh in Kalligudi firka, Rs. 1.35 lakhs in Malli firka and Rs. 4.08 lakhs in Sankarankoil firka were evolved.

Considerable progress was made in the Firka schemes already sanctioned and taken up for execution.

73. *Meter, relay tests and special maintenance.*—Twenty-eight distribution transformers were overhauled. Three thousand nine hundred and sixty high-tension and low-tension meters, 162 numbers relays and 47 oil circuit breakers were tested, 3,400 gallons of oil were reconditioned and 1,240 samples of oil were tested.

74. *Interruptions.*—There were no serious interruptions during the year except the following two:—

(1) There was a breakdown on the Madurai-Coimbatore 66 KV. numbers 1 and 2 feeders on 16th May 1952 due to ground-wire slipping from a cone joint and getting twisted with power conductors between towers 768 and 769 with interruption of supply from 16-30 hours on 16th May 1952 to 9-41 hours on 17th May 1952.

(2) There was an interruption of about 6 hours 20 minutes to supply to Messrs. Meenakshi Mills, Madurai, due to electrocution of a squirrel on consumer's 11 KV. bus.

75. *Programme for 1953-54.*—The extension schemes already sanctioned will be in full swing provided capital loan contributions from the consumers are forthcoming.

Work of changing of power transformers to those of higher capacity units at the following sub-stations will be taken up:—

- (1) Pasumalai.
- (2) Rajapalayam.
- (3) Sattur.
- (4) Koilpatti.
- (5) Tuticorin.
- (6) Tenkasi.
- (7) Sivaganga.

MADRAS SYSTEM—GENERATION CIRCLE.

76. *General*—The operation and maintenance of the three power stations at Madras, viz., 'A' station, 'C' station and Villivakkam station during this the 5th year of operation of the system under Government management was satisfactory.

The peak load of the Madras system reached 30,200 KW. as against 29,300 KW. in 1951-52. The number of units generated in the three power stations of the system during the year was 152.17 millions as against 135.56 million units in the previous year.

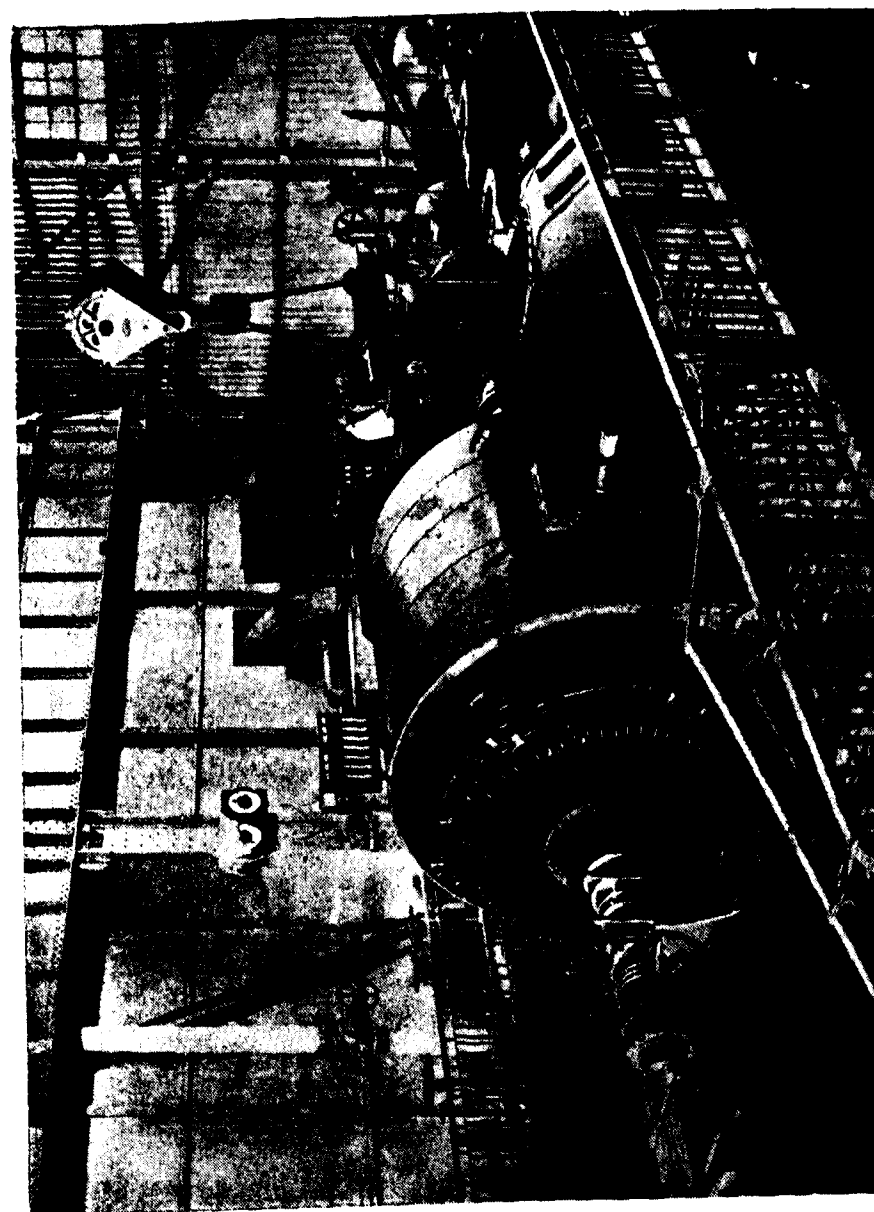
Two boilers of 80,000 lb./hour each were commissioned at 'B' station under the Madras Plant Extensions now in progress in May 1952 and November 1952, respectively.

The first 15 MW. turbo-generator under the Madras Plant Extension was put on commercial load on 14th March 1953 by the suppliers but unfortunately they had to take it out of commission on 29th March 1953 due to failure of the turbine.

The 'C' station and Villivakkam emergency station continued to be in service during the year. The latter was run only during emergencies. The peak load on the two stations was 4,600 KW. and 1,300 KW. respectively.

The coal stock position was satisfactory till November 1952, but later deteriorated owing to increased consumption and short supplies. Necessary steps were taken to improve the position.

Madras exported power to Mettur during the summer months of April and May 1952 and availed relief from Mettur during June-August 1952 when the water position at Mettur improved. During September again Madras



SHOWING THE 15. MW SET UNDER ERECTION AT BASIN BRIDGE "B" POWER STATION, MADRAS

exported power due to poor storages in the hydro-systems but in October Madras could again get some relief from Mettur. During November Madras availed relief only during evening peak load periods but returned the units availed to the hydro-system during off peak load hours. From December 1952 onwards due to the adverse water conditions at Mettur, Madras again began giving relief to Mettur to the maximum extent possible with available plant capacity.

77. *Power stations.*—Two boilers each of 80,000 lb./hour capacity were commissioned, one in May and the other in November 1952 in the 'B' station. The boiler capacity of the stations increased thereby from 426,000 lb./hour to 586,000 lb./hour.

The salient features of operation of the three stations are detailed below:—

'A' Station.

The peak load of the station for the year was 25,000 KW. Owing to failure of Stator winding insulation and consequent flash over, the No. 7 unit (12,500 KW. set) at 'A' station went out of commission on 3rd September 1952. Necessary action was taken to recondition the set and it is likely to go back into service by September 1953.

The No. 5-6,000 KW. set which was under overhaul since May 1951 was commissioned on 29th August 1952.

During January and February 1953 there were frequent snappings of the ash conveyor chain which had worn out badly. The chain was renewed on 26th February 1953.

The overhaul of boilers 1, 2, 3 and 4 was completed in July 1952. Overhaul of boiler No. 7 was completed in January 1953. Overhaul of boiler No. 8 was nearing completion in February 1953.

'B' Station (Madras Plant Extension Scheme).

In this power station under erection, two boilers of 80,000 lb./hour capacity were commissioned as already stated, one in May 1952 and the other in November 1952 respectively. As the boilers were commissioned in advance of the turbo-set, these boilers were made to feed steam to the turbo-sets at 'A' station through a pressure reducer and desuperheater whose capacity, however, was limited to 80,000 lb./hour.

The first 15 MW. turbo-alternator set under the Plant Extensions was put on commercial load on 14th March 1953 by the suppliers. Unfortunately, they had to take it out of commission on 29th March 1953 due to failure of turbine. Necessary steps were taken by them to put the set back into service which is expected by about August 1953.

'C' Station.

This station with the No. 2-2,500 KW. transportable sets continued to be in service during the year. The peak load of the station for the year was 4,600 K.W.

On May 7th, the south set had to be taken out of commission as a number of boiler tubes suddenly developed leaks. The tubes were repaired and the set put back into service on May 31st.

The north set was taken out for overhaul on 8th July 1952 and re-commissioned on 9th September 1952.

ADMINISTRATION REPORT OF THE

Villivakkam Emergency Station.

The operation and maintenance of this station was satisfactory. This station was run only during emergencies and the peak load of the station was 1,300 KW.

78. *Load development.*—There was rapid growth of load as in the previous year even with the continuance of peak load hour restrictions on Messrs Buckingham and Carnatic Mills and other power consumers. A relief of 2,000 KW to 3,000 KW was found necessary to meet the system demand during peak load hours and this was generally availed from the hydro system. The table below indicates the growth of the load since the undertaking was taken over by Government:—

Year	Peak load system.	Total units generated in millions.
1947-48	21,900*	54.95*
1948-49	25,400	102.07
1949-50	24,700†	108.00
1950-51	27,800	120.79
1951-52	29,300	135.56
1952-53	30,200	152.17

* The figures pertain only to the period 29th August 1947 to 31st March 1948.
† Reduction in peak due to peak load restriction.

During the year 16.869 million units were exported to Mettur as against an import of 9,775 million units from Mettur.

Shedding of load had to be resorted to on several occasions during the year when the demand exceeded the safe capacity of the plant.

The table below indicates the thermal and boiler house efficiencies of 'A' station during the five years under Government management:—

Year.	Thermal efficiency. PER CENT.	Boiler house efficiency. PER CENT.
1948	15.00	65.9
1949	14.40	64.4
1950	14.95	65.43
1951	16.68	74.98
1952	16.94	75.63

79. *Madras plant extensions.*—Two boilers of 80,000 lb./hour capacity each were commissioned, the first in May 1952 and the other in November 1952. The new 15 MW turbo-set will be re-commissioned as early as possible. Work under second stage extension is expected to be in full swing during the year.

80. *Madras-Mettur Interconnexion scheme.*—Consequent on the abolition of the transmission line construction division at Kancheepuram, the following work was transferred to the Generation circle with effect from 7th May 1952:—

(1) *Villivakkam (Korattur) 33/110 KV. sub-station.*—Balance of electrical and civil works.

(2) *Kancheepuram sub-station.*—Balance of electrical and civil works.

(3) Balance of civil works at Wallajahad, Puttur and Chingleput sub-stations under Kancheepuram-Chingleput-Arkonam Extensions.

The above works have been completed. The work of erection of two synchronous condensers of 5,000 KVA each at Villivakkam sub-station was in full swing.

The new Kancheepuram sub-station has been commissioned at 66 KV.

81. *Programme for 1953-54.*—The erection of the first stage Madras Plant Extensions with the 15 MW set, 3 boilers of 80,000 lb./hour each with their connected equipment is expected to be completed in all respects by the middle of 1953-54. Work under second stage extensions is expected to be in full swing.

The erection of the synchronous condensers and their control equipments and panels at Villivakkam sub-station will be completed and the Madras-Mettur line will operate at 110 KV with the condensers at Villivakkam commissioned.

The construction of an oil house at Kancheepuram sub-station will be in progress.

The construction of quarters at Chingleput will also be in progress.

MADRAS SYSTEM—DISTRIBUTION CIRCLE.

82. *General.*—The year under review is the fifth year of operation under Government management. The operation and maintenance of the distribution and sub-stations of the system were satisfactory.

Peak load restrictions on low-tension consumers prohibiting them from working between 5-30 p.m. and 9-30 p.m., first imposed in 1949-50 continued to be operative during the year. Peak load restriction on the Buckingham and Carnatic Mills, the biggest block load of the system, had also to be continued due to power plant capacity being inadequate.

Due to the failure of the monsoons and the consequent adverse water conditions, restrictions and cuts had to be imposed on consumers in the Chingleput area of the Madras System who are being supplied from the Mettur Electricity System.

The Chingleput-Kancheepuram-Arkonam Extensions with the three sub-stations at Palur, Walajabad and Chingleput (except civil works) were transferred to this circle from Construction branch.

Two thousand eight hundred and sixty-eight services were connected up during the year. In addition 749 D.C. services were changed over to A.C. on a voluntary basis, i.e., the consumer making his own arrangements for changing his appliances to suit A.C. supply.

One hundred and seventy-seven agricultural pump-sets with a connected load of 1,227 KW were connected up during the year bringing the total number of agricultural services to 667 with a connected load of 3,377 KW.

Electricity was extended to 13 villages during the year.

The gross revenue for the year was Rs. 153.92 lakhs compared to Rs. 139.59 lakhs in the previous year.

83. *Load development.*—The peak load of the system reached 30,200 KW as against 29,000 KW in 1951-52. The table below indicates the growth of load and revenue since acquisition by Government of the undertaking on 29th August 1947:—

Year.	Peak load in KW.	Units generated in millions.	Gross revenue. RUPRES. IN LAKHS.
1947-48	21,900 *	54.95 *	40.75 *
1948-49	25,400	102.07	80.04
1949-50	24,700†	108.00	94.03
1950-51	27,800	120.79	116.13
1951-52	29,300	135.56	139.59
1952-53	30,200	152.17	155.2

* The figures refer only to the period 29th August 1947 to 31st March 1948.
† Reduction in peak due to peak load restrictions.

84. *Financial results.*—The financial results of the system are indicated in the statement below:—

	RS.
Total capital outlay	4,83,58,856
Gross revenue	1,55,12,020
Operation and maintenance excluding suspense.	1,07,61,819
Depreciation Reserve Fund	20,98,999
Special reserve	3,80,506
Total expenses	1,32,21,324
Net revenue	22,90,696

NOTE.—The capital outlay includes the power stations incharge of the Generation Circle.

85. *Connected load and number of consumers.*—The details of connected load are given below classified under different categories:—

Serial number and details.	Total to end of March 1953.	
	Number of consumers.	Total load in KW.
I. High-tension supplies—		
(a) Textiles	2	8,976
(b) Oil industries	2	723
(c) Other industries	2	60
(d) Licensees	1	1,393
(e) Miscellaneous	55	13,231
(f) Water works	3	1,280
(g) Traction	2	20,322
(h) Railway	1	
(i) Street lighting	1	721
Total	69	46,706

II. Low-tension supplies—		
(a) Industrial	2,679	14,977
(b) Irrigation and agriculture	1,254	6,304
(c) Domestic (heat, power and lighting)	32,707	38,727
(d) Commercial (heat, power and lighting)	5,734	
(e) Public lighting	20	118
(f) Miscellaneous	559	3,118
Total	42,953	63,244
Kancheepuram and Tiruvallur rural	902	2,850
Kancheepuram and Tiruvallur undertakings	4,371	3,572
Grand total	48,295	116,372

The total connected load of the system at the end of the year was 116,372 KW compared to 108,674 KW in 1951-52.

86. *Transmission lines, sub-stations and distributions.*—Details of the total mileage of transmission and distribution lines constructed during the year and as at the end of the year are given below:—

Serial number and particulars of line.	Constructed and otherwise added during 1952-53.	Total at the end of 1952-53.
(1)	(2) MILES.	(3) MILES.
A. H.T. lines—		
1 110/66 KV lines— (Overhead)	..	66.5 *
2 33 KV lines— (Overhead)	7.5	71.9
3 33 KV lines— (Underground)	..	2.0
4 11 KV lines— (Overhead)	18.1	129.0
5 11 KV lines— (Underground)	1.0	12.9
6 6.6 KV lines— (Overhead)	1.0	8.6
7 6.6 KV lines— (Underground)	..	0.6
8 5 KV lines— (Overhead)	(—) 6.6	4.4
9 5 KV lines— (Underground)	0.1	121.5
Total	21.1	417.4
B. L.T. lines—		
1 Overhead	40.2	468.4
2 Underground	13.9	247.2
Total	54.1	715.6

* Last year's figure reported as incorrect.

Net increase in mileage during the year amounted to 21 miles of high-tension lines and 54.1 miles of low tension lines.

The tabular statement below gives the number of sub-stations and their capacities at the end of the year:—

Serial number and particulars.	At the end of 1951-52.		At the end of 1952-53.	
	Number.	Installed capacity.	Number.	Installed capacity.
(1)	(2)	(3)	(4)	(5)
1 110/66 KV sub-stations	2	15,500 KVA	2	23,000 KVA
2 33 KV sub-stations	12	13,600 "	12	18,000 "
3 Rotary converter stations	6	13,500 KW	6	13,500 KW
4 Rectifier stations	6	4,000 "	6	4,000 "
5 Distribution transformer stations including static sub-stations and 33 KV/400 volts sub-stations.	232	23,159 KVA	255	24,767 KVA
Total capacity	258	17,500 KW 52,259 KVA	281	17,500 KW 65,767 KVA

NOTE.—This does not include the step-up transformers at Basin Bridge Power House.

87. *Extensions.*—One hundred and thirteen extension proposals costing Rs. 4.40 lakhs were sanctioned by the Superintending Engineer, 74 proposals costing Rs. 38;66 lakhs were sent up to Chief Operation Engineer or Chief Engineer or Government as the case may be for sanction.

The following are some of the more important extensions completed during the year:—

- (1) 33 KV Korattur-Poonamallee line.
- (2) Madananthapuram Extensions.
- (3) Chellarpet Extensions, Chingleput district.
- (4) Ikkadu Extensions, Tiruvallur taluk.
- (5) Tirukkalkundram Extensions, Chingleput district.
- (6) Perugalathur and Varadarajapuram Extension.
- (7) Extension of supply to Coach Building Factory.

High tension supply was effected to the following consumers:—

- (1) High-tension supply to Madras Pencil Factory.
- (2) High-tension supply to Law College Pumping Station.
- (3) High-tension supply to Messrs. Printers, India.
- (4) High-tension supply to Revathi Studios.
- (5) High-tension supply to Messrs. St. Joseph Industries, Basin Bridge.

88. *Commercial activities.*—The demand for power for domestic, industrial and agricultural purposes was as heavy as last year, but due to restricted budget provision for the system a 'go slow' policy was adopted in respect of new service connection to the extent funds were available.

89. *Agricultural services.*—One hundred and seventy-seven agricultural pumpsets with a connected load of 1,227 KW were connected up during the year inclusive of 70 Agricultural pumpsets with a connected load of 313 KW taken over from the Kancheepuram licensee, 65 Agricultural pumpsets with a connected load of 316 KW taken over from the Tiruvallur licensee and 452 Agricultural pumpsets with a connected load of 2,298 KW transferred from the Mettur System and added, the total number of Agricultural pumpsets in service at the end of 1952-53 was 1,254 with a connected load of 6,304 KW.

Supply of electricity was extended to 13 villages.

90. *Rural welfare.*—Supply of power to Punapakkam and Ikkadu villages in the Tiruvallur firka was sanctioned.

Proposals for supply of power to Pugathur and Kalyanakuppam villages in the Tiruvallur firka and Pattacherumbudur, Pandur, Nemilnagaram, Attukuppam and Vidaryur villages in Pandur firka have been sent up for sanction.

Fourteen agricultural services totalling 132 KW and 3 numbers domestic services of 0.7 KW have been connected up in Kadambathur and Tiruvallur firka areas.

91. *Programme for 1953-54.*—Improvement to the City distribution sanctioned under Madras Plant Extensions will be in progress.

Extensions already sanctioned and under execution will be continued. The programme for 1953-54 for extension under distribution of power will mostly depend upon voluntary loans from beneficiaries.

ANDHRA POWER SYSTEM.

92. *General.*—The operation and maintenance of all the generating stations and connected equipment of the Andhra Power System comprising the steam electric stations at Visakhapatnam and Vijayavada (supplemented by diesel engines at both the places to augment the generating capacity) and the diesel stations at Kakinada, Rajahmundry, Srikakulam, Narasannapeta, Narasaraopet and Ongole was satisfactory.

Vijayavada supply was made available to Narasaraopet and Ongole on 30th June 1952 and 1st January 1953, respectively.

Rajahmundry and Kakinada areas were also being supplied with Vijayavada power, the diesel sets in these two places being run only during peak-load hours.

Two numbers 224 KW Deutz Siemens diesel generating sets were erected on 13th October 1952 at the Kakinada power-house in lieu of the two old 80 KW sets and commissioned.

Four hundred and fifty-eight numbers agricultural services with a connected load of 1,579 KW were connected up during the year bringing the total number to 1,191 with a total connected load of 4,226 KW.

1. VISAKHAPATNAM THERMAL SUPPLY AREA (COMPRISING VISAKHAPATNAM SRIKAKULAM AND NARASANNAPETA STATIONS).

(1) Visakhapatnam Station.

93. *General.*—The year under review is the fourteenth year of operation. The peak-load demand on the steam and diesel stations was 4,500 KW and 1,200 KW respectively. 19;216 million units were generated in 1952-53 as against 15;96 millions in 1951-52.

94. *Power-house.*—The operation and maintenance of the power-house was satisfactory. The No. 3—1,500 KW turbo-set which was under overhaul was commissioned into service on 4th September 1952. Overhaul of the second 1,500 KW set was in progress. Eighty per cent of the materials for the sixth 22,000 lb./hour boiler were received and the foundation for the third chimney was being laid.

95. *Load development.*—The table below indicates the growth of load and revenue during the fourteen years of operation of the system:—

Year.	Peak load in K.W.	Units generated in millions.	Gross revenue.
			RUPEES 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
1951-52	4,500	15.96	13.59
1952-53	{ Steam 4,500 } { Diesel 1,200 }	19.22	18.23

96. *Connected load.*—The connected load under different categories at the end of the year was as below:—

Particulars.	Number of consumers.	Connected load in K.W.
I. High-tension supplies—		
(a) Textiles	..	..
(b) Cement	..	..
(c) Chemicals	2	157
(d) Mining (manganese)	2	306
(e) Ship building	1	3,178
(f) Oil and other refineries	2	379
(g) Sugar	2	314
(h) Tea estates	..	..
(i) Licenses	6	4,732
(j) Jute Mills	1	1,887
(k) Miscellaneous	1	1,058
Total ..	17	12,011
II. Low-tension supplies—		
(a) Industrial	147	1,520
(b) Agricultural	40	219
(c) Domestic light and power	3,603	1,862
(d) Commercial light and power	570	109
(e) Street lighting	6	27
(f) Public water-works	..	..
(g) Miscellaneous	8	197
Total ..	4,374	3,934
Grand total ..	4,391	15,945

The total connected load at the end of the year was 15,945 KW compared to 15,194 KW at the end of 1951-52.

97. *Transmission lines, sub-stations and distributions.*—

Voltage.	Constructed during 1952-53.		Total in service at the end of 1952-53.	
	Single circuit in miles.	Double circuit in miles.	Single circuit in miles.	Double circuit in miles.
High-tension lines—				
33 KV.	30.03	..	85.13	2.6
11 KV.	7.40	(—) 8.1	155.40	2.6
Total ..	37.43	(—) 8.1	240.53	5.2
Low-tension ..				
	10.04	..	85.08	..

Net increase in mileage during the year amounted to 29.33 miles of high-tension lines and 10.4 miles of low-tension lines.

The number of high-tension transformer stations at the end of the year was 5 with an aggregate capacity of 7,550 KVA and the number of distribution transformers in service was 61 with an aggregate capacity of 3,395 KVA.

98. *Extensions.*—The 11 KV Penubarthi-Bobbili line was changed over to 33 KV operation with two numbers 500 KVA 33/11 KV transformers commissioned at Bobbili sub-station.

Two numbers 500 KVA transformers were also commissioned at Nellimarla sub-station.

99. *Agricultural services and rural industries.*—Eleven numbers agricultural services with a connected load of 47 KW and 24 rural industries with a connected load of 54.6 KW were connected up during the year. The total number of agricultural services at the end of the year was 40 with a connected load of 219 KW.

(2) Srikakulam Station.

100. *General.*—This was the second year of operation under Government management. The peak load reached 124 KW and 0.236 million units were generated.

101. *Power house.*—The power house was giving satisfactory service. The erection of the 290 KW MAN/AEG diesel generating sets was in progress.

102. *Transmission lines.*—0.52 miles of low-tension line have been added during the year bringing the total mileage of low-tension lines in service at the end of the year to 14.52 miles.

103. *Agricultural service.*—There was one agricultural service with a connected load of 4 KW at the end of the year.

(3) Narasannapeta Station.

104. *General.*—The peak load during the second year of operation under Government management reached 21.76 KW and 0.036 million units were generated.

105. *Power house.*—The engines in the power-house were maintained in a good condition and they were giving satisfactory service.

106. *Transmission lines.*—There were 3 miles of low-tension lines in service at the end of the year.

107. *Connected load of both Srikakulam and Narasannapeta stations.*—

Particulars.	Number of consumers.	Connected load in KW.
L.T. Supplies—		
(a) Domestic light and heat	626	224
(b) Commercial light and heat	235	10
(c) Industrial	14	126
(d) Street lighting	2	12
(e) Agricultural	1	4
Total ..	878	376

108. *Financial results of Visakhapatnam thermal area.*

	RS.
(1) Total capital outlay	91,45,783
(2) Gross revenue	18,23,405
(3) Operation and maintenance	15,84,351
(4) Depreciation reserve fund	2,36,953
(5) Special reserve fund	78,300
(6) Total expenditure	18,99,604
(7) Net revenue	—76,199

2. VIJAYAVADA THERMAL SUPPLY AREA (COMPRISING VIJAYAVADA, KAKINADA, RAJAHMUNDRY, NARASARAOPET AND ONGOLE STATIONS).

(1) Vijayavada Station.

109. *General.*—During this the fourteenth year the peak-load of the system rose to 9,487 KW as against 8,309 KW in the previous year.

The peak-load on the steam station was 9,487 KW while that on the diesel station was 660 KW. 47.717 million units were generated during 1952-53 as against 30.90 millions in 1951-52.

110. *Power house.*—The operation and maintenance of the boilers and generating equipment was satisfactory. The mechanical coal handling plant was commissioned in the steam station in December 1952.

111. *Load development.*—The growth of peak load and revenue since the commencement of operation is shown in the statement below :—

Year.	Peak load in KW.	Units generated in millions. KW.H.	Units purchased from Messrs. Kistna Cement Company. KW.H.	Gross revenue. RUPEES IN LAKHS.
1938-39	530	..	..	..
1939-40	1,540	4.08	..	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	15.22
1951-52	8,309	30.90	..	19.06
1952-53	9,487	47.72	0.083	26.67

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

112. *Connected load.*—The table below indicates the connected load under different categories at the end of the year :—

Particulars.	Number of consumers.	Connected load in KW.
I. High-tension supplies—		
(a) Textiles	..	..
(b) Cement	1	2,521
(c) Chemicals	1	34
(d) Sugar	2	1,300
(e) Licensees	5	7,696
(f) Municipalities	6	4,326
(g) Miscellaneous	3	732
(h) Government departments	1	20
Total ..	19	16,719
II. Low-tension supplies ..		
(a) Industrial	171	2,112
(b) Agricultural	1,048*	3,502
(c) Domestic heat and light	4,342	3,204
(d) Commercial heat and light	185	66
(e) Street lighting	38	62
(f) Water-works	1	4
(g) Miscellaneous	1	5
Total ..	5,786	8,955
Grand total ..	5,805	25,674

* Last year's figure reported as incorrect.

The total connected load at the end of the year was 25,674 KW compared to 18,923 KW in the previous year.

113. *Transmission lines, sub-stations and distributions.*—The table below indicates the total mileage of transmission and distribution lines in service at the end of the year :—

Voltage.	Constructed during 1952-53.		Total at the end of 1952-53.	
	Single circuit.	Double circuit.	Single circuit.	Double circuit.
	MILES.	MILES.	MILES.	MILES.
66/110 KV	..	..	99	..
33 KV	..	..	114.8	5.8
11/33 KV	152.4	..	220.4	..
11 KV	114.1	..	275.5	..
Total ..	266.5	..	709.7	5.8
L.T. lines ..	154.9	..	395.9	..

Net increase in mileage during the year amounted to 266.5 miles of high-tension lines and 154.9 miles of low-tension lines.

There were 9 high-tension sub-stations with an aggregate capacity of 12,200 KVA and 169 distribution transformers with an aggregate capacity of 9,978 KVA in service at the end of the year.

114. *Extensions.*—(1) The 33 KV Chirala-Ongole extensions were completed and energised on 1st January 1953 at 11 KV, extending Vijayavada supply to Ongole.

(2) The 33 KV Guntur-Narasaraopet line was completed and energised at 11 KV on 30th June 1952 and the Narasaraopet power-house shut down.

(3) High-tension supply to Andhra Sugars, Tanuku, was effected on 9th December 1952.

(4) The Nutakki-Pedapalem scheme was completed.

115. *Agricultural services and rural industries.*—Three hundred and ninety agricultural services with a connected load of 1,250 KW and 60 rural industries with a connected load of 585 KW were connected up during the year. The total number of agricultural services in service at the end of the year. The total number of agricultural services in service at the end of the year 163 with a connected load of 1,923 KW.

(2) *Kakinada Station.*

116. *General.*—The peak load of the system reached 910 KW as against 1,020 KW in the previous year. 0.612 million units were generated as against 2.36 million units in the previous year. The decrease in the number of units generated is due to the operation of the power-house only during peak load hours consequent on power from Vijayavada station being distributed in the area through Vijayavada-Rajahmundry lines.

117. *Power-house.*—The power position improved to some extent by the installation of 2 numbers 224 KW Deutz sets in place of 2 numbers old 80 KW sets.

Erection of the 300 KW Krupp set on the new foundation was completed and the set put into service on 25th August 1952.

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118. *Load development.*—The growth of load and revenue of the system since commencement of operation is furnished in the table below:—

Year.	Peak load in KW.	Units generated in millions KW.	Gross revenue. RUPEES IN LAKHS.
1940-41	325	0.77	0.47
1941-42	360	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
1951-52	1,020	2.36 + 0.041 *	6.22
1952-53	910	0.612 + 2.501 *	7.88

* Units supplied from Vijayavada Thermal station.

119. *Connected load*—

Particulars.	Number of consumers.	Total connected load in KW.
I. High-tension supplies—		
(a) Sugar	1	120
(b) Other industries	1	133
Total	2	253
II. Low-tension supplies—		
(a) Industrial	235	1,882
(b) Agricultural	98	483
(c) Domestic heat and light	4,430	2,108
(d) Commercial heat and light	367	152
(e) Street lighting	13	84
(f) Public water-works	10	152
(g) Miscellaneous (railways)	6	25
Total	5,209	4,880
Grand total	5,211	5,139

The total connected load at the end of the year was 5,139 KW as again 4,138 KW at the end of 1951-52.

120. *Transmission lines, sub-stations and distributions*—

Voltage.	Constructed during 1952-53.		Total in service at the end of 1952-53.	
	Single circuit.	Double circuit.	Single circuit.	Double circuit.
	MILES.	MILES.	MILES.	MILES.
132 KV/33 KV	8	..	8	..
66/33 KV	8	..	8	..
33 KV	1	..	44	..
11/33 KV	..	..	3	..
11 KV	18	..	137	..
3.3 KV	..	..	4	..
Total	35	..	201	..
Low-tension lines	70	..	162	..

Net increase in mileage during the year amounted to 35 miles of high tension lines and 70 miles of low-tension lines.

The number of distribution transformer stations at the end of the year was 64 with an aggregate capacity of 3,895 KVA as against 55 with a capacity of 3,240 KVA at the end of the previous year.

121. *Agricultural services and rural industries.*—Fifty-seven agricultural services with a connected load of 282 KW were connected during the year, bringing the total number to 98 with a connected load of 483 KW. This is exclusive of one agricultural service with a connected load of 7 KW taken over from the Kakinada licensee. Nineteen industrial services with a connected load of 135 KW were connected up during the year.

122. *Extensions.*—High-tension supply was effected to Messrs. Deccan Sugar and Abkari, Limited, at Samalkot.

Supply was extended to Uppada, Salluru, Chodavaram and Narasapurapeta, Tapeswaram, Burelanka and Kadiapulanka villages.

(3) *Rajahmundry Station.*

123. *General.*—The peak load demand reached 620 KW. The station was inter-connected to Vijayavada system and the engines in the power-house run only during peak load hours. The units generated amounted to 0.539 million. 1.641 million units were availed from the Vijayavada system.

(4) *Ongole Station.*

124. *General.*—This is the second year of operation under Government management. The peak load reached 136 KW. 0.206 million units were generated. On the completion of the Bapatla-Chirala-Ongole line, Vijayavada power was given to Ongole and surroundings.

125. *Power-house.*—Two numbers 200 KW National G.E.C. sets are under erection. The diesel station was run only during peak load hours from 18th March 1953 while Vijayavada power supply was utilized for the rest of the day.

126. *Connected load*—

Low-tension services.		Number of consumers.	Connected load in KW.
(a) Industrial	..	18	122
(b) Domestic heat and light	..	606	319
(c) Commercial heat and light	..	24	1
(d) Street lighting	..	1	21
(e) Agricultural	..	1	11
Total	..	650	474

There were 2.2 miles of high-tension lines and 17.13 miles of low-tension lines in the area.

(5) *Narasaraopet Station.*

127. *General.*—The peak load reached was 90 KW and the units generated were 47,404.

128. *Power-house.*—Vijayavada power supply was made available from 30th June 1952 by energising the 33 KV line from Guntur and the power-house was closed down.

Consequent on Vijayavada power becoming available the two numbers 85 KW. sets in the power-house were proposed to be diverted for use elsewhere.

129. *Connected load*--

Low-Tension supplies.	Number of consumers.	Connected load in KW.
(a) Industrial	17	83
(b) Domestic heat and light	806	117
(c) Street lighting	1	11
(d) Agricultural	3	7
Total ..	827	218

130. *Transmission lines*.--There were 14.55 miles of low-tension lines in the area.

131. *Financial results of Vijayavada thermal supply area*--

	RS.
1 Total capital outlay	2,30,89,746
2 Gross revenue	39,40,428
3 Operation and maintenance	35,76,287
4 Depreciation reserve fund	3,41,495
5 Special reserve fund	48,335
6 Total expenditure	39,66,117
7 Net revenue	-25,689

132. *Rural Welfare schemes in the Andhra area*--*Pendurti Firka*.--Supply to Gurrampalem village was effected during the year.

All works in the Pendurti firka scheme as sanctioned in 1948 were completed.

Rajahmundry Firka.--Supply to Kadurapulanka, Burilanka and Jaggampadu villages was effected during the year.

Dendulur Firka.--Supply to Jagannadhapuram, Chalchuthalapadu, Pedavegi and Polasanapalli villages was effected.

133. *Programme for 1953-54*--

(1) The third chimney and sixth boiler will be erected at the Visakhapatnam power-house.

(2) The 33 KV. sub-station at Garbham under the Parvathipur-Bobbili scheme will be commissioned.

(3) One 290 KW. set will be erected at Srikakulam power-house and erection of another 200 KW. set will be in progress.

(4) 11 KV. line to Narasannapeta will be completed and power-house at Narasannapeta will be closed down.

(5) 33 KV. sub-stations at Chirala and Ongole will be commissioned.

(6) Two numbers 200 KW. diesel sets at Ongole will be commissioned.

In addition work on extension of supply to several villages in Biccavolu--West Godavari and other areas will be taken up.

RAYALASEEMA POWER SYSTEM.

- 134. *General*.--This is the second year of operation of this system which covers (1) the thermal (steam) station at Nellore, (2) the diesel stations at Kurnool, Cuddapah, Anantapur, Proddatur, Sandur, Nandyal and Tadpatri, (3) parts of Bellary and Anantapur districts receiving supply from the Jog Hydro-Electric Scheme of the Government of Mysore, and (4) the distribution in Hindupur area receiving 25 cycles supply from the Sivasamudram Hydro-Electric Scheme of the Mysore Government.

The operation and maintenance of the generating stations, sub-stations and transmission and distribution lines of the system was generally satisfactory.

By making temporary arrangements at Bellary sub-station the operation of Bellary-Guntakal line was changed over from 11 KV to 66 KV resulting in improved supply voltage conditions at Guntakal with effect from 8th June 1952.

Supply of electricity was extended to (i) Obalapuram and Hirehal off the Bellary-Rayadrug line, (ii) Yemmiganur from Adoni, (iii) Konakundla from Guntakal, (iv) Tagginabudhahala village from Bellary, (v) additional loads at Mothukupalli and Moda villages in Hindupur area, (vi) Nellatur village in Nellore area, and (vii) ten mica mines in the Gudur area fed off Nellore thermal station.

Due to adverse water conditions Mysore Government introduced a cut of 40 per cent in the Hindupur area imposed by them on all supplies from Sivasamudram Hydro-Electric Scheme from January 1953 but reduced this cut to 10 per cent from March 1953 when the bulk of Bangalore supply was changed over to Jog.

The peak load demand of Ceded District Scheme at Sokke point of supply reached 3,930 KW. during March. Inasmuch as the limit of supply of 4,000 KW agreed to be given by Mysore at this point is likely to be reached within a short time action is being taken to obtain an additional supply of 2,500 KW from Mysore for distribution in Ceded districts and an additional 1,500 KW for supply to the Hyderabad Government as desired by them at Hospet dam site.

The erection of two 200 KW. diesel generating sets one at Kurnool and the other at Anantapur was nearing completion.

Erection of two 290 KW diesel generating sets at Proddatur and two similar units at Madanapalle was in progress. One 224 KW set proposed to be erected at Nandyal has been received at site.

The number of agricultural pumpsets to which supply was effected was 169.

Thirty-four extension schemes costing Rs. 97.49 lakhs were sent up for sanction.

Thirty-five schemes amounting to Rs. 66.91 lakhs were sanctioned during the year.

Eight hundred and twenty-six old single phase meters, 2,669 new single phase meters, 43 new polyphase meters, 9 old polyphase meters, 6 high-tension metering sets and 666 other equipments were tested, repaired or overhauled by the meter and relay test staff.

1. Ceded Districts Scheme.

135. *General.*—The equipments at the various sub-stations and transmission and distribution lines were maintained in a satisfactory condition. A peak demand of 3,930 KW was reached this year against 2,800 KW in 1951-52. 15.9 million units were purchased from Mysore as against 12.7 millions in the previous year.

136. *Load development.*—The following table gives the growth of load in the area:—

Year.	Peak load in KW.	Units purchased in millions.
1950-51	2,160	6.7
1951-52	2,800	12.7
1952-53	3,930	15.93

137. *Connected load.*—The table below indicates the number of consumers under various categories and their connected load at the end of the year:—

	Number of consumers.	Connected load in KW.
I. High-tension—		
(a) Textiles	1	480
(b) Cement work	..	..
(c) Sugar	1	120
(d) Oil industries	11	3,152
(e) Licensees	..	..
(f) Government departments	3	80
(g) Miscellaneous	..	..
(h) Water-works	..	..
Total	16	3,832
II. Low-tension—		
(a) Industrial	304	3,125
(b) Irrigation and agriculture	145	595
(c) Domestic lights and power	4,811	2,505
(d) Commercial power	221	697
(e) Street lighting	9	66
(f) Water-works	4	87
(g) Miscellaneous power	..	..
Total	5,494	7,075
Grand total	5,510	10,907

138. *Transmission lines and distributions.*—There were 110 miles of 66 KV lines, 62.5 miles of 33 KV lines, 132.13 miles of 11 KV lines and 162.24 miles of low-tension lines in service at the end of the year, against 81 miles of 66 KV, 42 miles of 33 KV, 145 miles of 11 KV and 138 miles of low-tension lines at the end of last year.

The number of extra high-tension and high-tension transformer stations was 8 with an aggregate capacity of 8,800 KVA against 8,250 KVA in the previous year. The total number of distribution transformers in service at the end of the year was 69 with an aggregate capacity of 5,805 KVA compared to 54 numbers and 4,405 KVA respectively at the end of 1951-52.

139. *Extensions.*—The Adoni-Yemmiganur 33 KV. line and Yemmiganur distribution were completed and energised on 4th November 1952.

The Guntakal-Konakondala 11 KV. line and the Konakondala distribution forming part of the Uravakonda Scheme were energised on 7th December 1952.

Obalapuram and Hirehal villages in the Bellary-Rayadrug line were electrified on 13th July 1952.

140. *Agricultural and rural industries.*—One hundred and four agricultural services with a connected load of 468 KW. were connected up during the year bringing the total number of services to 145 with a connected load of 595 KW. at the end of 1952-53.

2. Nellore Scheme.

141. *General.*—This is the third year of operation of the scheme. The operation and maintenance was generally satisfactory. A peak load demand of 1,225 KW. was reached during the year compared to 750 KW. in 1951-52. 4.7 million units were generated compared to 2.6 millions in the previous year.

The gross revenue earned during the year was Rs. 6.31 lakhs, compared to Rs. 3.01 lakhs in 1951-52.

142. *Financial results—*

	RS.
1 Total capital outlay	71,42,178
2 Gross revenue	6,31,491
3 Operation and maintenance excluding suspense.	8,89,062
4 Net revenue	(—) 2,57,571

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

	Number of consumers.	Connected load in KW.
High-tension supplies—		
(a) Mines	11	806
(b) Government departments	2	228
Total	13	1,029
Low-tension supplies—		
(a) Industrial	33	238
(b) Agricultural	21*	70
(c) Domestic heat and light	2,563	1,660
(d) Commercial heat and light	26	4
(e) Street lighting	2	82
(f) Water works	1	10
Total	2,646	2,064
Grand total	2,659	3,093

* Last year's figure reported as incorrect.

144. *Transmission lines and distributions.*—There were 32 miles of 33/66 KV. lines, 100.32 miles of 3.3 KV. and 11 KV. lines and 35.87 miles of low-tension lines against 10.5 miles of high-tension lines and 63.5 miles of low-tension lines at the end of 1951-52. There were 25 numbers distribution transformers with an aggregate capacity of 2,700 KVA. at the end of the year. Besides there is one sub-station at Gudur 33/11 KV. with an installed capacity of 3,000 KVA. comprising 2 × 1,500 KVA. units.

145. *Agricultural services and rural industries.*—Eleven agricultural services with a connected load of 41 KW. were connected up during the year.

3. Kurnool System.

146. *General.*—During this the seventh year of operation of the system supply was maintained satisfactorily. Most of the engines in the power house being old were giving trouble and their operation and proper maintenance were causing anxiety with even the newly erected 267 KW set giving trouble often.

The peak load was 360 KW. 1.26 million units were generated as against 1.07 millions in the previous year.

The gross revenue earned during the year was Rs. 2.49 lakhs compared to Rs. 1.98 lakhs in 1951-52.

147. *Power house.*—The erection of the new 200 KW set is nearing completion and the set is expected to be commissioned shortly.

148. *Load development.*—The development of load since the undertaking was taken over by Government is indicated below:—

Year.	Peak load in KW.	Units generated in millions.	Gross revenue rupees in lakhs.
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
1951-52	360	1.067	1.98
1952-53	360	1.256	2.49

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

Particulars.	Number of Consumers.	Connected load in KW.
I. High-tension supplies	..	..
II. Low-tension supplies—		
(a) Industrial	71	577
(b) Agricultural	3	8
(c) Domestic heat and light	1,473	611
(d) Commercial light and power	53	94
(e) Street lighting	1	25
(f) Water-works	1	14
Total	1,602	1,329

150. *Transmission lines and distributions.*—The length of transmission lines in service at the end of the year is furnished in the statement below:—

Voltage.	Constructed during the year.	Total at the end of the year.
9.3 KV.	..	3.5
11 KV.	6.7	7.2
Low tension	4.86	37.86

There were seven numbers distribution transformers with an aggregate capacity of 550 KVA in service at the end of the year. .

151. *Agricultural and industrial services.*—Two agricultural services with a connected load of 6.4 KW were connected up during the year.

4. Cuddapah System.

152. *General.*—This is the fifth year of operation of the system under Government management. The operation and maintenance were generally satisfactory. The peak load of the system was 270 KW compared to 200 KW in 1951-52. 0.89 million units were generated during the year as against 0.76 million in the previous year.

The gross revenue earned during the year was Rs. 2.26 lakhs as against Rs. 1.77 lakhs in 1951-52.

153. *Power house.*—The oil engines and connected generating equipments were giving satisfactory services during the year under review.

154. *Load development.*—The table below indicates the growth of load of the system:—

Year.	Peak load in KW.	Units generated in millions.
1949-50	150	0.47
1950-51	200	0.694
1951-52	200	0.76
1952-53	270	0.895

155. Connected load —

	Number of consumers.	Connected load in KW.
I. High-tension supplies	..	..
II. Low-tension supplies—		
(a) Industrial	34	269
(b) Agricultural	21 *	131
(c) Domestic heat and light	1,191	566
(d) Commercial light and power	209	50
(e) Street lighting	3	190
(f) Water works	2	33
(g) Miscellaneous	1	6
Total	1,461	1,245

* Last year's figure reported as incorrect.

156. *Transmission lines and distributions.*—There were 13.2 miles of high-tension lines and 30.57 miles of low-tension lines against 10.3 miles of high-tension lines and 26.8 miles of low-tension line in 1951-52. There were 10 numbers distribution transformers with an aggregate capacity of 622.5 KVA. in service at the end of 1952-53 against six number with 287 KVA. capacity at the end of 1951-52.

157. *Agricultural and industrial services.*—Eight numbers agricultural services with a connected load of 48.5 KW. were effected during the year.

5. Anantapur System.

158. *General.*—This is the fourth year of operation of the system under Government management. The peak load reached 235 KW as against 184 KW in 1951-52. 0.65 million units were generated compared to 0.43 million in the previous year.

The gross revenue earned was Rs. 1.54 lakhs compared to Rs. 1.00 lakh in 1951-52.

159. *Power-house.*—The operation and maintenance of the system in the power-house was satisfactory. The erection of the new 200 KW. diesel generating set at the power-house was completed and the set was expected to be commissioned shortly.

160. *Connected load.*—

	Number of consumers.	Connected load in K.W.
I. High-tension supplies	..	..
II. Low-tension supplies—		
(a) Industrial	34	234
(b) Agricultural	29	102
(c) Domestic light and power	1,097	287
(d) Commercial light and power	92	5
(e) Street lighting	1	12
(f) Water works	1	19
Total ..	<u>1,254</u>	<u>659</u>

161. *Transmission lines and distributions.*—There were 10.61 miles of high-tension lines and 21.29 miles of low-tension lines against 4.1 and 16.1, respectively at the end of 1951-52 and seven numbers distribution transformers with an aggregate capacity of 490 KVA. in service at the end of 1952-53.

162. *Agricultural and industrial services.*—Seventeen agricultural services with a connected load of 76 KW were connected up during the year.

6. *Hindupur.*

163. *General.*—During this the third year of operation of the system under Government management the peak load reached 272 KW as against 252 KW. in 1951-52. 0.88 million units were purchased from Mysore during the year compared to 0.47 million units in the previous year.

As the Mysore supply voltage was poor, a 2,500 KVA. 22 KV. booster was erected and commissioned to operate at 11 KV 25 cycles on 31st March 1953.

164. *Connected load.*—

	Number of consumers.	Connected load in K.W.
I. High-tension supplies	..	..
II. Low-tension supplies—		
(a) Industrial	44	502
(b) Agricultural	34	184
(c) Domestic heat and light	673	539
(d) Commercial light and power	35	2
(e) Street lighting	1	18
(f) Miscellaneous	1	4
Total ..	<u>788</u>	<u>1,249</u>

165. *Transmission lines and distributions.*—There were at the end of 1952-53, 5.05 miles of 33 KV line 10.676 miles of 11 KV line and 20.494 miles of low-tension lines against 5.05 miles, 5.416 miles and 15.374 miles, respectively at the end of 1951-52 and 11 numbers distribution transformers with an aggregate capacity of 1,125 KVA in service at the end of the year.

166. *Agricultural and industrial services.*—Fifteen numbers agricultural services with a connected load of 68 KW were connected up during the year.

7. *Sandur.*

167. *General.*—The peak load was 40 KW during this the fourth year of operation, same as in last year. 0.059 million units were generated during the year compared to 0.058 units in 1951-52.

The gross revenue earned during the year was Rs. 15,062 as against Rs. 16,860 in the previous year.

168. *Power-house.*—The engines and connected generating equipment were giving satisfactory service. Change over of the distribution from D.C. to A.C. was completed. Consequent on this the 36 h.p. Crossley oil engine driving 19 KW D.C. generator was uncoupled from the D.C. generator and coupled to an A.C. 27.5 KVA generator diverted from Anantapur.

169. *Connected load.*—

	Number of consumers.	Connected load in K.W.
I. High-tension supplies	..	..
II. Low-tension supplies—		
(a) Industrial	3	14
(b) Agricultural	3	14
(c) Domestic light and power	63	35
(d) Commercial light and power	260	8
(e) Street lighting	1	3
Total ..	<u>329</u>	<u>74</u>

170. *Transmission lines and distributions.*—There were 9.94 miles of low-tension lines in service at the end of the year.

171. *Agricultural services.*—One agricultural service with a connected load of 8 KW was connected up during the year.

8. *Proddatur.*

172. *General.*—This was the third year of operation of the undertaking under Government management. The peak-load reached was 124 KW as against 90 KW in 1951-52. 0.34 million units were generated compared to 0.23 million in the previous year.

The gross revenue earned during the year was Rs. 83,752 as against Rs. 56,458 in 1951-52.

173. *Power-house.*—The operation and maintenance of the diesel generating sets in the power-house was satisfactory. Supply throughout 24 hours of the day was given from 29th December 1952. The erection of two 290 KW. diesel generating sets to augment the generating capacity was in progress.

174. *Connected load*—

	Number of consumers.	Connected load in K.W.
I. High-tension supplies	..	..
II. Low-tension supplies—		
(a) Industrial	17	91
(b) Agricultural	21	91
(c) Domestic heat and light	550	308
(d) Commercial light and power	41	2
(e) Street lighting	1	16
Total ..	630	508

175. *Transmission lines and distributions.*—There were 6.09 miles of high-tension lines and 10.25 miles of low-tension lines at the end of 1952-53 against 5.5 miles of high-tension and 10 miles of low-tension at the end of 1951-52. Six numbers distribution transformers with an aggregate capacity of 190 KVA. were in service at the end of the year.

176. *Agricultural and industrial services.*—Ten agricultural services with a connected load of 40 KW. were effected during the year.

9. *Nandyal.*

177. *General.*—This is the second year of operation. A peak demand of 180 KW. was reached as against 114 KW. in 1951-52. 0.30 million units were generated as against 0.062 million in the previous year (since commissioning on 13th September 1951).

The gross revenue earned was Rs. 70,737.

178. *Power-house.*—The two numbers 235 KW diesel sets in the power-house were giving satisfactory service. The generating capacity of the power-house is proposed to be augmented by the erection of one 224 KW Duetz diesel generating set (received at site) and one 85 KW set on order. Twenty-four hours supply was effected from 1st February 1953.

179. *Connected load*—

	Number of consumers.	Connected load in K.W.
I. High-tension supplies	..	..
II. Low-tension supplies—		
(a) Industrial	17	286
(b) Agricultural	1	5
(c) Domestic light and power	523	391
(d) Commercial light and power	25	1
(e) Street lights	1	15
(f) Water works	1	50
Total ..	568	748

180. *Transmission lines and distributions.*—There were 3.978 miles of high-tension line and 12,039 miles of low-tension line and five numbers distribution transformers with an aggregate capacity of 425 KVA in service at the close of 1952-53.

181. *Agricultural and industrial services.*—One agricultural service with connected load of 5 KW was connected up during the year.

10. *Tadpatri.*

182. *General.*—During this the second year of operation, the peak load demand reached 75 KW as against 58 KW in 1951-52. 0.14 million units were generated as against 0.06 million in the previous year (since date of commissioning on 12th September 1951).

The gross revenue earned was Rs. 40,813.

183. *Power house.*—The two 235 KW diesel sets in the powerhouse were giving satisfactory service during the year. One number 50 KW diesel set was added to the station to be run during the low load hours.

184. *Connected load*—

	Number of consumers.	Connected load in KW
I. High-tension Lines	..	..
II. Low-tension Lines—		
(a) Industrial	7	43
(b) Agricultural	..	..
(c) Domestic heat and light	462	206
(d) Commercial light and power	45	2
(e) Street lighting	1	12
Total ..	515	263

185. *Transmission lines and distributions.*—There were 2.1 miles of high-tension line and 10.53 miles of low-tension lines and three numbers distribution transformers with an aggregate capacity of 200 KVA. in service at the end of the year.

186. *Financial results of the Schemes in the Ceded districts area for 1952-53*—

Serial number. (1)	Uddapah. (2)	Proddatur. (3)	Nandyal. (4)	Tadpatri. (5)	Anantapur. (6)
	RS.	RS.	RS.	RS.	RS.
1 Capital	9,22,487	5,61,834	6,57,035	6,08,696	8,71,869
2 Gross revenue	2,25,650	83,752	70,737	40,813	1,54,167
3 Operation and main- tenance.	1,53,837	87,272	80,969	72,562	1,75,212
4 Depreciation reserve fund.	24,600	..	..	..	..
5 Special reserve fund.	9,900	..	..	..	..
6 Total	1,88,337	87,272	80,969	7,2562	1,75,212
7 Net revenue	37,313	(-) 3,520	(-) 10,232	(-) 31,749	(-) 21,045

	Kurnool. (7)	Hydro-Schemes. (8)	Sandur. (9)	Total. (10)
	RS.	RS.	RS.	RS.
1 Capital	7,02,565	97,91,474	96,672	1,42,12,132
2 Gross revenue ..	2,49,173	12,96,353	15,062	21,35,707
3 Operation and main- tenance.	2,57,588	9,04,989	25,205	17,57,634
4 Depreciation reserve fund.	12,600	..	..	37,200
5 Special reserve fund.	..	..	..	9,900
6 Total	2,70,188	9,04,989	25,205	18,04,734
7 Net revenue	(-) 21,015	3,91,364	(-) 10,143	3,30,973

187. *Rural Welfare Schemes in the Rayalaseema Power system—Rural Welfare Scheme in the Rayalaseema area.*—The progress made during the year on the various rural welfare schemes in the Rayalaseema System is briefly indicated below:—

(1) *Alur firka.*—Supply was extended to 15 domestic and 3 industrial services during the year.

(2) *Holagadi firka.*—Proposals are under finalisation.

(3) *Hindupur firka.*—Supply was effected to 82 domestic, 8 commercial, 9 industrial and 10 agricultural services.

(4) *Parigi firka.*—3.3 miles of 11 KV line, one 75 KVA and one 50 KVA transformer were erected and energised and supply given to 5 agricultural services.

188. Programme for 1953-54—

(1) Several improvements to various acquired undertakings which could not be carried out fully hitherto due to shortage of funds.

(2) Completion of the Madanapalle and Proddatur extension works.

(3) Various rural extensions will be taken up according to availability of voluntary loan contributions and will be in progress.

(4) Development of load on Nellore power house by connecting up as many Mica mines and Town loads as possible.

ELECTRICAL INSPECTORATE AND LICENSEES.

189. *Electrical undertakings.*—There were at the end of the year 43 licensee's undertakings, one operating under section 28 of the Indian Electricity Act, nine managed by local authorities and the rest by private licensees. The conditions of supply in these licensee's areas were generally satisfactory except for the restrictions imposed in the hydro-areas on account of adverse water conditions and in the Andhra areas on account of shortage of generating capacity. Inasmuch as the limit of generating capacity was almost reached, the Mangalore licensee has accepted the offer by the Electricity department of 500 KW diesel generating set for augmenting power supply in the licensee's area on a hire basis.

No new licences or extension of period for existing licences were granted.

The sanction given under section 28 of the Indian Electricity Act to Messrs. Kanara Ceramics, Limited, for distribution in the area of Kasargod, expiring on 28th February 1953, was extended up to 31st March 1953.

In view of the financial stringency no loans were given to licensees for rural development. Permission was granted under section 9 (2) of the Indian Electricity Act to the West Coast and Guntur licensees to take mortgage loans of Rs. 7 and 4 lakhs, respectively, from the Madras Industrial Investment Corporation.

The accounts of 45 licensees' undertakings were audited by the Audit Officer of the Inspectorate.

There were 1,124 cinemas in the State, out of which 571 were permanent and 553 were touring.

190. *Nationalization.*—Due to the stringent financial position of the State Government, the nationalization programme could not be proceeded with as planned and no undertakings were acquired during the year.

The State Government filed an appeal in the Supreme Court against the decision made by the High Court, Madras, on the suit filed by the following local authority undertaking holding that the provisions of the Madras Electric Supply Undertakings Acquisition Act, 1949, in so far as they relate to local bodies were *ultra vires*:—

- | | |
|-----------------|--------------------|
| (1) Madurai. | (6) Tiruppattur. |
| (2) Coimbatore. | (7) Bodinayakanur. |
| (3) Tanjore. | (8) Vijayavada. |
| (4) Pollachi. | (9) Masulipatnam. |
| (5) Karur. | |

The matter is pending with the Supreme Court of India.

The final compensation in respect of the following twenty undertakings was paid subject to revision if necessary based on the judgment of the Supreme Court on the appeal in regard to the nine local authorities mentioned above:—

- | | |
|-------------------|-----------------------------|
| (1) Sembiam. | (11) Rameswaram. |
| (2) Tiruvottiyur. | (12) Tiruppur. |
| (3) Coonoor. | (13) Tiruvellore. |
| (4) Dharapuram. | (14) Tiruvannamalai. |
| (5) Kancheepuram. | (15) Udumalpet. |
| (6) Kodaikanal. | (16) Virudhunagar. |
| (7) Dindigul. | (17) Sivakasi. |
| (8) Kakinada. | (18) Periakulam. |
| (9) Ootacamund. | (19) Wellington cantonment. |
| (10) Palani. | (20) Alandur. |

The question of purchase of the Visakhapatnam Electrical Undertaking by negotiation was under consideration. In this case there was continuous default in payment of current consumption charges resulting in very heavy accumulation of arrears. The Department had to take action under the Revenue Recovery Act and place the undertaking under the Collector of Visakhapatnam for management.

The acquisition of the Rajahmundry Electrical Undertaking was kept in abeyance pending decision of the Supreme Court on the appeal filed by them against the decision of the Madras High Court.

Final compensation in respect of the following private licensee undertakings was deposited:—

(1) *Taken over under Acquisition Act—*

- (1) Proddatur.
- (2) Ongole.
- (3) Narasaraopet.
- (4) Udipi.
- (5) Srikakulam.
- (6) Salur-Parvathipur.
- (7) Union Cochin.
- (8) Adoni.
- (9) West Ramanathapuram.
- (10) Nellore.

(2) *Taken over by negotiated purchase—*

- (1) Neikuppai.
- (2) Okkur.
- (3) Gudiyatham.

Declaration of final compensation in respect of the Cuddapah undertaking was pending with Government.

The decision of Government in regard to final compensation declared in respect of Udipi, Srikakulam, Salur-Parvathipur and Narasaraopet was not accepted by their respective Accredited Representatives who requested reference of the matter to arbitration. In the case of Narasaraopet as the validity of appointment of the Accredited Representative has been questioned in a Court of Law, arbitration in that case has to await the decision of the Court. In respect of the other three cases the question of appointment of arbitrators was under consideration.

Statements showing particulars of operation and maintenance expenses, revenue, etc., before and after nationalization of electrical undertakings being independent generating stations are given in Appendix L.

191. *Indian Electricity Act and Rules.*—Proposals for amendment of the Indian Electricity Act, 1910, and Indian Electricity Rules, 1937, were under consideration of the Central Government.

For purposes of uniformity, the old licences granted to the four licensees operating in the area comprised in the former Pudukottah State were sought to be amended and Government have passed orders in respect of one of them, viz., Pudukottah Electric Corporation, Limited.

Many licensees could not provide linked switches on high-tension side of all transformer sub-stations as required by rule 60 (1) (d) of the Indian Electricity Rules, 1937, due to their high cost and hence the rule was relaxed in respect of such licensees up to a particular date.

Indian Electricity Rule 71 was relaxed in respect of certain high-tension line in the Vellore and Brahmaildyambal Electric Corporation up to 20th November 1952 and 31st December 1952, respectively.

In view of the dearth of candidates qualified for wireman's licence Indian Electricity Rule 48 which should have come into force in this State

from 1st January 1953 has been deferred to 1st January 1954 with the approval of the Government.

192. *Street lighting.*—The revised model form of street lighting agreement between licensees and local bodies was still under consideration.

In view of the recent trend to use mercury vapour lamps lavishly, recommendations in regard to the introduction of mercury vapour lamps in municipal and panchayat street lighting were made to the Inspector of Local Boards and Municipal Councils fixing a graded maximum upper limit in the percentage of wattage of mercury vapour lamps to the total wattage in street lighting for enforcement in local authority street lighting.

193. *Tariffs.*—The following licensees readjusted their rates during the year under Clause I of Schedule VI to the Electricity Supply Act, 1948:—

							Increase or decrease.
1	Tirunelveli-Tuticorin	..	..	..	..	..	Decrease.
2	Salem-Erode	..	..	..	..	..	Do.
3	Kozhikode	..	..	..	..	..	Do.
4	Vellore	..	..	..	..	..	Do.
5	Ellore	..	..	..	..	..	Increase.
6	Kanadukathan	..	..	..	..	..	Decrease.
7	Karaikudi	..	..	..	..	..	Do.
8	Nattarasankottai	..	..	..	..	..	Do.
9	Devakottai	..	..	..	..	..	Do.
10	Bobbili	..	..	..	..	..	Increase.
11	East Coast	..	..	..	..	..	Do.
12	Chingleput	..	..	..	..	..	Decrease.
13	Ponnamaravathy	..	..	..	..	..	Increase.

The revised draft booklet of rates and conditions of supply of the Kanadukathan licensee was approved by Government.

The question of vesting power of telegraph authority in licensees themselves [as in the case of Chief Engineer (Electricity) for the areas under the Electricity Department] was still under consideration of Government.

No prosecution was launched under the Indian Electricity Act and Rules during the year.

194. *Inspections.*—One hundred and sixty-two inspections under the Indian Electricity Act were made during the year under review.

195. *Restriction and control and freezing orders.*—The above order continued to be operative as the life of the Madras Essential Articles Control and Requisitioning (Temporary Powers) Act, 1949, was extended up to and inclusive of 25th January 1955. The question of enactment of separate legislation for the purpose of Restriction and Control and Surcharge orders will be considered, if necessary, nearer that time.

196. *Rationing of electricity.*—Retail rationing continued to be in force in the areas of the licensees availing bulk supply from the Vijayavada power-house.

197. *Supply position in licensees' areas*—(1) *Hydro-electric areas*.—The restrictions on power supply and the cut in consumption of energy imposed by the Electricity Department on account of power shortage caused by failure of monsoons were in force in all licensees areas getting supply from Hydro-electric systems of the Electricity Department.

(2) *Thermal areas*—(a) *Vijayavada power house*.—The supply position eased to a great extent on the commissioning of new sets at the power house in 1951-52 and allotment of additional maximum demand to the several licensees. The restriction and control orders now apply only in respect of industrial and agricultural consumers of over 3 h.p.

(b) *Visakhapatnam power house*.—The supply position was satisfactory. Restriction and control orders continued to be in force.

(3) *Self-generating licensees*—(a) *Rajahmundry*.—The supply position has become easier as the power station is now interconnected with the Vijayavada power house. However no general relaxation of restrictions was possible.

(b) *Mangalore*.—The power position continues to be difficult. The Department has offered to the licensee a 500 KW generating set on hire for erection to augment licensee's generation. The licensee is arranging for erection of the set.

198. *Surcharges*.—No war cost and fuel surcharges were levied by licensees since such licensees as were in need of relief obtained such relief by a readjustment of rates under paragraph 1 of Schedule VI to the Electricity Supply Act, 1948.

199. *Assistance to licensees with regard to procurement of iron and steel materials*.—Necessary advice and assistance were given to licensees in procuring iron and steel materials.

200. *Laboratory*.—Supply pressure and meter tests were carried out in seven licensees areas. The tests carried out by the inspectorate are furnished hereunder:

201. Laboratory tests—

(1) Rotating sub-standard meters	...	...	...	303
(2) Commercial meters and instruments	...	...	...	541
(3) Transformer oil samples	...	...	...	167
(4) Fire extinguishers	...	...	...	1,600
(5) Laboratory standards	...	...	...	41

Total ... 2,652

(6) Supply pressure tests	...	...	...	215
(7) Meter tests	...	...	...	317

Total ... 532

(8) High pressure tests	...	...	...	54
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Grand total ... 3,238

Out of 303 rotating sub-standards tested 241 were from Government operating systems and the rest from licensees.

High-tension D.C. tests were carried out on the following lines:—

	MILES.
(1) Rajapalayam-Tenkasi 66 KV. single circuit line	42
(2) Papanasam-Tirunelveli 66 KV. single circuit line	35
(3) Madurai-Sivaganga 66 KV. single circuit line	28.5
(4) Rajapalayam-Tirumangalam 66 KV. single circuit line	39

The total revenue earned by the laboratory including payment by System was Rs. 26,230.

202. *Administration of local authorities electrical undertakings*.—There were nine local authority electrical undertakings. No undertaking was taken over during the year. Orders for the merger of the Madras Local Authorities Electrical Engineers' Service in the Government Electricity Department were issued by Government during the year and detailed rules for giving effect to these orders are under consideration. No loans were sanctioned by Government to any of the local authority undertakings. Tenders to the value of Rs. 3.91 lakhs were scrutinized and advice given to the local authority electrical undertakings on the purchase of electrical materials.

203. *Madras Cinematograph Act and Rules*.—There were 1,124 cinemas at the end of the year under review of which 571 were permanent and 553 were touring. The number of inspection done during the year was 1,130.

A table indicating the growth of cinemas during the past five years is given below:—

As on 31st March of each year.	Permanent.	Touring.	Total.
1949	360	597	957
1950	434	696	1,130
1951	479	724	1,203
1952	508	717	1,225
1953	571	553	1,124

204. *Cinema Operator's licence*.—Only one examination for cinema operators was held during the year. One hundred and sixty-five candidates were examined of whom 86 were declared successful. One hundred and twenty-eight operators' licences were issued during the year bringing the total number of licences issued to 2,222. Eight hundred and forty-nine licences were renewed and the total number renewed up to the end of the year was 1,354.

205. *Administration of the Madras Electricity Duty Act, 1939*.—A table indicating the revenue realized from this source since the promulgation of this Act is given below:—

Year.	Amount.	Year.	Amount.
	RUPEES IN LAKHS.		RUPEES IN LAKHS.
1939-40	5.07	1946-47	9.83
1940-41	6.54	1947-48	10.66
1941-42	6.58	1948-49	11.27
1942-43	5.64	1949-50	12.68
1943-44	5.82	1950-51	12.74
1944-45	7.13	1951-52	12.57
1945-46	8.04	1952-53	13.06

Tiruchirappalli-Srirangam and Madurai licensees continued to top the list of duty paying licensees. The total number of licensees paying duty at the end of the year was 41 as against 61 in the previous year.

The accounts of 22 undertakings were inspected under the Act as against 20 in 1951-52.

206. Revenue and expenditure—

	1952-53.	
	Revenue. Rs.	Expenditure. Rs.
(1) From inspections under the Indian Electricity Act, Cinematograph Act, tests and miscellaneous receipts.	1,31,719	
(2) From penalty for excess consumption of electricity ..	94,330	
(3) From the Madras Electricity Duty Act, 1939 ..	13,05,809	
(4) From use of Government water for generation of electricity ..		
(5) Fees for audit of licensees' accounts on behalf of Government by the Audit Officer and the staff ..	10,622	
(6) Other receipts ..	3,563	
Total ..	15,45,843	1,82,524

207. Accidents.—Return of electrical accidents in the Madras State during 1952-53.

Systems.	Departmental employees.			Non-departmental employees.			Consumer's premises.			Total.
	Unauthorized working.	Non-compliance of safety rules.	Other causes.	Snapped conductors.	Inquisitive climbing.	Other causes.	Careless handling.	Faulty equipment or wiring.		
Government Systems—Fatal—										
Pykara System	..	1	..	..	4	3	..	1	..	9
Mettur System	..	..	..	..	10	6	..	..	..	16
Andhra System	..	1	..	..	10	1	..	..	..	15
Rayalaseema System	..	..	..	..	3	..	..	1	..	7
Papanasam System	..	..	..	..	4	..	..	..	..	16
Madras System	..	..	..	..	2	..	..	..	..	7
										Total .. 66
Non-fatal—										
Pykara System	..	5	5	..	5	5	..	1	..	21
Mettur System	..	..	1	..	15	4	..	..	..	20
Andhra System	..	1	2	..	65	3	1	..	..	74
Rayalaseema System	..	1	..	..	..	3	..	..	..	4
Papanasam System	..	3	12	..	6	3	..	..	..	24
Madras System	1	..	2	1	3	..	..	2	..	9
										Total .. 152
A. Company licensees—										
Fatal	1	..	1	2	2	5	2	1	..	14
Non-fatal	1	2	6	8	16	7	..	..	..	40
										Total .. 54
B. Local Authorities—										
Fatal	1	..	1	1	..	1	2	2	..	5
Non-fatal	..	..	1	..	..	1	..	3	..	5
										Total .. 11
C. Non-licensee—										
Fatal	..	..	1	..	..	..	..	..	..	1
Non-fatal	..	..	..	..	..	..	..	..	..	..
										Total .. 1
										Grand Total .. 284

208. Staff.—Sri G. Sundaram, re-employed Chief Engineer for Electricity, retired on 13th November 1952 and was appointed on contract as part-time Consulting Engineer to Government for a period of one year from 14th November 1952 forenoon.

Sri B. R. Somayajulu, Chief Operation Engineer (North), was appointed as Chief Engineer for Electricity from 13th November 1952 afternoon.

Sri N. R. Narasimhamurthy, Chief Operation Engineer (South), proceeded on leave for two months from 28th April to 27th June 1952.

Sri M. B. Kandaswamy was on leave from 31st December 1951 to 27th April 1952. He was Chief Operation Engineer (South) from 28th April to 27th June 1952; Superintending Engineer (Distribution), Madras Electricity System, from 29th June to 13th November 1952 and Chief Operation Engineer (North) from 14th November 1952 onwards.

Sri A. R. Narayana Rao was on leave from 13th March to 14th May 1952. On the expiry of the leave he joined as Superintending Engineer (Generation), Madras Electricity System, on 15th May 1952. He again proceeded on leave from 2nd May 1953 forenoon.

Sri K. V. Karantha, Chief Electrical Inspector to Government, was on leave from 7th to 27th November 1952.

Sri P. V. A. Narayanamurthy, Superintending Engineer (Electrical), was on leave from 29th June 1952 to 7th September 1952 afternoon. He was posted as Superintending Engineer (Technical) (Electrical), Madras, vice Sri V. P. Appadurai, proceeded on deputation to Canada under Commonwealth Technical Assistance Co-operation Scheme. Sri P. V. A. Narayanamurthy took charge as Superintending Engineer, Technical (Electrical), with effect from 7th September 1952 afternoon.

Sri L. Ekambaram was transferred as Superintending Engineer, Papanasam Electricity System, Madurai, and he joined on 24th May 1952.

Sri S. N. Ramachandra Rao, Superintending Engineer, Papanasam Electricity System, was transferred as Superintending Engineer (Generation), Erode, reverting Sri P. R. Sundaram as Divisional Electrical Engineer with effect from 1st June 1952. Again he was transferred as Superintending Engineer (Distribution), Madras Electricity System, and he assumed charge at Madras on 13th November 1952 afternoon.

Sri P. R. Sundaram, Superintending Engineer (Electrical) was reverted as Divisional Electrical Engineer with effect from 1st June 1952 but was again promoted as Superintending Engineer and posted as Superintending Engineer (Generation), Erode. He assumed charge as Superintending Engineer on 8th November 1952 forenoon.

Sri S. R. Krishnamurthi and Sri A. Venkateswaran were re-employed for another year from 15th July and 15th August 1952, respectively. Sri A. Venkateswaran, Superintending Engineer, Moyar, was transferred as Superintending Engineer, Machkund, in October 1952, vice Sri P. M. Chengappa transferred as Superintending Engineer, Moyar.

Sri P. M. Chengappa was on leave from 10th January to 9th May 1953.

Sri H. Raghavendra Rao, Executive Engineer (Civil), was promoted as Superintending Engineer (Civil) under emergency rules and posted as Superintending Engineer, Moyar. He took charge as Superintending Engineer with effect from 10th January 1953.

Sri K. Kesava Ayyangar, Accounts Officer, Madras Electricity System, was on leave from 13th September 1952 afternoon to 12th January 1953 afternoon. Sri B. Suryanarayanamurthy, Chief Controller of Accounts, held full additional charge of the post of Accounts Officer, Madras Electricity System, during the above period.

The following officers retired from service on the dates noted against each :—

Name of officer.	Designation.	Date of retirement.
1 Sri V. S. Maniyam	Assistant Engineer (Electrical).	27th September 1952.
2 Sri S. Krishnamurthy Iyer	Assistant Engineer (Electrical).	20th December 1952.
3 Sri K. S. Ponnuswamy	Deputy Chief Accountant.	20th April 1952, f.n.

209. *Acknowledgment.*—The thanks of the Department are due to the Director-General, India Stores Department, London, Central Water and Power 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.

B. R. SOMAYAJULU,
Chief Engineer for Electricity.

APPENDICES.

APPENDIX A.

List of construction works undertaken—81-A. Capital Outlay on Electricity Schemes with expenditure to end of March 1953 (Final).

Names of schemes.	Expenditure during 1952-53.	Total expenditure against estimates.
	RS.	RS.
<i>Schemes under operation.</i>		
I. Hydro-Electric Schemes—		
A. Pykara System—		
1 Pykara Hydro-Electric Scheme	34,91,857	6,11,87,191
2 Kollegal Hydro-Electric Scheme	25,262	2,42,048
3 Udipi and Karkala Thermal Scheme	2,74,519	5,58,829
Total ..	37,91,638	6,19,88,088
B. Mettur System—		
1 Mettur Hydro-Electric Scheme	40,66,369	4,89,86,261
2 Kuppam Extensions	15,613	8,58,166
3 Mettur Workshops Expansion Scheme	35,129	11,58,662
Total ..	41,17,111	5,10,03,089
C. Papanasam System—		
1 Papanasam Hydro-Electric Scheme	62,78,366	3,63,91,976
2 Madurai Thermal Scheme	25,69,314	1,12,08,776
3 Papanasam IV Unit Extensions	2,34,103	71,11,323
Total ..	90,81,783	5,47,12,075
D. Rayalaseema Power System—		
1 Ceded District Scheme	11,78,457	88,60,460
2 Bellary Scheme	..	3,00,616
3 Hospet Scheme	10,700	30,840
4 Adoni Scheme	2,36,182	5,99,558
5 Hindupur Scheme	..	..
Total ..	14,25,339	97,91,474
Total—Capital under Operation—Hydro-Scheme ..	1,84,16,871	17,74,94,726
I. Thermo-Electric Schemes—		
A. Rayalaseema Power System—		
1 Anantapur Scheme	2,97,009	8,71,369
2 Proddatur Scheme	2,02,846	5,61,834
3 Sandur Scheme	19,876	96,672
4 Cuddapah Scheme	55,387	9,22,487
5 Kurnool Scheme	2,19,996	7,02,565
6 Nellore Scheme	9,54,465	71,42,178
7 Tadpatri Scheme	53,755	6,08,696
8 Nandyal Scheme	92,905	6,57,035
Total ..	18,96,039	1,15,62,836

APPENDIX A—cont.

List of construction works undertaken—81-A. Capital Outlay on Electricity Schemes with expenditure to end of March 1953 (Final)—cont.

Names of schemes.	Expenditure during 1952-53.	Total expenditure against estimates.
	RS.	RS.
<i>Schemes under operation—cont.</i>		
II. Thermo-Electric Schemes—cont.		
B. Madras Electricity System—		
1 Madras Thermal Scheme	46,26,192	4,67,61,304
2 Chingleput-Kancheepuram-Arkonam Extensions ..	5,83,867	15,97,552
Total ..	52,10,059	4,83,58,856
C. Andhra Power System—		
1 Visakhapatnam Scheme	5,56,424	59,21,967
2 Vijayavada Scheme	50,65,004	2,03,50,029
3 Kakinada Scheme		
4 Narasaraopet Scheme		
5 Rajahmundry Scheme		
6 Ongole Scheme		
7 Srikakulam and Narasannapet Scheme	29,531	2,91,201
8 Salur-Parvathipur Scheme	1,81,826	3,03,962
9 Visakhapatnam Power House Extensions	1,79,009	2,06,296
10 West Godavari District Electrification Scheme	1,51,091	27,13,558
	3,45,842	24,48,516
Total ..	65,04,317	3,22,35,529
Total—Capital under Operation Thermo Scheme ..	1,36,14,415	9,21,57,221
Total—Operation Capital ..	3,20,30,286	28,96,51,947
<i>Schemes under construction.</i>		
I. Hydro-Electric Schemes—		
1 Moyar Hydro-Electric Scheme	8,76,449	3,53,84,015
2 Pykara Plant III Stage Extensions	63,91,751	2,36,63,426
3 Pykara-Coimbatore-Madurai 110 KV 3rd Circuit line ..	24,89,113	28,06,888
4 South Kanara Scheme	9,03,665	9,78,364
5 66 KV Extensions to and constructions of a substation at Pollachi. ..	1,78,801	3,70,901
6 Madras-Mettur Inter-connection Scheme	15,93,725	1,08,95,293
7 Erode-Tiruchirappalli-Dalmiapuram Extensions ..	6,26,678	43,35,263
8 Erode-Salem Extensions	2,64,428	22,69,829
9 Tanjore-Mayuram-Chidambaram Extensions	2,98,475	23,73,578
10 Madurai-Tirumangalam-Rajapalayam Tenkasi Extensions ..	5,98,897	24,77,959
11 Madurai-Sivaganga Extensions	5,50,070	8,72,817
12 Papanasam Tirunelveli-Kayattar Extensions	4,51,790	16,46,456
13 Machkund Hydro-Electric Scheme	2,12,73,296	6,75,80,187
14 Tungabhadra Hydro-Electric Scheme	10,47,444	15,82,910
Total ..	3,77,48,581	15,72,37,886
II. Thermo-Electric Schemes—		
1 Madras Power Station Extensions	78,02,171	2,42,13,011
2 Madanapalle Thermal Scheme	6,65,618	6,84,643
3 Bezwada-Rajahmundry-Samalkot Extensions	7,17,960	1,74,35,887
Total—Construction Capital—Thermal Schemes ..	91,85,749	4,23,33,541
Total—Construction Capital ..	4,69,34,330	19,95,71,427
Total—Capital Outlay ..	7,89,64,616	46,92,23,374

APPENDIX B.

Budget provision for Capital Works in 1953-54.

Serial number and particulars.	Budget estimate for 1953-54.
	RS.
81-A. CAPITAL OUTLAY ON ELECTRICITY SCHEMES.	
Hydro-Electric Schemes (excluding Post-war Reconstruction) —	
A. Pykara Hydro-Electric Scheme—	
1 Generation	67,000
2 Transmission and distribution	7,68,300
3 Distribution of power in the Pykara System	600
4 Extensions costing over Rs. 2 lakhs	24,72,600
5 Pension charges	55,100
6 Suspense	43,76,300
Total ..	77,87,900
B. Mettur Hydro-Electric Scheme—	
1 Generation	97,500
2 Transmission and distribution	16,00,400
3 Distribution of power in Mettur System	600
4 Extensions costing over Rs. 2 lakhs	3,100
5 Pension charges	11,700
6 Suspense	25,64,700
Total ..	42,78,000
C. Papanasam Hydro-Thermal Scheme—	
1 Generation	100
2 Transmission and distribution	8,39,100
3 Distribution of power in Papanasam System	600
4 Extensions costing over Rs. 2 lakhs	1,900
5 Pension charges	5,200
6 Suspense	4,60,700
Total ..	3,86,200
Lump-sum provision for payment of compensation for acquisition of Electrical Undertakings of local authorities and private companies	
	9,06,000
Total, 81-A. I. Hydro-Electric Schemes (excluding Post-war Reconstruction)	1,33,02,100
Hydro-Electric Schemes (Post-war Reconstruction)—	
A. Pykara Hydro-Electric Scheme—	
1 Moyar Scheme	10,86,600
2 Pykara Plant Extensions III and final stage	41,16,100
3 Construction of the III Circuit 110 KV line from Pykara to Coimbatore and Coimbatore to Madurai	67,93,300
4 66 KV Extension to and construction of a sub-station at Pollachi. ..	8,54,900
5 Supply to South Kanara district from Jog falls	36,05,500
Total ..	1,42,83,200
B. Mettur Hydro-Electric Scheme—	
1 Madras-Mettur Inter-connection Scheme	14,37,500
2 Extension to Kuppam	1,100
3 Extension of supply from Erode to Tiruchirappalli and Dalmiapuram. ..	4,95,900
4 66/110 KV Extensions from Erode to Salem	3,2,000
5 Mettur Workshop Expansion Scheme	37,800
6 Chingleput-Kancheepuram-Arkonam Extensions	1,26,500
7 Tanjore-Mayuram-Chidambaram Extensions	6,53,200
Total ..	30,54,000

APPENDIX B—cont.

Budget provision for Capital Works in 1953-54—cont.

Serial number and particulars.	Budget estimate for 1953-54.	RS.
81-A. CAPITAL OUTLAY ON ELECTRICITY SCHEMES—cont.		
I. Hydro-Electric Schemes (Post-war Reconstruction)—cont.		
C. Papanasam Hydro-Electric Scheme—		
1 Papanasam IV Unit Extensions	31,400	
2 Madurai Thermal Station	11,15,600	
3 Madurai-Tirumangalam-Rajapalayam-Tenkasi 66 KV lines and Sub-stations	12,66,500	
4 Madurai-Sivaganga 66 KV lines including terminal equipment	6,75,400	
5 66 KV Extension from Papanasam to Tirumangalam and Kayattar	7,48,600	
6 Distribution of power to intending consumers including increase in transformer capacity	100	
Total ..	38,37,600	
D. Machkund Hydro-Electric Scheme—		
1 Machkund Hydro-Electric Scheme	2,80,15,200	
E. Ceded Districts Scheme—		
1 Ceded Districts Scheme (Main)	44,700	
2 Distribution of power in Ceded Districts Scheme	300	
3 Extensions costing over Rs. 2 lakhs	81,200	
4 Pension charges	500	
Total ..	1,26,700	
F. Tungabhadra Hydro-Electric Scheme—		
1 Tungabhadra Hydro-Electric Scheme	99,19,300	
Total, I. Hydro-Electric Schemes (Post-war Reconstruction) ..	5,92,36,000	
Grand total, 81-A. I. Hydro-Electric Schemes ..	7,25,38,100	
II. Thermo-Electric Schemes (excluding Post-war Reconstruction)		
A. Visakhapatnam Thermal Scheme—		
1 Visakhapatnam Thermal Station	1,48,500	
2 Distribution of power in the Visakhapatnam area	300	
3 Extensions costing over Rs. 2 lakhs	500	
4 Pension charges	1,000	
Total ..	1,50,300	
B. Vijayavada, Kakinada, Rajahmundry and Narsaraopet Scheme—		
1 Thermal Station	3,25,900	
2 Distribution of power	900	
3 Extensions costing over Rs. 2 lakhs	1,100	
4 Pension charges	1,400	
5 Suspense	53,68,300	
Total ..	56,97,600	
D. Madras Thermal Scheme—		
1 Madras Thermal Station	54,900	
2 Distribution of power in Madras area	400	
3 Extensions costing over Rs. 2 lakhs	1,400	
4 Pension charges	100	
5 Suspense	10,12,900	
Total ..	10,69,700	

APPENDIX B—cont.

Budget provision for Capital Works in 1953-54—cont.

Serial number and particulars.	Budget estimate for 1953-54.	RS.
81-A. CAPITAL OUTLAY ON ELECTRICITY SCHEMES—cont.		
II. Thermo-Electric Schemes (excluding Post-war Reconstruction)—cont.		
E. Anantapur Thermal Scheme—		
1 Anantapur Thermal Station	300	
2 Distribution of power in Anantapur area	100	
3 Pension charges		
Total ..	21,900	
G. Sandur Thermal Scheme—		
1 Sandur Thermal Scheme	30,800	
I. Ongole Scheme—		
Ongole scheme	2,62,200	
J. Parvathipur Scheme—		
1 Parvathipur Scheme	300	
K. Proddatur Scheme—		
1 Proddatur Scheme	1,72,500	
L. Kurnool Thermal Scheme—		
1 Kurnool Thermal Station	1,73,900	
2 Distribution of power in Kurnool	300	
3 Pension charges	700	
Total ..	1,74,900	
M. Cuddapah Thermal Scheme—		
1 Cuddapah Thermal Scheme	3,49,500	
N. Srikakulam Thermal Scheme—		
1 Srikakulam Thermal Scheme	2,60,200	
Total, 81-A. II. Thermo-Electric Schemes (excluding Post-war Reconstruction.)	81,89,900	
I. Thermo-Electric Schemes (Post-war Reconstruction)—		
A. Visakhapatnam Power-house Extensions—		
1 Visakhapatnam Power-house Extensions	4,31,100	
B. Madras Power Station Extension—		
1 Madras Power Station Extensions	1,00,09,300	
C. Rajahmundry-Samalkot Extension Scheme—		
1 Rajahmundry-Samalkot Extension Scheme	5,10,300	
D. Nellore Thermal Scheme—		
1 Nellore Thermal Scheme	1,12,900	
2 Supply of power to mica mines at Gudur	4,29,000	
3 Pension charges	2,000	
Total ..	5,43,900	
E. West Godavari District Electrification—		
1 West Godavari District Electrification Scheme	1,12,500	
F. Tadpatri Scheme		
	12,500	
G. Nandyal Scheme		
	1,500	
H. Madanapalle Scheme		
	3,61,700	
Total, 81-A. II. Thermo-Electric Schemes (Post-war Reconstruction) ..	1,19,82,800	
Total, 81-A. II. Thermo-Electric Schemes (excluding Post-war Reconstruction) ..	81,89,900	
Total 81-A. II. Thermo-Electric Schemes (Post-war Reconstruction) ..	1,19,82,800	
Grand total—81-A. II. Thermo-Electric Schemes ..	2,01,72,700	
Total—Hydro-Electric Schemes (excluding Post-war Reconstruction.)	1,33,02,100	
Total—Hydro-Electric Schemes (Post-war Reconstruction) ..	5,92,36,000	
Grand total—81-A. I. Hydro-Electric Scheme ..	7,25,38,100	
Total Major Head—81-A. Voted ..	9,27,10,800	

APPENDIX C.

Details of establishment charges by this department and fee earned during 1952-53 and estimated for 1953-54.

	Expenditure during 1952-53.	Budget Estimate for 1953-54.
	RS.	RS.
1. Pykara Hydro-Electric Scheme—		
Salaries, allowances and other charges	11,82,728	11,76,900
Add charges payable to Government Departments, etc. ..	2,14,799	1,98,800
Total ..	13,97,525	13,75,700
Less charges recoverable from Government Departments and others	3,01,108	7,71,000
Total ..	10,96,417	6,04,700
Operation and maintenance expenses excluding suspense ..	47,77,093	49,97,800
Grand total ..	58,73,510	56,02,500
Gross Revenue ..	1,18,25,513	1,26,02,300
Net surplus ..	59,52,075	69,99,800
2. Mettur Hydro-Electric Scheme—		
Salaries, allowances and other charges	11,08,378	10,97,000
Add charges payable to Government Departments, etc. ..	1,31,216	1,52,900
Total ..	12,39,594	12,49,900
Less charges recoverable from Government Departments and others	2,97,521	— 6,16,400
Total ..	9,42,073	6,33,500
Operation and maintenance expenses excluding suspense ..	63,52,362	54,28,800
Grand total ..	72,90,435	60,62,300
Gross Revenue ..	1,03,55,377	1,22,21,000
Net surplus ..	30,64,942	61,58,700
3. Papanasam Hydro-Electric Scheme—		
Salaries, allowances and other charges	7,41,071	7,98,700
Add charges payable to Government Departments, etc. ..	79,254	75,400
Total ..	8,20,325	8,74,100
Less charges recoverable from Government Departments and others	1,84,289	— 7,76,900
Total ..	6,36,036	97,200
Operation and maintenance expenses excluding suspense ..	31,33,223	54,60,500
Grand total ..	37,69,259	55,57,700
Gross Revenue ..	54,52,349	57,11,700
Net surplus ..	17,43,090	1,54,000

APPENDIX C—cont.

Details of establishment charges by this department and fee earned during 1952-53 and estimated for 1953-54—cont.

	Expenditure during 1952-53.	Budget Estimate for 1953-54.
	RS.	RS.
4. Madras Thermal Scheme—		
Salaries, allowances and other charges	10,63,959	10,50,100
Add charges payable to Government Departments, etc. ..	1,93,380	2,48,200
Total ..	12,57,339	12,98,300
Less charges recoverable from Government Departments and others	2,82,108	— 9,18,900
Total ..	9,75,231	3,79,400
Operation and maintenance expenses excluding suspense ..	1,22,46,093	1,17,82,700
Grand total ..	1,32,21,324	1,21,62,100
Gross Revenue ..	1,55,12,020	1,65,46,200
Net surplus ..	22,90,696	43,84,100
Vijayavada Scheme—		
Salaries, allowances and other charges	7,54,345	4,50,500
Add charges payable to Government Departments, etc. ..	48,335	56,900
Total ..	8,02,680	5,07,400
Less charges recoverable from Government Departments and others	3,60,560	— 4,87,800
Total ..	4,42,120	19,600
Operation and maintenance expenses excluding suspense ..	34,24,767	41,47,600
Grand total ..	38,66,887	41,67,200
Gross Revenue ..	38,66,887	45,45,500
Net surplus ..	Nil.	3,78,300
Ongole Scheme—		
Salaries, allowances and other charges	19,059	7,500
Add charges payable to Government Departments, etc. ..	919	1,100
Total ..	19,978	8,600
Less charges recoverable from Government Departments and others	— 1,172	— 12,400
Total ..	21,150	— 3,800
Operation and maintenance expenses excluding suspense ..	78,080	84,000
Grand total ..	99,230	80,200
Gross Revenue ..	73,541	88,000
Net surplus ..	— 25,689	7,800

APPENDIX C—cont.

Details of establishment charges by this department and fee earned during 1952-53 and estimated for 1953-54—cont.

	Expenditure during 1952-53. RS.	Budget Estimate for 1953-54. RS.
7. Visakhapatnam Scheme—		
Salaries, allowances and other charges	3,14,568	2,27,000
Add charges payable to Government Departments, etc. ..	21,000	21,900
Total ..	3,35,568	2,48,900
Less charges recoverable from Government Departments and others	53,303	97,900
Total ..	2,82,265	1,51,000
Operation and maintenance expenses excluding suspense ..	13,97,746	13,91,200
Grand total ..	16,80,011	15,42,200
Gross Revenue ..	16,80,011	17,51,200
Net surplus ..	Nil.	2,09,000
8. Salur-Parvathipur Scheme—		
Salaries, allowances and other charges	7,705	3,300
Add charges payable to Government Departments, etc. ..	736	1,000
Total ..	8,441	4,300
Less charges recoverable from Government Departments and others	1,273	2,800
Total ..	7,168	1,500
Operation and maintenance expenses excluding suspense ..	81,858	76,100
Grand total ..	89,026	77,600
Gross Revenue ..	58,844	82,000
Net surplus ..	- 30,182	4,400
9. Srikakulam Scheme—		
Salaries, allowances and other charges	20,790	4,600
Add charges payable to Government Departments, etc. ..	1,057	1,000
Total ..	21,847	5,600
Less charges recoverable from Government Departments and others	1,573	- 15,900
Total ..	20,274	- 10,300
Operation and maintenance expenses excluding suspense ..	1,10,293	1,16,800
Grand total ..	1,30,567	1,06,500
Gross Revenue ..	84,550	81,000
Net surplus or deficit ..	- 46,017	- 25,500
10. Cuddapah Scheme—		
Salaries, allowances and other charges	30,544	37,900
Add charges payable to Government Departments, etc. ..	2,820	3,000
Total ..	39,364	40,900
Less charges recoverable from Government Departments and others	5,283	48,600
Total ..	34,081	- 7,700
Operation and maintenance expenses excluding suspense ..	1,54,256	1,70,000
Grand total ..	1,88,337	1,62,300
Gross Revenue ..	2,25,650	2,43,400
Net surplus ..	37,313	81,100

APPENDIX C—cont.

Details of establishment charges by this department and fee earned during 1952-53 and estimated for 1953-54—cont.

	Expenditure during 1952-53. RS.	Budget Estimate for 1953-54. RS.
11. Kurnool Scheme—		
Salaries, allowances and other charges	51,613	40,700
Add charges payable to Government Departments, etc. ..	3,114	3,000
Total ..	54,727	43,700
Less charges recoverable from Government Departments and others	10,582	9,700
Total ..	44,145	34,000
Operation and maintenance expenses excluding suspense ..	2,28,043	2,03,300
Grand total ..	2,70,188	2,37,300
Gross Revenue ..	2,49,173	2,38,700
Net surplus ..	- 21,015	1,400
12. Anantapur Scheme—		
Salaries, allowances and other charges	56,710	52,600
Add charges payable to Government Departments, etc. ..	1,927	1,800
Total ..	58,637	54,300
Less charges recoverable from Government Departments and others	16,854	9,300
Total ..	41,783	45,000
Operation and maintenance expenses excluding suspense ..	1,33,429	1,25,600
Grand total ..	1,75,212	1,70,600
Gross Revenue ..	1,54,167	1,46,000
Net deficit ..	- 21,045	- 24,600
13. Nellore Scheme—		
Salaries, allowances and other charges	87,550	1,07,000
Add charges payable to Government Departments, etc. ..	7,900	6,400
Total ..	95,450	1,13,400
Less charges recoverable from Government Departments and others	9,353	90,500
Total ..	86,097	22,900
Operation and maintenance expenses excluding suspense ..	8,02,965	6,33,700
Grand total ..	8,89,062	6,56,600
Gross Revenue ..	6,31,491	5,13,200
Net surplus or deficit ..	- 2,57,571	- 1,43,400
14. Sandur Scheme—		
Salaries, allowances and other charges	5,463	5,900
Add charges payable to Government Departments, etc. ..	188	200
Total ..	5,651	6,100
Less charges recoverable from Government Departments and others	1,105	2,100
Total ..	4,546	4,000
Operation and maintenance expenses excluding suspense ..	20,659	27,300
Grand total ..	25,205	31,300
Gross Revenue ..	15,062	16,500
Net surplus or deficit ..	- 10,143	- 14,800

APPENDIX C—cont.

Details of establishment charges by this department and fee earned during 1952-53 and estimated for 1953-54—cont.

	Expenditure during 1952-53. RS.	Budget Estimate for 1953-54. RS.
15. Proddatur Scheme—		
Salaries, allowances and other charges	15,414	21,100
Add charges payable to Government Departments, etc. ..	1,047	1,100
Total ..	16,461	22,200
Less charges recoverable from Government Departments and others	3,551	15,900
Total ..	12,910	6,300
Operation and maintenance expenses excluding suspense ..	74,362	70,200
Grand total ..	87,272	76,500
Gross Revenue ..	83,752	87,500
Net surplus or deficit ..	- 3,520	11,000

16. Nandyal Scheme—		
Salaries, allowances and other charges	17,605	19,400
Add charges payable to Government Departments, etc. ..	883	800
Total ..	18,488	20,200
Less charges recoverable from Government Departments and others	4,166	2,400
Total ..	14,322	17,800
Operation and maintenance expenses excluding suspense ..	66,647	86,200
Grand total ..	80,969	1,04,000
Gross Revenue ..	70,737	66,900
Net surplus or deficit ..	- 10,232	- 37,100

17. Tadpatri Scheme—		
Salaries, allowances and other charges	16,132	21,800
Add charges payable to Government Departments, etc. ..	510	500
Total ..	16,642	22,300
Less charges recoverable from Government Departments and others	2,233	2,900
Total ..	14,409	19,400
Operation and maintenance expenses excluding suspense ..	58,153	55,000
Grand total ..	72,562	75,000
Gross Revenue ..	40,813	43,800
Net surplus or deficit ..	- 31,749	- 31,700

APPENDIX C—cont.

Details of establishment charges by this department and fee earned during 1952-53 and estimated for 1953-54—cont.

	Expenditure during 1952-53. RS.	Budget Estimate for 1953-54. RS.
18. Ceded Districts Scheme—		
Salaries, allowances and other charges	2,92,647	2,67,100
Add charges payable to Government Departments, etc. ..	16,191	17,100
Total ..	3,08,838	2,84,200
Less charges recoverable from Government Departments and others	1,50,117	1,87,900
Total ..	1,58,721	96,300
Operation and maintenance expenses excluding suspense ..	7,46,268	8,04,800
Grand total ..	9,04,989	9,00,900
Gross revenue ..	12,96,353	13,72,100
Net surplus ..	3,91,364	4,71,200

	1952-53.	
	Revenue. RS.	Expenditure. RS.
Chief Electrical Inspector to Government—		
1 From inspections under the Indian Electricity Act, Cinematograph Act, tests and miscellaneous receipts.	1,31,719	..
2 From penalty for excess consumption of electricity ..	94,330	..
3 From the Madras Electricity Duty Act, 1939 ..	13,05,609	..
4 From use of Government water for generation of electricity	..	..
5 Fees for audit of licensees' accounts by the Audit Officer and the staff	10,622	..
6 Other receipts	3,563	..
Total ..	15,45,843	1,82,524

APPENDIX D-1.

Licensee electric supply undertakings in service.

(a) Local authorities.	(b) Companies—cont.	(c) Companies—cont.
1 Vijayavada	8 Eluru	26 Tellocherry-Cannanore
2 Bodinayakanur	9 East Ramanathapuram	27 Vellore
3 Coimbatore	10 Guntur	28 Visakhapatnam
4 Karur	11 Gudivada	29 Pudukkottai Electric Supply Corporation
5 Masulipatnam	12 Kanadukathan	30 Pudukkottai State Electric Supply Corporation
6 Madurai	13 Karalkudi	31 Ramachandrapuram
7 Pollachi	14 Kumbakonam	32 Ponnamaravathy
8 Tanjore	15 Mangalore	33 East Coast Electric Supply Corporation
9 Tirupattur	16 Mayuram-Mannargudi-Tiruvarur	34 Kanara Ceramics, Limited
	17 Nattarasankottai	Kasaragod. (Sanctioned under section 28 of Indian Electricity Act.)
	18 Nacapattinam	
	19 Palghat	
	20 Rajahmundry	
	21 South Arcot	
	22 Salem-Erode	
	23 Tiruchirappalli-Srirangam	
	24 Tirumalai-Tirupati Devasthanams	
	25 Tirunelveli-Tuticorin	

APPENDICES

APPENDIX D-2.

Licensees under construction.

Nil.

APPENDIX D-3.

New applications for licences received.

Nil.

APPENDIX D-4.

List of undertakings put into service.

Nil.

APPENDIX D-5.

List of licensees who reduced their tariffs.

1 Tirunelveli-Tuticorin.	6 Karaikudi.
2 Salem-Erode.	7 Nattarasankottai.
3 Kozhikode.	8 D. vakottai.
4 Vellore.	9 Chingleput.
5 Kanadukathan.	

APPENDIX D-6.

List of licensees who increased their tariffs.

1 Ponnamaravathy.	3 East Coast.
2 Bobbili.	4 Eluru.

APPENDIX D-7.

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

1 Bobbili.	2 East Coast.
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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 Mangalore ..	1,284 KW. ..	3 × 250 KW. 2 × 267 KW.	 } Diesel engine ..	3.3 KV.
2 Rajahmundry ..	447 KW. ..	2 × 108 KW. 1 × 235 KW.	 } Do. ..	3.3 KV.
Total for licensees ..	1,731 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 system—				
(a) Pykara Power House.	43,700 KW. ..	3 × 7,310 KVA. ..	 }	Pelton wheel .. 11 KV.
(b) Udipi ..	595 KW. ..	2 × 12,500 KVA. 1 × 115 KW. 1 × 40 KVA. 2 × 224 KW.	 }	Oil engines .. 400 V.
(c) Karkala ..	35 KW. ..	2 × 21.9 KVA. ..	 }	Do. .. 400 V.
2. Moyar system—				
Moyar Power House.	36,000 KW. ..	8 × 12,000 KW. ..	 }	Pelton wheel .. 11 KV.
3. Mettur system—				
Mettur Power House.	40,000 KW. ..	4 × 12,500 KVA. ..	 }	Reaction turbine. 11 KV.
4. Papanasam system—				
(a) Papanasam Power House.	23,000 KW. ..	4 × 7,250 KVA. ..	 }	Reaction turbine. 11 KV.
(b) Madurai Thermal station.	4,000 KW. ..	1 × 4,000 KW. ..	 }	Steam turbine. 11 KV.
5. Madras system—				
(a) Basin Bridge 'A' station.	41,500 KW. ..	2 × 1,500 KW. 1 × 5,000 KW. 1 × 8,000 KW. 1 × 12,500 KW. 1 × 15,000 KW.	 }	Steam turbine. 5 KV.
(b) Villivakkam emergency station.	1,500 KW. ..	1 × 1,500 KW. ..	 }	Do. 5 KV.
(c) Basin Bridge 'C' station.	5,000 KW. ..	2 × 2,500 KW. ..	 }	Do. 5 KV.
6. Andhra system—				
(a) Visakhapatnam ..	6,750 KW. ..	4 × 1,500 KW. 1 × 750 KW. 1,200 KW. ..	 }	Steam turbine. 3.3 KV.
(b) Srikakulam ..	250 KW. ..	2 × 600 KW. 1 × 90 KW. 1 × 85 KW. 1 × 75 KW.	 }	Diesel engine. 11 KV.
(c) Narasannapet ..	45 KW. ..	1 × 20 KW. 1 × 25 KW.	 }	Do. 400 V.
(d) Rajahmundry ..	802 KW. ..	1 × 235 KW. 1 × 267 KW. 1 × 800 KW.	 }	Do. { 400 V. 400 V. 3.3 KV. 3.3 KV. 400 V.
(e) Kakinada ..	1,882 KW. ..	2 × 224 KW. 2 × 267 KW. 1 × 250 KW. 1 × 300 KW. 2 × 175 KW.	 }	Do. { 3.3 KV. 3.3 KV. 400 V. 400 V.
(f) Vijayavada ..	12,000 KW. ..	2 × 1,500 KW. 3 × 3,000 KW.	 }	Steam turbine. 3.3 KV.
(g) Ongole ..	1,000 KW. ..	2 × 500 KW. ..	 }	Diesel engine. 400 V.
(h) Narasaraopet ..	170 KW. ..	2 × 85 KW. ..	 }	Do. 400 V.
7. Rayalaseema system—				
(a) Nellore ..	5,000 KW. ..	2 × 2,500 KW. steam turbines with oil fired boilers.	 }	Steam turbine. 6.6 KV.
(b) Kurnool ..	807 KW. ..	1 × 50 KW. Krupps set 1 × 180 KW. Do. 1 × 150 KW. Worthington set. 1 × 200 KW. Krupps set 1 × 267 KW. Petter set	 }	Diesel engine { 3.3 KV. 3.3 KV. 400 V. 3.3 KV. 400 V.
(c) Cuddapah ..	810 KW. ..	2 × 235 KW. Mirless sets 1 × 170 KW. Petter sets	 }	Do. 400 V.
(d) Tadpatri ..	520 KW. ..	2 × 235 KW. Mirless sets 1 × 50 KW. Carrels Ingersol.	 }	Do. 400 V.
(e) Nandyal ..	470 KW. ..	2 × 235 KW. Mirless sets	 }	Do. 400 V.
(f) Proddatur ..	170 KW. ..	2 × 85 KW. MacLaren sets	 }	Do. 400 V.
(g) Anantapur ..	655 KW. ..	2 × 50 KW. Fans sets 2 × 75 KW. G.M. sets 2 × 85 KW. MacLaren sets 1 × 235 KW. Mirless sets	 }	Do. 400 V.
(h) Sandur ..	84 KW. ..	1 × 35 KW. Cardener set 1 × 22 KW. Parnen set 1 × 27 KW. Crosey set	 }	Do. 400 V.
Total for Government undertakings.	233,115			

Total for licensees	1,731 KW.
Total for Government undertakings	233,115 KW.
Total for State	234,846 KW.

APPENDIX

Table of electric supply cost and

Serial number and name of undertaking.	Year of operation.	Year of account to which the figures refer.	System and supply of voltage.	Total generation or purchase cost per unit in annas.	Working cost per unit sold in annas. [vide Note (2).]
(1)	(2)	(3)	(4)	(5)	(6)
				AS.	AS.
1 Adoni					Taken over by
2 Ambur-Vanlambadi.	15th ..	1951-52 ..	A.C. 200/430 V. 50 cycles.	0.52	1.33
3 Anakapalle ..	14th ..	1951-52 ..			Accounts not
4 Bobbili	14th ..	1951-52 ..	Do.	1.46	3.03
5 Cannanore-Tellicherry.	14th ..	1951-52 ..	Do.	0.49	1.24
6 Chingleputt ..	14th ..	1951-52 ..	Do.	0.57	1.34
7 Chittoor	18th ..	1951-52 ..	Do.	0.65	1.67
8 Devakottai ..	28th ..	1951-52 ..	Do.	0.69	2.40
9 East Coast ..	2nd ..	1951-52 ..	Do.	1.25	4.14
10 East Ramnad ..	14th ..	1951-52 ..	Do.	0.51	1.10
11 East Tanjore ..	18th ..	1951-52 ..	Do.	0.48	1.50
12 Eluru	15th ..	1951-52 ..	Do.	1.24	2.78
13 Fort Cochin ..					Taken over by
14 Gudivada	15th ..	1951-52 ..	A.C. 200/430 V. 50 cycles.	1.43	4.33
15 Guntur	20th ..	1951-52 ..	Do.	1.19	1.88
16 Kanadukathan ..	26th ..	1951-52 ..	Do.	0.61	1.75
17 Karaikudi	22nd ..	1951-52 ..	Do.	0.69	1.08
18 Kasaragod ..	2nd ..	1951-52 ..			Accounts not
19 Kozhikode	23rd ..	1951-52 ..	A.C. 200/430 V. 50 cycles.	0.50	1.37
20 Kumbakonam ..	20th ..	1951 ..	Do.	0.51	2.04
21 Mangalore	19th ..	1951-52 ..	Do.	1.65	3.45
22 Nagapattinam ..	17th ..	1951 ..	Do.	0.56	1.33
23 Nattarasankottai ..	19th ..	1951-52 ..	Do.	0.77	2.73
24 Palghat	19th ..	1951-52 ..	Do.	0.88	2.55
25 Ponnamaravathy ..	14th ..	1951-52 ..	Do.	0.60	1.12
26 Pudukottai ..	24th ..	1951 ..	Do.	0.65	1.88
27 Pudukottai State ..	14th ..	1951-52 ..	Do.	*	†
28 Rajahmundry ..	24th ..	1951-52 ..	Do.		
29 Ramachandrapuram.	26th ..	1951-52 ..	Do.	{(a) 4.04 (b) 2.64 0.70}	4.33 2.25
30 Salem-Erode ..	20th ..	1951-52 ..	Do.	0.50	1.11
31 South Arcot ..	17th ..	1951 ..	Do.	0.45	1.19
32 Srivilliputtur ..					Taken over by
33 Tinnevely-Tuticorin.	19th ..	1951-52 ..	A.C. 200/430 V. 50 cycles.	0.48	1.51
34 Tirumalai-Tirupati.	20th ..	1951-52 ..			Accounts not
35 Trichy-Srirangam.	24th ..	1951-52 ..	A.C. 200/430 V. 50 cycles.	0.35	0.70
36 Vellore	21st ..	1951-52 ..	Do.	0.54	1.48
37 Visakhapatnam ..	18th ..	1951-52 ..			Accounts not

* Included under undertaking
† No separate figure
‡ Including hire and
(a) and (b) Generation and

F-1.

records—Companies.

Revenue per unit sold.				Revenue per unit sold.			Serial number.	
Domestic or residential.		Commercial.		Industrial power.		Public lighting.		
Heat and power.	Light and fan.	Heat and power.	Light and fan.	Low and medium voltage.	High voltage.			
(7)	(8)	(9)	(10)	(11)	(12)			(13)
Government on 25th September 1951.								
1.76	3.79	1.29	1.65	1.04	Nil.	2.00	1	
received.							2	
1.70	4.54	Nil.	3.80	1.41	Nil.	3.44	3	
2.25	5.67	2.41	..	1.76	0.59	3.95†	4	
1.57	4.09	1.89	2.10	1.27	Nil.	2.00	5	
1.47	3.45	2.12	..	1.07	1.01	3.47	6	
†	†	†	†	†	†	†	7	
Nil.	7.60	2.6	Nil.	Nil.	Nil.	4.04	8	
4.25		3.40	..	1.80	..	1.81	9	
4.46		2.94	..	1.20	..	1.88	10	
2.14	5.31		2.00	1.47	..	2.00	11	
Government on 15th June 1951.							12	
1.83	4.58	2.17	4.58	1.81	..	3.17	13	
2.50	4.38	2.50	4.54	1.84	1.41	1.96	14	
1.89	4.60	1.79	2.92	1.05	..	1.81	15	
1.40	3.30	1.50	3.20	0.90	..	1.50	16	
received.							17	
1.64	3.08	1.74		1.12	0.84	1.78	18	
1.99	4.29	1.91	2.00	1.05	..	1.96	19	
2.40	5.42	2.39	4.18	2.19	..	2.00	20	
1.68	4.15	1.47	3.93	1.18	0.62	1.92	21	
2.32	5.5	..	3.93	1.26	..	2.00	22	
1.67	3.82	1.44	*	0.90	..	2.82	23	
2.40	4.07	2.40	4.07	1.28	0.61	2.28	24	
1.29	3.04	1.76	2.96	1.80	0.72	2.00	25	
4.00	..	2.60	..	0.58	..	1.97	26	
2.00	6.00	1.58	4.25	1.88	..	3.00	27	
2.88	4.35	..	4.46	1.15	..	2.75	28	
1.61	3.56	1.86	2.96	0.86	0.62	1.88	29	
1.93	5.10	0.89	3.52	1.07	0.74	3.47†	30	
Government on 21st September 1951.							31	
1.90	4.02	1.25	1.17	0.89	0.54	1.45	32	
received.							33	
3.60		1.80	..	0.58	..	1.58	34	
1.66	3.20	2.00		1.00	0.65	2.40†	35	
received.							36	
Item No. 35.							37	
furnished.								
maintenance.								
purchase.								

APPENDIX

Table of electric supply cost and

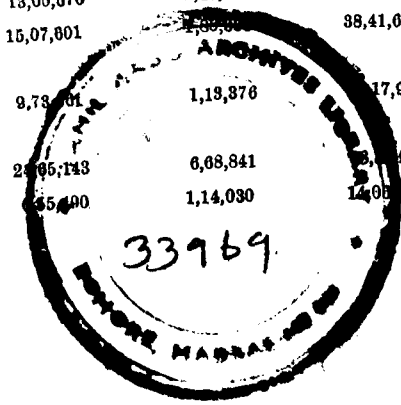
Serial number and name of undertaking.	Year of operation.	Year of accounts to which the figures refer.	Revenue per unit sold—cont.			
			Traction.	Irriga- tion.	Public water works and sewage pumping.	Supplies in bulk to distributing licences.
			(14)	(15)	(16)	(17)
1 Adoni						Taken over
2 Ambur-Vaniambadi ..	15th ..	1951-52 ..	Nil.	0.93	Nil.	Nil.
3 Anakapalle	14th ..	1951-52 ..				Account not
4 Bobbili	14th ..	1951-52 ..	Nil.	Nil.	Nil.	Nil.
5 Cannanore- Tellecherry.	14th ..	1951-52 ..	Nil.	1.00	Nil.	Nil.
6 Chingleput	14th ..	1951-52 ..	Nil.	0.98	0.87	0.75
7 Chittoor	18th ..	1951-52 ..	Nil.	1.07	..	..
8 Devakottai	28th ..	1951-52 ..	..	..	..	..
9 East Coast	2nd ..	1951-52 ..	Nil.	Nil.	Nil.	Nil.
10 East Ramnad	14th ..	1951-52 ..	..	1.63	1.42	0.61
11 East Tanjore	18th ..	1951-52 ..	..	1.70	1.28	0.60
12 Eluru	15th ..	1951-52 ..	..	1.50	1.15	..
13 Fort Cochin						Taken over
14 Gudivada	15th ..	1951-52 ..	..	1.17	..	..
15 Guntur	20th ..	1951-52 ..	..	1.43	1.04	..
16 Kanadukathan	28th ..	1951-52 ..	..	3.11	..	10.72
17 Karalkudi	22nd ..	1951-52 ..	..	1.20	1.70	..
18 Kasaragod	2nd ..	1951-52 ..				Account not
19 Kozhikode	23rd ..	1951-52 ..	..	..	..	..
20 Kumbakonam	20th ..	1951 ..	..	1.75	0.98	..
21 Mangalore	19th ..	1951-52 ..	..	2.09	..	..
22 Nagapattinam	17th ..	1951 ..	..	1.24	0.75	..
23 Nattarasankottai ..	19th ..	1951-52 ..	..	1.04	..	..
24 Palghat	19th ..	1951-52 ..	..	1.10	..	..
25 Ponnamaravathy ..	14th ..	1951-52 ..	..	1.38	..	0.63
26 Pudukottai	24th ..	1951 ..	..	..	0.90	..
27 Pudukottai State ..	14th ..	1951-52 ..	..	1.81	..	0.56
28 Rajahmundry	24th ..	1951-52 ..	..	1.75	1.08	..
29 Ramachandrapuram.	20th ..	1951-52 ..	..	1.75	..	..
30 Salem-Erode	20th ..	1951-52 ..	..	0.86	..	..
31 South Arcot	17th ..	1951 ..	..	1.09	0.97	..
32 Srivilliputtur						Taken over
33 Tirunelveli-Tuticorin.	19th ..	1951-52 ..	..	1.23	0.58	..
34 Tirumalai-Tirupathi.	20th ..	1951-52 ..				Account not
35 Tiruchirappalli - Sri- rangam.	24th ..	1951-52 ..	..	0.95	0.63	..
36 Vellore	21st ..	1951-52 ..	..	1.00	0.80	..
37 Visakhapatnam	18th ..	1951-52 ..				Account not

* No separate figure

F-1—cont.

records—Companies—cont.

Revenue per unit sold (over-all).	Total operating cost including depreciation.	Revenue from electric supply only.	Total revenue from working.	Net profit from balance- sheet (+) or (-).	Total capital expenditure up to the end of the year.	Serial number.
(18)	(19)	(20)	(21)	(22)	(23)	
RS.	RS.	RS.	RS.	RS.	RS.	
Government on 25th September 1951.						
1.54	2,49,609	2,89,981	3,22,419	37,239	7,69,199	1
received.						2
3.72	60,418	52,572	74,290	(—) 2,537	81,401	3
1.54	4,09,857	5,12,074	5,40,007	51,405	9,02,920	4
1.46	1,10,837	1,30,879	1,13,040	21,763	3,04,702	5
2.12	1,25,943	1,42,153	1,51,642	19,651	3,20,360	6
3.10	98,552	1,03,750	1,22,501	18,481	3,27,661	7
5.68	8,723	10,318	11,984	2,596	73,738	8
1.13	4,33,020	4,70,671	5,44,768	(—) 82,035	16,90,545	9
1.83	9,85,233	11,20,366	12,46,951	(—) 1,06,323	41,37,144	10
2.97	1,93,752	2,15,489	2,40,420	24,969	4,62,305	11
Government on 15th June 1951.						
4.83	1,06,561	71,206	1,27,423	3,834	1,64,627	12
2.25	7,53,202	8,02,971	9,02,700	1,28,338	12,01,198	13
1.76	1,57,727	1,56,113	1,84,365	20,532	3,02,088	14
2.24	1,52,787	1,65,578	1,73,396	29,390	5,42,863	15
received.						16
1.60	5,80,660	6,76,600	7,31,684	1,01,599	17,57,188	17
2.63	5,50,712	6,50,422	7,10,183	82,848	20,50,439	18
3.66	6,48,864	6,87,473	7,45,044	78,002	16,40,748	19
1.60	2,07,921	3,10,844	3,53,477	30,165	3,17,308	20
3.18	62,816	71,234	80,261	16,695	2,40,667	21
2.93	1,90,735	2,20,504	2,36,960	24,844	3,04,906	22
1.16	1,31,859	1,29,084	1,49,594	23,890	4,18,853	23
2.03	1,46,992	1,53,841	1,72,130	7,012	4,67,032	24
0.64	2,33,013	2,52,553	2,82,250	41,791	7,72,717	25
4.50	4,01,642	3,43,659	4,79,264	(—) 22,989	6,12,983	26
2.47	66,803	73,183	81,753	12,302	4,62,065	27
1.27	10,33,473	12,40,323	13,00,870	1,46,820	25,63,495	28
1.32	13,04,691	14,41,817	15,07,601	1,39,300	38,41,639	29
Government on 21st September 1951.						
1.64	7,67,459	8,34,962	9,73,401	1,13,376	17,934	30
received.						31
0.80	18,64,136	22,72,689	24,95,143	6,68,841	3,98,937	32
1.63	5,40,789	6,15,687	55,490	1,14,030	14,08,197	33
received.						34
furnished.						35

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APPENDIX

Table of electric supply cost and

Serial number and name of undertaking.	Year of operation.	Year of account to which the figures refer.	Depreciation for the year.	Depreciation fund at the end of the year.	Other reserves.	Total capacity of generating or receiving plants.	Maximum load on the feeders.
			(24)	(25)	(26)	(27)	(28)
			RS.	RS.	RS.		
1 Adoni							Taken over by
2 Ambur-Vaniambadi.	15th	1951-52 ..	31,194	1,79,542	12,323	Not given.	850 K.W.
3 Anakapalle ..	14th	1951-52 ..					Accounts not
4 Bobbili	14th	1951-52 ..	4,399	32,467	Nil.	Do.	180 K.W.
5 Cannanore-Tellicherry.	14th	1951-52 ..	37,225	2,07,247	47,106	Do.	1,390 K.W.
6 Chingleput ..	14th	1951-52 ..	13,361	89,599	6,146	Do.	389 K.W.
7 Chittoor	18th	1951-52 ..	12,514	1,07,010	17,151	Do.	420 K.W.
8 Devakottal ..	28th	1951-52 ..	11,291	1,38,060	4,294	Do.	261 K.W.
9 East Coast ..	2nd	1951-52 ..	2,876	2,876	329	100 K.V.A.	20 K.W.
10 East Ramnad ..	14th	1951-52 ..	48,156	3,53,154	10,100	Not given.	1,930 K.W.
11 East Tanjore ..	18th	1951-52 ..	1,39,167	10,58,017	22,754	Do.	3,249 K.W.
12 Eluru	15th	1951-52 ..	15,013	1,29,321	31,718	Do.	380 K.W.
13 Fort Cochin ..							Taken over by
14 Gudivada ..	15th	1951-52 ..	5,547	39,518	1,571	..	159 K.W.
15 Guntur	20th	1951-52 ..	37,832	8,86,521	29,625	..	1,474 K.W.
16 Kanadukathan ..	28th	1951-52 ..	25,529	2,00,102	6,940	..	400 K.W.
17 Karalkudi ..	22nd	1951-52 ..	28,599	2,16,856	776	..	375 K.W.
18 Kasargod ..	2nd	1951-52 ..					Accounts no
19 Kozhikode ..	23rd	1951-52 ..	54,620	5,06,699	1,39,748	..	1,928 K.W.
20 Kumbakonam ..	20th	1951 ..	72,158	6,01,033	1,42,084	..	1,224 K.W.
21 Mangalore ..	19th	1951-52 ..	46,547	6,65,750	85,055	1,234 K.W.	976 K.W.
22 Nagapattinam ..	17th	1951 ..	31,581	2,17,609	30,000	..	1,290 K.W.
23 Nattarasankottal ..	19th	1951-52 ..	7,947	89,293	2,260	213 K.W.	165 K.W.
24 Palghat	19th	1951-52 ..	13,210	1,64,642	20,317	..	555 K.W.
25 Ponnamaravathy ..	14th	1951-52 ..	16,224	1,21,815	2,705	821 K.V.A.	465 K.W.
26 Pudukkottal ..	24th	1951 ..	17,954	1,49,066	1,05,793	..	438 K.W.
27 Pudukkottal State ..	14th	1951-52 ..	22,820	1,04,911	5,544	Not given.	†
28 Rajahmundry ..	24th	1951-52 ..	13,626	3,33,692	24,143	120 K.W. (Generating).	500 K.W.
29 Ramasandrapuram.	26th	1951-52 ..	14,588	2,04,595	5,433	..	192 K.W.
30 Salem-Erode ..	20th	1951-52 ..	80,152	8,59,333	4,03,265	..	3,945 K.W.
31 South Arcot ..	17th	1951 ..	1,52,393	8,71,526	1,51,145	..	4,209 K.W.
32 Srivilliputtur ..							Taken over by
33 Tirunelveli-Tutukudi	19th	1951-52 ..	74,404	8,34,713	3,74,176	..	2,390 K.W.
34 Tirumalai-Tirupattur.	20th	1951-52 ..					Accounts not
35 Tiruchirappalli-Srirangam.	24th	1951-52 ..	2,13,664	16,63,700	2,75,815*	Not given.	10,056 K.W.
36 Vellore	21st	1951-52 ..	50,999	3,76,130	1,81,769	..	1,720 K.W.
37 Visakhapatnam ..	18th	1951-52 ..					Accounts no

* This figure includes General reserves of other undertakings.
† Included under undertaking.
‡ Correct figures.

NOTE.—(1) This form has been modified in line with the model form of accounts prescribed by Government in G.O. Ma. No. 537, P.W., dated 7th February 1951.
(2) This is the same as "cost per K.W. sold" given as item 17 of the summary of financial particulars of the above prescribed form.

F-1—cont.

records—Companies—cont.

Total units generated for the year.	Total units purchased for the year.	Load factor.	Total units sold for the year.	Total number of consumers at the end of the year.	Dividend declared on ordinary shares.	Serial number.
(29)	(30)	(31)	(32)	(33)	(34)	
PER CENT.						
Government on 25th September 1951.						
Nil.	3,635,300	40.24	3,005,216	2,947	8.75 per cent tax-free.	1
received.						2
Nil.	395,271	28.01	319,797	472	Nil.	3
Nil.	5,886,540	43.46	5,806,418	3,507	10 per cent tax-free.	4
Nil.	1,633,527	41.94	1,432,867	1,150	6.875 per cent tax-free.	5
Nil.	1,281,887	28.99	1,068,624	1,745	7 per cent tax-free.	6
Nil.	790,993	27.51	630,748	1,536	4 per cent tax-free.	7
Nil.	31,558	†	†	73.	Nil.	8
..	7,254,482	37.14	6,295,664	4,920	7.5 per cent tax-free.	9
..	123,69,447	34.69	9,900,522	14,985	Do.	10
..	1,348,494	34.69	1,158,165	2,233	6½ per cent tax-free.	11
Government on 15th June 1951.						
..	437,238	28.38	396,406	391	3 per cent tax-free.	12
..	7,406,171	49.46	6,404,144	4,144	10 per cent tax-free.	13
..	1,732,591	40.32	1,417,259	2,146	3 per cent tax-free.	14
..	1,440,257	35.83	1,181,532	1,969	Do.	15
received.						16
..	7,993,609	39.98	6,771,075	4,707	10 per cent tax-free.	17
..	5,459,455	40.34	4,326,220	9,724	8½ per cent tax-free.	18
3,580,920	..	35.10	3,008,500	3,972	10 per cent tax-free.	19
..	3,891,391	31.64	3,576,002	3,561	7½ per cent tax-free.	20
..	501,303	27.89	404,310	1,099	4 per cent tax-free.	21
..	1,538,290	26.51	1,292,066	2,799	6 per cent tax-free.	22
..	1,897,901	42.48	1,775,962	1,595	Do.	23
..	1,420,023	32.53	1,249,563	2,162	10 per cent tax-free.	24
..	†	†	†	390	7½ per cent tax-free.	25
225,974	1,692,640	38.86	1,706,940	1,773	3 per cent tax-free.	26
..	597,324	28.03	473,663	1,163	3 per cent.	27
..	13,006,526	45.05	15,606,592	11,943	10 per cent tax-free.	28
..	22,433,364	47.56	17,496,679	7,790	6½ per cent tax-free.	29
Government on 21st September 1951.						
..	9,468,975	38.66	8,115,701	10,693	10 per cent tax-free.	30
received.						31
..	53,093,662	53.92	47,639,463	19,421	7½ per cent tax-free.	32
..	6,588,833	38.50	5,815,034	7,170	10 per cent tax-free.	33
received.						34

undertakings—Item Nos. 10, 11 and 27.
item No. 35.

not furnished.
prescribed by Government in G.O. Ma. No. 537, P.W., dated 7th February 1951.
summary of financial particulars of the above prescribed form.

APPENDIX F-2.

Table of electric supply costs and records—Local authorities.

Serial number and name of undertaking.	Year of operation.	Year of account to which the figures relate.	System and voltage of supply.	Revenue per unit sold.							Total expenditure against revenue—See Note (2).	Revenue from electric supply.
				Total purchase cost per unit.	Working cost per unit sold—See Note (2).	Lights and	Power.	Special contract.	Street lighting.	Total—See Note (3).		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
				AS.	AS.	AS.	AS.	AS.	AS.	AS.	RS.	RS.
1 Bodinayakanur ..	17th ..	1951-52 .. (unaudited)	A.C. 200/430 V. 50 cycles	0.69	2.37	3.98	1.06	1.45	2.00	2.70	62,092	60,317
2 Coimbatore ..	19th ..	1951-52 ..	Do. ..	0.53	1.56	3.05	0.98	0.70	1.26	2.38	7,18,759	9,25,427
3 Karur ..	16th ..	1951-52 .. (unaudited)	A.C. 400/230 V. 50 cycles.	0.67	1.52	4.24	0.88	..	2.00	2.26	1,02,387	1,43,667
4 Madurai ..	25th ..	1951-52 .. (unaudited)	A.C. 200/430 V. 50 cycles.	0.43	1.30	2.85	1.23	0.73	1.25	2.00	9,31,348	12,65,163
5 Masulipatnam ..	19th ..	1951-52 .. (unaudited)	Do. ..	1.13	3.22	5.41	1.34	0.87	2.31	3.85	1,80,934	1,91,072
6 Pollachi ..	19th ..	1951-52 ..	Do. ..	0.59	1.53	3.78	0.96	..	2.00	1.98	1,72,274	1,88,923
7 Tanjore ..	24th ..	1951-52 ..	Do. ..	0.54	1.67	3.15	0.93	0.62	1.76	2.15	2,98,527	3,24,903
8 Tirupattur (North Arcot) ..	14th ..	1951-52 ..	Do. ..	0.67	1.97	3.74	1.10	..	2.00	2.29	73,565	79,948
9 Vijayavada ..	22nd ..	1951-52 .. (unaudited)	Do. ..	1.13	2.08	3.68	1.10	1.19	1.85	2.11	5,53,330	5,43,667

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Serial number and name of undertaking.	Total revenue from working note (3).	Net profit (+) or loss (-) 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.	Total capacity.	Maximum load on the feeders.	Units generated.	Units purchased.	Load factor (per centage).	Total number of units sold.	Total number of consumers at the end of the year.
	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
	RS.	RS.	RS.	RS.							
1 Bodinayakanur ..	70,769	Nil.	6,048	1,49,456	200 KVA	162 KW	..	494,790	29.59	419,908	839
2 Coimbatore ..	10,95,255	+ 3,84,312	45,179	16,23,187	3,100 KVA	2,850 KW	..	8,593,006	29.50	7,364,082	9,835
3 Karur ..	1,52,820	+ 85,531	8,806	2,17,233	425 KVA	303 KW	..	1,139,707	40.65	1,078,950	1,377
4 Madurai ..	14,46,987	+ 8,65,935	Nil.	22,93,864	5,100 KW	3,740 KW	..	13,362,505	35.05	11,481,857	14,614
5 Masulipatnam ..	2,17,547	+ 71,675	17,548	2,72,249	308 KW	320 KW	..	1,044,377	32.04	893,167	1,338
6 Pollachi ..	2,16,185	+ 22,021	12,575	2,87,154	1,250 KVA	510 KW	..	2,100,862	38.94	1,739,886	1,716
7 Tanjore ..	3,85,898	+ 1,73,511	22,640	7,41,081	1,300 KVA	870 KW	..	3,413,871	37.63	2,867,529	3,636
8 Tirupattur (North Arcot) ..	85,440	+ 11,316	12,223	1,78,748	275 KVA	205 KW	..	6,74,150	33.2	596,201	1,293
9 Vijayavada ..	6,08,971	+ 41,295	36,219	5,27,128	..	1,402 KW	..	5,118,466	34.94	4,290,875	3,172

NOTE.—(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.

APPENDICES

APPENDIX F.3.

Statistical data for the administration report for the year ending 31st March 1953 (Company licensees).

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1952-53.

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 Anakapalle ..	..	6,99,788	5,37,926	232	(a) 23 (b) 39,193 (c) Ra. 9,354 (d) 11	..	..	..	..	..	..	219 1,54,271 Ra. 12,972 31
2 Amber-Vaniyambadi ..	..	33,23,067	27,33,999	730	(a) 53 (b) 1,36,077 (c) Ra. 25,407 (d) 13	..	..	..	..	..	..	1,097 5,06,807 Ra. 39,735 111
3 Bobbili ..	..	5,17,878	4,26,219	168	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	474 2,56,788 Ra. 30,155 32
4 Kothikode ..	..	..	..	..	..	..	..	..	..	..	..	..
5 Chittoor ..	..	12,49,320	10,51,350	370	(a) 53 (b) 94,804 (c) Ra. 17,114 (d) 9	..	..	..	..	400 1,50,102 Ra. 11,560 2	..	586 2,37,535 Ra. 14,187 74
6 Chingleput ..	..	15,72,773	13,91,161	437	(a) 24 (b) 47,390 (c) Ra. 5,924 (d) 6	..	..	..	..	..	..	363 1,20,480 Ra. 11,233 29
7 Cannanore-Tellicherry ..	..	55,54,631	42,35,114	1,460	(a) 48 (b) 1,15,512 (c) Ra. 23,648 (d) 3	1,253 30,81,054 Ra. 1,12,756 2	..	..	..	..	..	1,498 5,80,998 Ra. 64,862 122
8 Devakottah ..	..	7,69,260	5,90,874	254	(a) 62 (b) 1,36,569 (c) Ra. 15,839 (d) 16	..	..	..	..	..	..	277 1,25,976 Ra. 9,478 31
9 East Tanjore ..	..	1,08,67,606	84,90,913	2,750	(a) 81 (b) 2,41,234 (c) Ra. 29,637 (d) 33	..	..	..	..	..	..	6,317 33,63,208 Ra. 2,37,963 633

Correct particulars not available. The licensee has been addressed again in this matter.

10 East Ramana-thayuram ..	..	73,76,595	64,13,473	1,960	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	1,503 8,38,055 Ra. 74,069 122
11 East Coast ..	..	40,826	41,909	20	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	..
12 Nellore ..	..	16,96,251	14,66,800	470	(a) 123 (b) 2,65,788 (c) Ra. 36,752 (d) 19	..	..	..	..	..	..	749 5,53,693 Ra. 61,588 80
13 Guntur ..	..	72,30,838	61,79,661	1 point of supply and 11 points of supply 75 K.V.A.	(a) 42 (b) 28,240 (c) Ra. 5,352 (d) 21	303 9,49,079 Ra. 56,625 1	..	..	..	..	..	1,605 15,52,219 Ra. 1,56,147 191
14 Guduvada ..	..	..	..	..	..	..	..	..	..	..	..	..
15 Kanadukathan ..	..	16,42,827	12,99,647	506	(a) 506 (b) K.V.A. (c) .. (d) ..	..	..	..	..	..	..	418 1,76,286 Ra. 12,115 38
16 Kumbakonam ..	..	54,47,653	42,94,463	1,628	(a) 53 (b) 1,58,080 (c) Ra. 18,727 (d) 1	..	..	..	..	..	..	2,686 15,67,270 Ra. 1,17,399 364
17 Karaikal ..	..	14,04,630	11,52,105	509	(a) 51 (b) 1,36,175 (c) Ra. 18,238 (d) 23	..	..	..	..	..	..	320 2,51,835 Ra. 14,928 50
18 Mangalore ..	..	37,71,792	32,25,868	1,039	(a) 101 (b) 2,37,208 (c) Ra. 49,303 (d) 1	..	..	..	..	..	..	2,024 12,61,987 Ra. 2,61,993 161
19 Nagapattinam ..	..	41,33,390	35,83,632	1,290	(a) 11 (b) 4,741 (c) Ra. 1,400 (d) 23	..	..	..	..	..	..	2,467 20,56,140 Ra. 80,077 1
20 Nattarasankottai ..	..	4,40,880	3,54,376	150	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	201 1,34,637 Ra. 11,397 28
21 Palghat ..	..	16,65,602	13,67,382	535	(a) 48 (b) 1,06,327 (c) Ra. 19,637 (d) 19	..	..	..	..	..	..	531 3,66,442 21,249 65
22 Rajahmundry ..	..	1,16,071	19,25,927	545	(a) 149 (b) 5,64,116 (c) Ra. 51,430 (d) 25	..	..	..	..	..	..	447 3,69,554 Ra. 41,294 119

Particulars not received.

APPENDICES

Statistical data for the administration report for the year ending 31st March 1953 (Company licensees)—cont.

Total connected load in K. W. with consumption, revenue and number of consumers at the end of 1952-53.

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)
23 Salem-Erode ..	..	1,56,40,107	1,35,75,287	3,923	(a) 167 (b) 4,33,514 (c) Ra. 35,627 (d) 2	1,787 43,65,773 Ra. 1,53,764 4	..	..	..	..	..	5,915 49,58,201 Ra. 2,80,921 356
24 South Arcot ..	..	..	..	..	..	..	..	..	..	..	..	..
25 Tiruchirappalli-Srirangam.	..	4,76,93,082	3,74,45,891	5,520 K. W. 4,540 K. V. A.	(a) 222 (b) 19,36,166 (c) Ra. 1,23,194 (d) 56	676 11,35,700 Ra. 45,124 1	6,126 1,96,63,376 Ra. 4,59,988 2	..	..	492 13,24,180 Ra. 48,159 1	..	5,312 40,23,477 Ra. 8,29,734 705
26 Tirunelveli-Tuticorin.	..	94,45,760	80,02,651	2,440	(a) 257 (b) 7,93,351 (c) Ra. 50,598 (d) 6	1,998 26,45,896 Ra. 1,02,760 4	..	..	..	..	..	3,413 17,99,872 Ra. 1,35,007 391
27 Tirumalai-Tirupati.	..	..	..	..	..	..	..	..	..	..	..	..
28 Vellore ..	..	40,98,893	34,97,169	1,030	(a) 117 (b) 4,15,166 (c) Ra. 47,333 (d) 3	..	..	..	..	..	..	1,393 5,46,309 Ra. 44,007 117
29 Visakhapatnam ..	..	40,71,245	34,19,223	1,234 K. V. A.	(a) 108 (b) 2,54,592 (c) Ra. 27,184 (d) 29	..	..	..	..	..	..	635 2,92,479 Ra. 28,826 98
30 Pudukkottai State ..	..	Included under Tiruchirappalli-Srirangam.	57,41,782	Included under Tiruchirappalli-Srirangam.	(a) .. (b) .. (c) .. (d) ..	1,042 24,70,601 Ra. 96,748 2	..	..	..	..	..	238 69,221 Ra. 5,320 23
31 Pudukkottai ..	..	14,55,146	12,61,900	450	(a) 53 (b) 2,09,054 (c) Ra. 21,004 (d) 10	143 2,21,909 Ra. 11,340 3	..	..	..	..	..	521 2,30,074 Ra. 21,047 91

32 Ramachandrapuram ..	..	4,68,930	3,39,366	178	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	367 1,02,431 Ra. 13,587 22
33 Pondamavathy ..	..	16,09,700	14,75,654	280	(a) .. (b) .. (c) .. (d) ..	566 5,94,498 Ra. 26,397 1	..	..	..	..	..	276 72,842 Ra. 6,946 27
34 Kanara Ceramics, Kasaragod, sanctioned under Sec. 24	..	1,04,340	80,239	80	(a) .. (b) .. (c) .. (d) ..	..	..	..	..	..	..	90 19,286 Ra. 4,089 7

NOTE.—(a) Connected load in K. W.
(b) Consumption in units.
(c) Revenue in rupees.
(d) Number of consumers.

APPENDIX F-3—cont.

Statistical data for the administration report for the year ending 31st March 1953 (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 1952-53—cont.					Number of high-tension and low-tension consumers as on 31st March 1953.					Rural electrification.				
	Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1952-53—cont.					Number of high-tension and low-tension consumers as on 31st March 1953.					Rural electrification.				
	Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1952-53—cont.					Number of high-tension and low-tension consumers as on 31st March 1953.					Rural electrification.				
	Railways.	Government departments.	Panchayat boards.	Agricultural.	Domestic lighting and power.	Miscellaneous.	Total connected load in K.W.	High-tension.	Low-tension.	As on 31st March 1953.	Number.	As on 31st March 1953.	Number.	Connected during the year 1952-53.	Horse-power.
	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
1 Anapalle ..	(a) 10 (b) 1,101 (c) Rs. 173 (d) 1	8 9,262 Rs. 1,739 8	.. .. .. ..	19 10,094 Rs. 1,01,890 885	448 3,44,941 Rs. 3,23,643 913	21 29,050 Rs. 3,23,643 913	753 5,87,926 Rs. 1,30,543 913	..	913	5	25	1	5	..	..
2 Ambur-Vaniyambadi.	(a) 13 (b) 25,464 (c) Rs. 3,561 (d) 2	3 2,144 Rs. 576 5	335 Rs. 81 2	1,276 14,71,351 Rs. 94,106 281	989 5,03,546 Rs. 1,44,766 2,633	29 23,257 Rs. 2,40,513 20	3,483 27,33,093 Rs. 3,35,136 3,071	..	3,071	281	1,680	13	51	..	..
3 Bobbili ..	(a) .. (b) .. (c) .. (d) ..	4 4,817 Rs. 1,278 8	6 10,970 Rs. 2,746 3	42 4,119 Rs. 342 8	137 1,09,392 Rs. 4,142 482	5 40,333 Rs. 7,507 1	718 4,26,319 Rs. 82,563 504	..	504	..	..	..	..	..	..
4 Kozhikode ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5 Chittoor ..	(a) 2 (b) 5,533 (c) Rs. 1,049 (d) 1	14 24,479 Rs. 6,832 35	.. .. .. ..	372 1,51,319 Rs. 10,056 88	930 2,51,148 Rs. 73,141 1,614	16 26,127 Rs. 3,902 1,856	2,378 10,51,350 Rs. 1,37,864 1,856	2	1,824	88	494	14	71	..	..
6 Chingleput ..	(a) 21 (b) 62,119 (c) Rs. 5,156 (d) 1	43 94,820 Rs. 9,140 17	.. .. .. ..	567 6,74,569 Rs. 46,618 170	415 2,12,240 Rs. 47,467 1,019	49 1,79,572 Rs. 9,619 2	1,487 13,91,161 Rs. 1,29,127 1,244	..	1,244	170	756	24	92	..	..
7 Cannanore-Tellicherry	(a) 22 (b) 41,503 (c) Rs. 8,733 (d) 4	7 13,200 Rs. 5,420 14	5 6,475 Rs. 1,700 4	6 715 Rs. 45 1	1,506 2,97,625 Rs. 77,005 1,538	5 16,672 Rs. 1,06,779 1,608	434 5,90,874 Rs. 4,75,433 3,800	3	3,797	1	8	..	..	..	..
8 Devakottal ..	(a) .. (b) .. (c) .. (d) ..	2 900 Rs. 162 ..	.. .. .. ..	51 13,132 Rs. 1,619 19	1,67 2,97,625 Rs. 77,005 1,538	5 16,672 Rs. 1,06,779 1,608	1,561 5,90,874 Rs. 4,75,433 3,800	..	1,608	3	15	2	10	..	..
9 East Tanjore	(a) 89 (b) 1,93,813 (c) Rs. 24,266 (d) 35	26 15,278 Rs. 3,447 46	160 4,23,823 Rs. 50,436 442	701 1,08,372 Rs. 18,101 151	4,739 24,85,196 Rs. 6,18,508 14,033	875 15,66,419 Rs. 75,012 22	12,907 84,90,913 Rs. 11,10,883 15,393	4	15,394	151	940	29	106	..	..
10 East Ramanur Puram.	(a) 234 (b) 197,415 (c) Rs. 10,676 (d) 6	61 39,619 Rs. 3,742 18	76 284,078 Rs. 36,012 294	416 413,798 Rs. 32,219 98	2,126 712,304 Rs. 2,01,261 4,570	6,707 3,984,204 Rs. 155,374 3	11,125 6,418,473 Rs. 5,111 ..	6	5,105	98	557	3	107	..	..
11 East Coast ..	(a) 6 (b) 6,198 (c) Rs. 1,537 (d) 1	.. .. .. ..	.. .. .. ..	.. .. .. ..	.. .. .. ..	.. .. .. ..	.. .. .. ..	.. .. .. ..	..	..	..	..	..	..	..
12 Nellore ..	(a) 5 (b) 19,439 (c) Rs. 4,402 (d) 2	19 26,447 Rs. 6,841 21	.. .. .. ..	50 12,592 Rs. 9,30 11	717 587,161 Rs. 1,71,781 2,382	.. .. .. ..	1,665 1,465,800 Rs. 282,360 2,516	..	2,516	..	..	..	..	..	..
13 Guntur ..	(a) 20 (b) 119,880 (c) Rs. 11,121 (d) 2	84 92,869 Rs. 15,720 39	10 14,649 Rs. 1,823 4	647 236,968 Rs. 24,415 191	1,860 1,438,924 Rs. 446,238 4,489	917 1,602,333 Rs. 106,822 15	5,437 6,179,661 Rs. 832,253 5,133	5	5,143	101	863	16	30	..	..
14 Gudivada ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15 Kanadukathan ..	(a) 5 (b) 4,052 (c) Rs. 564 (d) 1	2 1,031 Rs. 134 3	6 1,795 Rs. 481 13	51 5,923 Rs. 994 20	1,528 277,470 Rs. 74,319 1,537	932 833,091 Rs. 63,569 489	3,012 1,299,647 Rs. 152,476 2,161	..	2,159	..	..	..	..	..	..
16 Kumbakonam ..	(a) 49 (b) 94,439 (c) Rs. 16,108 (d) 12	21 14,732 Rs. 3,083 17	81 157,806 Rs. 26,576 60	304 75,015 Rs. 8,960 63	4,007 2,154,356 Rs. 530,922 10,514	28 72,765 Rs. 4,579 1	7,132 4,294,463 Rs. 726,350 11,084	..	11,084	51	224	15	73	..	..
17 Karaikudi ..	(a) 16 (b) 43,668 (c) Rs. 4,277 (d) 2	105 27,372 Rs. 2,945 8	.. .. .. ..	29 4,093 Rs. 308 12	1,681 638,923 Rs. 1,29,013 2,029	.. .. .. ..	2,204 1,152,105 Rs. 169,749 2,125	..	2,125	13	37	3	12	..	..
18 Mangalore ..	(a) 36 (b) 71,555 (c) Rs. 15,653 (d) 3	191 90,439 Rs. 23,310 61	.. .. .. ..	37 4,070 Rs. 854 14	2,439 1,313,272 Rs. 458,332 3,937	283 254,737 Rs. 64,261 23	5,081 3,295,883 Rs. 873,819 4,223	..	4,223	..	..	..	..	..	..
19 Nagapattinam ..	(a) 21 (b) 57,691 (c) Rs. 8,817 (d) 10	14 18,070 Rs. 4,295 28	269 Rs. 81 4	3,789 Rs. 309 8	662,652 Rs. 178,335 Rs. 3,883 462	115 345,222 Rs. 27,166 107	5,453 3,588,632 Rs. 335,651 4,162	1	4,161	8	26	1	6	..	..
20 Nattarasankottai ..	(a) 8 (b) 8,603 (c) Rs. 2,852 (d) 1	2,980 Rs. 1,197 10	8 52,127 Rs. 9,643 7	7,823 Rs. 723 9	183,949 Rs. 52,539 Rs. 935	14,252 Rs. 3,550 189	354,376 Rs. 81,405 1,129	..	1,129	9	37	..	..	..	..
21 Palghat ..	(a) 23 (b) 61,116 (c) Rs. 4,766 (d) 2	22 24,686 Rs. 4,527 23	.. .. .. ..	72 38,943 Rs. 3,158 66	886 769,363 Rs. 164,117 2,734	.. .. .. ..	1,580 1,367,382 Rs. 217,374 2,959	..	2,959	..	..	..	..	..	..
22 Rajahmundry ..	(a) 33 (b) 81,108 (c) Rs. 12,998 (d) 3	131 144,245 Rs. 33,312 63	4 3,868 Rs. 967 5	8 1,416 Rs. 120 4	578 617,489 Rs. 230,233 745	68 120,671 Rs. 15,036 7	1,413 1,902,376 Rs. 385,470 1,971	1	1,970	1	1	..	..	..	..
23 Salem-Erode ..	(a) 63 (b) 176,478 (c) Rs. 11,157 (d) 5	.. .. .. ..	28 67,245 Rs. 6,304 5	828 440,857 Rs. 23,933 154	5,339 3,235,129 Rs. 596,340 12,092	.. .. .. ..	.. .. .. ..	14,187 13,575,287 Rs. 1,110,046 12,818	5	12,813	154	920	24	104	..

Correct particulars not available. The licensee has been addressed again in this matter.

APPENDIX F-3—cont.

Statistical data for the administration report for the year ending 31st March 1953 (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 1952-53—cont.					Number of high-tension and low-tension consumers as on 31st March 1953.					Rural electrification.		
	Railways.	Govern-ment depart-ments.	Panchayat Boards.	Agricultural.	Domestic lighting and power.	Miscellaneous.	Total.	High tension.	Low tension.	As on 31st March 1953.	Number.	Horse-power.	Connected during the year 1952-53.
24 South Arcot ..	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)
25 Tiruchirappalli-Srirangam.	(a) 240 (b) 198,207 (c) Rs. 22,931 (d) 29	83 302,940 Rs. 31,607 70	16 261,564 Rs. 32,373 248	3,069 2,057,075 Rs. 152,343 821	8,220 4,648,273 Rs. 990,232 18,626	392 1,604,933 Rs. 71,053 11	25,348 37,445,391 Rs. 2,299,300 20,570	5	20,565	821	4,002	230	1,168
26 Tirunelveli-Tuticorin.	(a) 51 (b) 129,927 (c) Rs. 8,902 (d) 4	Not separately classified.	2 4,879 Rs. 501 1	185 95,602 Rs. 5,507 45	4,935 2,503,776 Rs. 509,866 10,242	32 79,658 Rs. 23,900 757	10,923 8,002,651 Rs. 839,961 11,450	4	11,446	47	203	15	7.2
27 Tirumalai-Tirupathi.													
28 Vellore ..	(a) 41 (b) 151,939 (c) Rs. 16,339 (d) 5	174 102,624 Rs. 25,767 66	21 60,967 Rs. 13,597 8	417 332,903 Rs. 85,581 116	1,458 1,231,093 Rs. 292,109 4,680	837 5,55,513 Rs. 31,565 9	4,458 3,497,189 Rs. 496,739 5,004	2	5,002	81	402	23	120
29 Vankhapatnam ..	(a) 185 (b) 551,593 (c) Rs. 46,103 (d) 5	322 641,467 Rs. 50,472 60	.. .. .. ..	.. .. .. ..	2,106 1,679,092 Rs. 362,362 2,778	.. .. .. ..	3,355 3,419,523 Rs. 521,037 5,925	3	2,922	..	..	..	..
30 Pudukkottai State ..	(a) .. (b) .. (c) .. (d) ..	1.3 1,174 Rs. 272 5	9 22,418 Rs. 2,753 10	74 52,732 Rs. 5,146 20	185 55,844 Rs. 12,807 380	3,543 3,069,797 Rs. 124,921 2	5,489 5,741,782 Rs. 230,967 412	4	433	20	98	3	34
31 Pudukkottai ..	(a) 5 (b) 9,620 (c) Rs. 1,504 (d) 1	59 58,726 Rs. 9,620 44	.. .. .. ..	8 4,579 Rs. 94,028 2	819 525,206 Rs. 2,158 Temporary disconnected.	1,613 2,732 Rs. 160,450 Temporary disconnected.	.. 1,231,900 Rs. 2,309 ..	2	2,307	..	..	..	..
32 Ramachandrapuram.	(a) .. (b) .. (c) .. (d) ..	.. 1,399 Rs. 382 4	2 1,399 Rs. 382 4	13 31,774 Rs. 4,360 6	66 25,791 Rs. 2,847 20	755 167,982 Rs. 46,916 1,175	37 9,998 Rs. 2,000 68	..	..	1,295	20	37	5
33 Ponnammavathy ..	(a) .. (b) .. (c) .. (d) ..	.. 216 Rs. 56 6	1 216 Rs. 56 6	18 57,387 Rs. 9,529 7	98 37,995 Rs. 3,722 24	1,000 214,229 Rs. 55,441 1,420	1,229 498,792 Rs. 23,756 142	..	2	1,625	24	129	5
34 Kanara Kasargod.	(a) .. (b) .. (c) .. (d) ..	.. 1,244 Rs. 703 4	6 1,244 Rs. 703 4	5 10,120 Rs. 2,227 1	.. .. .. ..	140 52,716 Rs. 27,802 266	2 2,773 Rs. 1,533 29	..	..	307	..	..	..

NOTE—(a) Connected load in K. W.
(b) Consumption.
(c) Revenue in rupees.
(d) Number of consumers.
All the figures are as furnished by the concerned licensees.

Serial number and name of licensee.	No. of rural industries and total H.P.				Expenditure on rural electrification.						Length of lines in miles.		No. of distribution transformers.		Population of area of supply.		
	As on 31st March 1953.		Connected during the year 1952-53.		1951-52		1950-51		1949-50		1948-49		High- tension.	Low- tension.		Erected during the year at the end 1952-53. of 1952-53.	Total number at the end 1952-53.
	No.	Horse power.	No.	Horse power.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.					
1 Anapalle ..	..	..	..	..	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)		
2 Ambur-Vandambadi.	111	1,464	4	39	59,107	34,199	58,130	51,164	76,254	37,386	21	69	2	19	40,000 (nearly)	1,75,000	
3 Bobbili ..	..	..	..	..	..	..	..	..	..	..	1	4	..	3	24,670		
4 Kothikode ..	..	..	..	..	Correct particulars not available. The licensee has been addressed again in this matter.												
5 Chittoor ..	74	781	2	8	21,650 (approximate)	5,300	4,000	10,590	21,838	14,457	13	24	2	14	50,000		
6 Chingleput ..	29	491	..	..	29,000 (approximate)	39,849	26,204	23,306	24,520	34,285	9	35	1	16	36,000 (approximate)		
7 Cannanore-Tellicherry	16	244	..	..	13,800	47,840	20,000	19,360	3,800	..	27	59	..	29	150,000		
8 Devakottai ..	3	50	..	..	580	364	..	..	..	..	4	29	..	6	30,000		
9 East Tanjore ..	636	8,468	30	264	282,098	362,331	446,033	361,479	176,352	157,371	333	356	4	195	1,611,162		
10 East Ramnathapuram	123	2,022	14	234	233,019 (approximate)	336,817	110,993	117,469	91,518	37,558	182	93	6	53	207,243		
11 East Coast ..	..	..	..	..	..	..	..	..	..	..	2	3	..	1	11,379		
12 Ellore ..	..	..	..	..	..	..	..	..	..	..	1	34	1	8	75,000		
13 Guntur ..	1	8	..	..	11,000	..	..	..	..	..	45	85	5	35	3,00,800		
14 Gadivada ..	..	..	..	..	Particulars not yet received.												
15 Kanadukathan ..	..	..	..	..	137,977	184,725	144,760	182,614	116,740	..	..	..	..	19	53,086		
16 Kumbakonam ..	165	2,067	5	87	231,625	221,243	113,347	104,953	1,03,725	..	110	168	8	75	300,000		
17 Karaikudi ..	6	73	..	..	..	..	..	..	..	..	19	37	..	16	60,000 about		
18 Mangalore ..	..	..	..	..	..	..	..	..	..	..	12	46	..	15	117,095		
19 Nagapattinam ..	52	755	4	(-)	57,294	44,123	63,326	30,633	57,643	19,731	37	95	3	23	100,000		
20 Nattarasankottai ..	..	..	..	..	..	..	..	..	..	..	5	18	..	3	19,981		
21 Palghat ..	..	..	..	..	..	..	..	..	..	..	5	32	..	9	70,000		
22 Rajahmundry ..	6	53	..	..	2,000 (about)	..	..	..	..	..	8	37	1	8	125,900		
23 Salem-Erode ..	83	1,424	4	8	..	..	Not available.	..	..	..	32	158	..	43	311,654		
24 South Arcot ..	..	..	..	..	Correct particulars not yet available. The licensee has been addressed again in this matter.												
25 Tiruchirappalli- Srirangam ..	705	7,749	66	285	672,415 (approximate).	890,067	663,191	638,927	310,271	297,977	353	352	14	205	17,96,703 (including Pudukottai).		
26 Tirunelveli-Tutdoorin	12	92	..	..	59,366	..	..	..	..	..	56	89	3	37	2,60,000 (approximate)		
27 Tirumalai-Tirupathi	..	..	..	..	Particulars not yet received.												
28 Vellore ..	33	661	1	4	31,281	69,356	16,000	20,530	..	..	13	79	..	11	1,36,663		
29 Visakhapatnam ..	..	..	..	..	..	..	..	..	..	..	19	29	..	23	..		
30 Pudukottai State ..	23	384	3	79	73,953 (approximate).	103,604	147,738	34,201	95,941	189,952	66	16	..	9	(Included in Tiruchirappalli-Srirangam)		
31 Pudukottai ..	..	..	..	..	..	..	..	..	..	..	7	40	..	9	45,000 (about)		
32 Ramachandrapuram	..	..	..	..	5,000	22,500	7,645	5,000	4,555	4,000	24	30	..	14	36,000 (approximate)		
33 Ponnatharavathi ..	27	363	1	10	17,000	12,000	14,000	3,506	10,000	9,000	42	42	1	24	34,150 (approximate)		
34 Kanara Ceramics, Kasargod.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25,000 (approximate)		

APPENDIX F-4.

Statistical data for the administration report for the year ending 31st March 1953 (Local authorities).

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1952-53.

end of 1952-53.

Industrial.

Serial number and name of licensee.	Number of units generated.	Number of units purchased.	Number of units sold.	Maximum demand in K.W.	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 Bodinayakanur ..	..	4,80,757	3,79,853	1,635	(a) 38 (b) 77,911 (c) Rs. 10,852 (d) 10	..	..	..	..	..	..	141 75,655 Rs. 5,179 12
2 Coimbatore ..	..	78,95,489	67,75,929	2,800	(a) 356 (b) 7,29,510 (c) Rs. 64,049 (d) 70	78 93,744 Rs. 5,119 12	..	..	..	..	..	2,412 15,34,339 Rs. 74,179 329
3 Karur ..	..	11,36,463	9,79,474	385	(a) 60 (b) 2,04,383 (c) Rs. 19,444 (d) 21	..	..	..	..	..	..	883 2,99,899 Rs. 22,899 43
4 Madurai ..	..	1,29,02,989	1,08,07,423	3,600	..	..	..	..	..	..	..	..
5 Masulipatnam ..	..	11,46,485	9,88,640	356	(a) 38 (b) 2,29,983 (c) Rs. 10,214 (d) 14	..	..	..	..	..	..	490 2,10,488 Rs. 22,950 72
6 Pollachi ..	..	19,80,276	15,99,208	496	(a) 69 (b) 1,17,722 (c) Rs. 18,195 (d) 26	..	..	..	..	..	..	1,253 9,09,138 Rs. 62,683 86
7 Tanjore ..	..	30,50,531	26,38,912	880	(a) 273 (b) 6,99,502 (c) Rs. 57,212 (d) 34	..	..	..	..	..	..	1,293 7,70,132 Rs. 47,818 119
8 Tirupattur (N.A.) ..	..	6,44,660	5,56,562	190	(a) 34 (b) 65,639 (c) Rs. 8,375 (d) 15	7 60 1	..	..	..	..	..	323 2,27,677 Rs. 13,590 40
9 Vijayavada ..	..	..	..	..	..	..	..	..	..	..	..	..

Particulars not received.

Particulars not received.

Particulars not received.

ANNEXURE VI. HIGH-TENSION AND LOW-TENSION													
Consumers at the end of 1952-53—cont.													
Railways.	Govern- ment depart- ments.	Panchayat boards.	Agricul- tural.	Domestic lighting and power.	Miscella- neous.	Total connected load in K.W.	As on 31st March 1953.		Number of agricultural pump sets and total horse-power.		Connected during the year 1952-53.	Horse- power.	
							High tension.	Low tension.	Number.	Horse- power.			
1 Bodinayakanur	(a) .. (b) .. (c) .. (d) ..	.. 196 Rs. 58 2	 105 57,167 Rs. 3,541 23	205 98,780 Rs. 26,477 555	71 69,684 Rs. 17,043 259	590 3,79,353 Rs. 63,150 861	..	861	..	..	..	..	
2 Coimbatore ..	(a) .. (b) .. (c) .. (d) ..	53 2,01,196 Rs. 9,219 2	259 2,59,896 Rs. 37,955 91	593 5,97,255 Rs. 4,83,988 120	5,680 25,30,518 Rs. 4,83,988 9,362	36 10,29,476 Rs. 1,75,865 503	9,467 67,75,929 Rs. 8,34,501 10,489	1	10,483	120	795	..	
3 Karur ..	(a) .. (b) .. (c) .. (d) ..	15 30,137 Rs. 2,982 2	10 8,109 Rs. 2,690 12	9,943 Rs. 520 3	1,085 4,00,683 Rs. 93,080 1,933	47 26,860 Rs. 1,980 12	1,561 9,79,474 Rs. 1,43,445 2,026	..	2,026	3	15	..	
4 Madurai ..	(a) .. (b) .. (c) .. (d) ..	.. 33 11,301 Rs. 3,882	.. 33 25,223 Rs. 6,555	.. .. .. .. .. ..	.. 631 4,27,861 Rs. 1,43,818 1,944	51 88,814 Rs. 8,813 10	1,330 9,88,640 Rs. 1,95,230 1,474	..	1,474	..	..	..	
5 Masulipatnam ..	(a) .. (b) .. (c) .. (d) ..	.. 33 11,301 Rs. 3,882	.. 33 25,223 Rs. 6,555	.. .. .. .. .. ..	.. 631 4,27,861 Rs. 1,43,818 1,944	51 88,814 Rs. 8,813 10	1,330 9,88,640 Rs. 1,95,230 1,474	..	1,474	..	..	..	
6 Pollachi ..	(a) .. (b) .. (c) .. (d) ..	19 37,187 Rs. 4,092 3	12 13,336 Rs. 2,616 13	160 52,430 Rs. 3,503 41	710 4,69,415 Rs. 1,26,086 1,724	.. .. .. .. .. ..	2,223 15,99,208 Rs. 2,17,105 1,893	..	1,893	41	207	..	
7 Tanjore ..	(a) .. (b) .. (c) .. (d) ..	.. 76 1,76,692 Rs. 9,972	.. 76 1,77,095 Rs. 15,044	34,011 Rs. 2,294 10	853 6,65,147 Rs. 2,31,091 3,456	82 1,16,396 Rs. 17,174 276	2,661 26,38,912 Rs. 3,80,595 3,920	2	3,918	..	..	..	
8 Tirupattur (N.A.)..	(a) .. (b) .. (c) .. (d) ..	.. 7 9,118 Rs. 1,140	.. 7 7,022 Rs. 1,171	18,548 Rs. 788 8	1,98,785 Rs. 46,639 1,106	41,773 Rs. 6,104 196	5,56,562 Rs. 77,917 1,376	..	1,376	..	..	..	
9 Villavada ..	(a) .. (b) .. (c) .. (d) ..	.. 9	.. 9 .. .. .. ..	.. .. .. .. .. ..	.. .. .. .. .. ..	.. .. .. .. .. ..	.. .. .. .. .. ..	..	..	..	..	..	

NOTE.—(a) Connected load in K.W.

(b) Consumption.

(c) Revenue in rupees.

(d) Number of consumers.

All the above figures are as furnished by the concerned licensees.

APPENDIX F-4—cont.

Statistical data for the administration report for the year ending 31st March 1953 (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.
						1952-53.	1951-52.	1950-51.	1949-50.	1948-49.	
As on 31st March 1953.	Connected during the year 1952-53.	High-tension.	Low-tension.	Erected during the year 1952-53.	Total number at the end of 1952-53.	Rs.	Rs.	Rs.	Rs.	Rs.	(41)
Number.	Number.	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)
1 Bodinayakanur ..	..	..	..	..	..	..	..	..	..	..	..
2 Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..
3 Karur ..	..	..	..	..	..	..	..	..	..	..	..
4 Madurai ..	..	..	..	..	..	..	..	..	..	..	..
5 Masulipatnam ..	..	..	..	..	..	..	..	..	..	..	..
6 Pollachi ..	..	..	..	..	..	..	..	..	..	..	..
7 Tanjore ..	..	..	..	..	..	..	..	..	..	..	..
8 Tirupattur (N.A.) ..	..	..	..	..	..	..	..	..	..	..	..
9 Vijayavada ..	..	..	..	..	..	..	..	..	..	..	..

NOTE.—All the above figures are as furnished by the concerned licensees.

APPENDIX F-5.

Classification of units sold by electric licensees (Companies).

Serial number and name of licensee.	(1)	Industrial.		Agricultural.		Domestic.		Commercial.		Public lighting.		Traction.		Bulk supplies.		Miscellaneous.		Total.	
		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1 Anakapalle ..	..	154,453	10,094	221,680	166,453	84,041	..	..	..	..	..	..	..	..	..	..	..	..	..
2 Ambur-Vaniyambadi ..	..	506,807	1,471,851	581,818	67,059	128,707	..	..	..	..	..	..	..	..	..	..	..	..	..
3 Bobbili ..	..	256,788	4,119	27,040	87,130	10,209	..	..	..	..	..	..	..	..	..	..	..	..	..
4 Kozhikode ..	..	413,212	151,319	380,883	26,127	68,459	..	..	..	..	..	..	..	..	..	..	..	..	..
5 Chittoor ..	..	120,460	874,560	143,150	226,029	47,380	..	..	..	..	..	..	..	..	..	..	..	..	..
6 Chingleput ..	..	3,845,868	715	924,036	42,508	121,987	..	..	..	..	..	..	..	..	..	..	..	..	..
7 Cannanore-Tellicherry ..	..	125,976	13,182	233,678	81,519	136,569	..	..	..	..	..	..	..	..	..	..	..	..	..
8 Devakottah ..	..	3,209,043	106,872	2,579,780	317,135	621,034	..	..	..	..	..	..	..	..	..	..	..	..	..
9 East Tanjore ..	..	245,921	413,798	415,349	327,650	284,078	..	..	..	..	..	..	..	..	..	..	..	..	..
10 East Ramanathapuram ..	..	898,056	..	12,628	6,196	15,606	..	..	..	..	..	..	..	..	..	..	..	..	..
11 East Coast ..	..	643,659	12,592	694,512	53,572	71,465	..	..	..	..	..	..	..	..	..	..	..	..	..
12 Eluru ..	..	3,611,123	286,968	1,045,974	1,003,916	219,142	..	..	..	..	..	..	..	..	..	..	..	..	..
13 Guntur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14 Gudur ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15 Kanadukathan ..	..	176,286	5,923	277,470	133,031	132,730	..	..	..	..	..	..	..	..	..	..	..	..	..
16 Kumbakonam ..	..	1,757,085	75,015	1,886,941	260,836	315,886	..	..	..	..	..	..	..	..	..	..	..	..	..
17 Karikudi ..	..	251,974	4,993	478,931	255,804	180,443	..	..	..	..	..	..	..	..	..	..	..	..	..
18 Mangalore ..	..	1,261,987	4,070	1,462,527	31,710	210,787	..	..	..	..	..	..	..	..	..	..	..	..	..
19 Nagespettam ..	..	654,192	3,789	2,677,752	209,222	145,877	..	..	..	..	..	..	..	..	..	..	..	..	..
20 Nattarasankottai ..	..	134,637	7,928	147,106	14,252	50,553	..	..	..	..	..	..	..	..	..	..	..	..	..
21 Palghat ..	..	439,289	88,943	331,526	399,250	98,874	..	..	..	..	..	..	..	..	..	..	..	..	..
22 Rajahmundry ..	..	352,154	1,416	401,903	594,063	92,337	..	..	..	..	..	..	..	..	..	..	..	..	..
23 Salem-Erode ..	..	9,222,064	440,857	2,934,523	474,022	503,821	..	..	..	..	..	..	..	..	..	..	..	..	..
24 South Arcot ..	..	28,176,124	2,067,075	2,922,610	1,913,870	2,197,730	..	..	..	..	..	..	..	..	..	..	..	..	..
25 Tiruchirappalli-Srinagar ..	..	2,067,218	95,602	1,813,607	777,260	489,622	..	..	..	..	..	..	..	..	..	..	..	..	..
26 Tirunelveli-Tuticorin ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27 Tirunelveli-Tirupati ..	..	861,658	332,908	1,446,052	47,822	258,216	..	..	..	..	..	..	..	..	..	..	..	..	..
28 Vellore ..	..	180,124	..	1,444,527	112,355	254,592	..	..	..	..	..	..	..	..	..	..	..	..	..
29 Visakhapatnam ..	..	2,539,322	52,732	28,458	27,360	22,413	..	..	..	..	..	..	..	..	..	..	..	..	..
30 Pudukkottai State ..	..	233,608	4,579	250,055	423,154	129,396	..	..	..	..	..	..	..	..	..	..	..	..	..
31 Pudukkottai ..	..	102,431	26,701	165,127	4,245	31,744	..	..	..	..	..	..	..	..	..	..	..	..	..
32 Ramachandrapuram ..	..	667,835	37,695	145,909	78,503	74,458	..	..	..	..	..	..	..	..	..	..	..	..	..
33 Ponnambavathi ..	..	19,256	..	54,176	..	10,004	..	..	..	..	..	..	..	..	..	..	..	..	..
34 Kanara Ceramics, Limited, Kasaragod ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

NOTE.—All the particulars are as furnished by the concerned licensees.

APPENDIX F-6.

Classification of units sold by electric licensees (Local authorities).

Serial number and name of licensee.	(1)	Industrial.	Agricultural.	Domestic.	Commercial.	Public lighting.	Traction.	Bulk supplies.	Miscellaneous.	Total.
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1 Rodinayakanur	78,803	57,147	98,770	73,880	69,883	..	..	1,480	8,79,853	
2 Ootimbetore	1,428,083	597,255	2,830,513	1,513,423	658,501	..	..	43,145	6,775,929	
3 Karur	398,969	9,943	199,360	250,984	93,368	..	..	26,860	979,474	
4 Madurai	3,000,690	68,032	3,118,534	2,835,938	1,011,080	..	..	773,264	10,807,428	
5 Manipalpetnam	364,313	..	419,950	41,357	79,806	..	..	83,314	988,640	
6 Pollachi	925,568	52,450	501,274	15,864	104,072	..	..	..	1,599,208	
7 Thanjore	770,133	34,011	721,996	89,100	323,109	496,173	..	204,391	2,683,912	
8 Tirupattur (North Arcot)	221,370	13,548	217,887	18,229	61,656	..	..	23,872	536,582	
9 Vityavada *	..	..	..	44,441	..	..	..	243	..	

* Particulars not received.
NOTE.—All the particulars are as furnished by the concerned licensees.

APPENDIX F-7—STATEMENT SHOWING TOTAL NUMBER OF UNITS
SOLD UNDER VARIOUS CATEGORIES CLASSIFIED AS URBAN,
RURAL AND TOTAL WITH CONNECTED LOAD PARTICULARS.

APPENDIX F-7.

Statement showing total number of units sold under various categories classified as urban, rural and total with connected load particulars.

Total number of units sold with connected load at the end of 1952-53.

Serial number and name of licensee.	(1)	Municipal.		Industrial.				Tea estates.			
		Urban. (2)	Rural. (3)	Textiles.		Cement works.		Mines.		Urban. (10)	Rural. (11)
				Urban. (4)	Rural. (5)	Urban. (6)	Rural. (7)	Urban. (8)	Rural. (9)		
<i>I. Company undertakings.</i>											
1 Anakapalle	(a)	39,198	..	..	..	..	..	..	..	..	..
2 Ambur-Vaaliyambadi ..	(a)	136,077	..	..	..	..	..	..	..	..	..
3 Bobbili	(a)	..	..	..	..	..	..	..	..	..	..
4 Kozhikode	(a)	..	..	..	..	..	..	..	..	..	..
5 Chittoor	(a)	94,804	..	..	..	..	..	..	..	..	..
6 Chingleput	(a)	..	47,390	..	..	..	..	..	..	..	..
7 Cannanore-Tellicherry.	(a)	115,512	24	145,600	162,458	..	..	..	..	..	..
8 Devakottai	(a)	136,569	..	450	803	..	..	..	..	..	..
9 East Tanjore	(a)	241,284	..	..	..	..	..	..	..	..	..
10 East Ramanatha-	(a)	..	..	..	..	..	..	..	..	..	..
puram.	(a)	..	..	..	..	..	..	..	..	..	..
11 East Coast	(a)	..	..	..	..	..	..	..	..	..	..
12 Eluru	(a)	265,788	..	..	..	..	..	..	..	..	..
13 Guntur	(a)	23,123	..	674	..	..	..	..	..	..	..
14 Gudivada	(a)	28,442	..	949,079	..	..	..	..	..	..	..
15 Kanadukathan	(a)	..	..	302	..	..	..	..	..	..	..
16 Kumbakonam	(a)	..	..	..	..	..	..	..	..	..	..
17 Karalkudi	(a)	153,080	..	..	..	..	..	..	..	..	..
18 Mangalore	(a)	185,175	..	139	..	..	..	..	..	..	..
19 Nagapattinam	(a)	227,208	..	2	..	..	..	..	..	..	..
20 Nattarasankottai	(a)	101	..	..	..	..	..	..	..	..	..
21 Palghat	(a)	4,741	..	..	..	..	..	..	..	..	..
	(a)	11	..	..	..	..	..	..	..	..	..
	(a)	..	..	..	..	..	..	..	..	..	..
	(a)	106,827	..	..	..	..	..	..	..	..	..

Correct particulars not available.

Particulars not received.

22 Rajahmundry	(a)	564,116	46	..	..	..	..	..	..
23 Salem-Erode	(a)	357,855	149	3,452,568	913,205	..	..	..	..
24 South Arcot	(a)	135	..	1,396	391	..	..	..	..
25 Tiruchappalli - Srirangam.	(a)	1,986,166	..	..	..	..	..	..	..
26 Tirunelveli-Tuticorin ..	(a)	723,351	..	2,665,886	1,135,700	..	19,963,376	..	..
27 Tirumalai-Tirupathi ..	(a)	257	..	1,998	676	..	6,126	..	..
28 Vellore	(a)	415,166	..	..	..	..	..	..	..
29 Visakhapatnam	(a)	254,192	..	..	..	..	..	..	..
30 Pudukkottai State	(a)	..	..	..	..	..	..	..	..
31 Pudukkottai Electric Supply Corporation.	(a)	209,054	..	221,909	2,470,801	..	..	..	..
32 Ramachandrapuram	(a)	53	..	143	1,062	..	..	..	..
33 Ponnammavathy	(a)	..	..	..	..	..	..	..	..
34 Kanara Ceramics	(a)	..	..	..	..	..	..	..	..

II. Local Authority Electric Supply Undertakings.

1 Bodinayakanur	(a)	77,911	..	..	..	..	..	..	..
2 Coimbatore	(a)	729,510	38	93,744	..	..	..	..	..
3 Karur	(a)	204,333	..	..	..	..	..	..	..
4 Madurai	(a)	..	..	..	..	..	..	..	..
5 Musulipatnam	(a)	229,983	..	..	..	..	..	..	..
6 Pollachi	(a)	117,722	70	..	..	..	..	..	..
7 Tanjore	(a)	699,502	69	..	..	..	..	..	..
8 Tirupattur	(a)	65,689	273	..	..	..	..	..	..
9 Vilayvada	(a)	..	34	..	..	..	..	..	..

(a) Represents number of units sold.

(b) Represents total connected load.

Statement showing total number of units sold under various categories classified as urban, rural and total with connected load particulars—cont.

Total number of units sold with connected load at the end of 1952-53—cont.

Serial number and name of licensee.	Industrial—cont.				Government Departments.					
	Chemicals.		Steel Rolling Mills.		Small Industries.		Railways.		Urban. Rural.	
	Urban. (12)	Rural. (13)	Urban. (14)	Rural. (15)	Urban. (16)	Rural. (17)	Urban. (18)	Rural. (19)	Urban. (20)	Rural. (21)
<i>I. Companies Undertakings—cont.</i>										
1 Anakapalle	(a)	..	..	..	154,271	..	1,101	..	9,262	..
2 Ambur-Vaniyambadi ..	(a)	..	..	..	219	..	10	..	8	..
3 Bobbili	(a)	..	..	..	423,521	33,286	25,464	..	2,144	..
4 Kozhikode	(a)	..	..	..	912	185	13	..	3	..
5 Chittoor	(a)	..	..	..	256,788	..	..	..	4,817	..
6 Chingleput	(a)	..	..	..	474	..	..	..	4	..
7 Cannanore-Tellicherry ..	(a)	..	..	..	Correct particulars not available.					
8 Devakottai	(a)	..	..	..	226,420	11,418	5,533	..	34,479	..
9 East Tanjore	(a)	..	..	..	533	68	2	..	14	..
10 East Ramanathapuram.	(a)	..	..	..	..	130,460	..	62,119	..	94,820
11 East Coast	(a)	..	..	..	..	368	..	21	..	48
12 Karaikal	(a)	..	..	..	460,998	120,000	41,503	..	13,200	..
13 Guntur	(a)	..	..	..	1,310	188	22	..	7	..
14 Gadivada	(a)	..	..	..	108,089	17,937	..	..	900	..
15 Kanyakumari	(a)	..	..	..	239	38	..	..	2	..
16 Kumbakonam	(a)	..	..	..	960,276	2,402,932	169,003	172,882	9,816	5,462
17 Karaikal	(a)	..	..	..	1,929	4,383	50	82	19	..
18 Mangalore	(a)	..	..	..	..	8,38,055	..	197,415	..	38,619
19 Nagapattinam	(a)	..	..	..	..	1,508	..	234	..	61
20 Nellore	(a)	..	..	..	..	..	..	6196	..	..
21 Karaikal	(a)	..	..	..	553,699	..	19,489	6	26,467	..
22 Karaikal	(a)	..	..	..	749	..	5	..	19	..
23 Guntur	(a)	..	..	..	1,447,803	104,416	118,880	..	90,369	..
24 Gadivada	(a)	..	..	..	1,442	163	20	..	84	..
25 Kanyakumari	(a)	..	..	..	Particulars not received.					
26 Kanyakumari	(a)	..	..	..	..	176,296	..	4,052	..	1,081
27 Karaikal	(a)	..	..	..	..	418	..	5	..	..
28 Karaikal	(a)	..	..	..	694,649	372,621	44,754	49,865	14,782	..
29 Karaikal	(a)	..	..	..	100	1,678	17	32	21	..
30 Karaikal	(a)	..	..	..	235,135	16,700	43,663	27,372	105	..
31 Karaikal	(a)	..	..	..	248	73	16	..	90,989	..
32 Karaikal	(a)	..	..	..	1,261,987	..	71,555	..	191	..
33 Karaikal	(a)	..	..	..	2,024	..	38	..	17,874	396
34 Karaikal	(a)	..	..	..	166,661	270,397	50,825	6,866	13	1
35 Karaikal	(a)	..	..	..	340	566	17	4	2,930	..
36 Karaikal	(a)	..	..	..	134,637	..	8,303	..	8	..
37 Karaikal	(a)	..	..	..	134,201	..	10	..	..	..

(a) Represents number of units sold. (b) Represents total connected load.

II. Local Authority Electric Supply Undertakings—cont.

1	Bodinayakanur	78,655	141	201,195	80,197	15	11,301	25,233	18,336	177,095	76	7,022	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..</
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APPENDIX F-7—cont.

Statement showing total number of units sold under various categories classified as urban, rural and total with connected load particulars—cont.

Serial number and name of licensee.	Panchayat Boards.				Agricultural.				Domestic lighting and Power.				Miscellaneous.				Total.	
	Urban. (22)	Rural. (23)	Urban. (24)	Rural. (25)	Urban. (26)	Rural. (27)	Urban. (28)	Rural. (29)	Urban. (30)	Rural. (31)	Urban. (32)	Rural. (33)	Urban. (34)	Rural. (35)	Urban. (36)	Rural. (37)	Urban. (38)	Rural. (39)
Total number of units sold with connected load at the end of 1952-53—cont.																		
I. Company Undertakings—cont.																		
1 Anapalle	(e)	..	10,094	..	344,941	..	29,059	..	..	..	..	..	..	..	587,926	..	..	..
2 Ambur-Vandambadi ..	(e)	..	788,129	683,222	552,361	11,185	..	..	..	..	..	..	..	..	1,955,953	..	..	778,048
3 Bobbili	(e)	..	669	607	109,262	..	40,333	..	..	..	..	..	..	..	2,635	..	..	831
4 Kothukode	(e)	..	42	..	187	..	..	..	..	..	..	..	..	..	426,210	..	..	..
5 Chittoor	(e)	..	107,169	44,150	349,288	1,890	26,127	..	..	..	..	..	..	..	993,932	..	..	57,423
6 Chingleput	(e)	..	262	110	..	212,240	..	..	..	..	..	..	..	..	2,211	..	..	1,391,161
7 Cannanore-Tellicherry.	(e)	..	..	674,560	..	415	..	..	..	..	..	..	..	..	..	..	..	1,457
8 Devakottai	(e)	..	..	715	760,534	153,959	..	..	..	..	..	..	..	..	4,315,397	..	..	619,717
9 East Tanjore	(e)	..	11,449	1,533	278,729	18,894	..	..	..	..	..	..	..	..	3,180	..	..	1,596
10 East Ramanatha puram.	(e)	..	43,119	153,753	1,178,940	98	4,859	..	..	..	..	..	..	..	5,40,513	..	..	50,961
11 East Coast	(e)	..	212	480	1,365	1,303,246	..	..	..	..	..	..	..	..	2,687,237	..	..	5,883,616
12 Eluru	(e)	..	..	416	..	712,394	..	..	..	..	..	..	..	..	4,114	..	..	8,338
13 Guntur	(e)	..	..	..	..	2,126	..	..	..	..	..	..	..	..	6,415,473	..	..	11,123
14 Guduvada	(e)	..	..	..	..	12,623	..	..	..	..	..	..	..	..	11,123	..	..	41,909
15 Kanadukathan	(e)	..	12,592	..	587,161	..	..	..	..	..	..	..	..	..	1,465,800	..	..	40
16 Kumbakonam	(e)	..	50	..	1,321,763	116,656	..	..	..	..	..	..	..	..	1,665	..	..	599,055
17 Karakudi	(e)	..	6,537	250,431	1,647	213	..	..	..	..	..	..	..	..	5,580,606	..	..	1,034
18 Mangalore	(e)	..	73	574	..	..	..	..	..	..	..	..	..	..	4,453	..	..	..
19 Nagapattinam	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1,299,647
20 Nattaramkottai	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,012
21 Palghat	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,060,828

22 Rajahmundry	(e)	..	3,868	1,212	204	596,624	20,864	..	..	..	..	..	..	..	1,815,153	..	..	87,223
23 Salem-Erude	(e)	..	67,245	240,395	200,459	2,239,846	945,283	..	..	..	..	..	..	..	1,275	..	..	138
24 South Arcot	(e)	..	..	557	271	3,720	1,679	..	..	..	..	..	..	..	9,115,319	..	..	4,489,068
25 Tiruchirappalli - Sri- gani	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	8,968	..	..	193.2
26 Tirunelveli-Tuticorin ..	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27 Tirumalai-Tirupathi ..	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28 Vellore	(e)	..	60,967	48,225	2,057,075	4,408,603	244,670	..	..	..	..	..	..	..	9,630,638	..	..	27,825,283
29 Visakhapatnam	(e)	..	..	101	316	5,345	2,875	..	..	..	..	..	..	..	8,207	..	..	17,141
30 Pudukkottai State	(e)	..	..	..	..	2,491,423	12,348	..	..	..	..	..	..	..	7,081,011	..	..	71,640
31 Pudukkottai Electric Supply Corporation ..	(e)	..	..	..	..	4,938	47	..	..	..	..	..	..	..	10,780	..	..	143
32 Rameswaram	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33 Ponnammavathi	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	5,741,782	..	..	5,468
34 Kanara Ceramics	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	1,261,900	..	..	..
II. Local Authority Electric Supply Undertakings—cont.	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	1,613	..	..	..
1 Bodinayakanur	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2 Coimbatore	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3 Karur	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4 Madurai	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5 Masulipatnam	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6 Pollachi	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7 Tanjore	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8 Tirupattur	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9 Vijayavada	(e)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

(e) Represents number of units sold.

(b) Represents total connected load.

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.	V. Other Industries—cont.
1 The Associated Cement Works, Madukkarai, Coimbatore.	62 Ramakrishna Industries, Peelamedu, Coimbatore.
II. Textiles.	63 Amer Hind Manufacturers, Limited, Podanur Coimbatore.
2 Coimbatore Spinning and Weaving Company, Limited, Coimbatore.	64 Needle Industries (India), Limited, Hothi (Nilgiris).
3 Vasantha Mills, Limited, Singanailur, Coimbatore.	65 New Era Manufacturing Company, Palghat.
4 Cambodia Mills, Limited, Coimbatore.	66 Kumar Industries, Parli, Palghat.
5 Rajalakshmi Mills, Limited, Uppilipalayam, Singanailur.	67 Venkatesa Mills, Bleaching Factory, Madathukulam.*
6 Somasundara Mills, Limited, Coimbatore.	VI. Municipalities.
7 Dhanalakshmi Mills, Limited, Tiruppur.	68 Coimbatore Municipality.
8 Kaleeswarar Mills, Limited, Coimbatore.	69 Pollachi Municipality.
9 Ranga Vilas Mills, Limited, Peelamedu, Coimbatore.	70 Bodinayakanur Municipality.
10 Pankaja Mills, Limited, Coimbatore.	VII. Licensees.
11 Lakshmi Mills, Limited, Coimbatore.	71 West Coast Electric Supply Corporation, Limited Kozhikode.
12 Sri Ramalinga Choudambigai Mills, Limited, Tiruppur.	72 West Coast Electric Supply Corporation, Limited Cannanore (Tellicherry).
13 Coimbatore Cotton Mills, Limited, Singanailur, Coimbatore.	73 Palghat Electric Supply Corporation, Limited Palghat.
14 Sarada Mills, Limited, Podanur, Coimbatore.	VIII. Other Governments.
15 Lotus Mills, Limited, Podanur, Coimbatore.	74 Cochin Government—Supply near Chittoor within Madras State (for Chittoor Electrification).
16 Palani Andavar Mills, Limited, Udumalpet.	75 Cochin Government—Supply near Shikalmudi in Anamalais (for construction purposes for Pongal kuthu Hydro-Electric Project).
17 Janardhana Mills, Limited, Singanailur, Coimbatore.	IX. Government Departments.
18 Sri Ramakrishna Ranganathan Mills, Limited, Perianaickenpalayam, Coimbatore.	76 Cordite Factory, Aravankadu.
19 Venkatesa Mills, Limited, Udumalpet.	77 Central Jail, Coimbatore.
20 Murugan Mills, Limited, Coimbatore.	78 Agricultural College, Coimbatore.
21 Saroja Mills, Limited, Singanailur, Coimbatore.	79 Forest College, Coimbatore.
22 Pioneer Mills, Limited, Coimbatore.	80 Government Sugarcane Breeding Station, Coimbatore.
23 Radhakrishna Mills, Limited, Peelamedu, Coimbatore.	81 Salur Aerodrome.
24 Gnanambikai Mills, Limited, Vellakinar, Coimbatore.	82 Moyal and Masinagudi (for construction work point of supply, Superintending Engineer, Moyal).
25 Kamala Mills, Limited, Uppilipalayam, Singanailur.	83 Pykara Dam III Stage extension Superintending Engineer, Moyal.
26 Vijayalakshmi Mills, Limited, Coimbatore.	84 Lower Bhavani Project.
27 Buckingham and Carnatic Mills, Limited, Tiruppur.	85 Government College of Technology, Coimbatore.
28 Tirumurthi Mills, Limited, Udumalpet.	86 Malampuzha Project.
29 Balasubramania Mills, Limited, Singanailur, Coimbatore.	87 II Point of supply at Siagara for air compress (Superintending Engineer, Moyal).*
30 Soundararaja Mills, Limited, Dindigul.	X. Tea Estates, Anamalais.
31 Kothari Textiles, Limited, Singanailur, Coimbatore.	88 Vellamalai Estate.
32 Asher Textiles, Limited, Tiruppur.	89 Pachamalai Estate.
33 Kasthuri Mills, Limited, Coimbatore.	90 Akkamalai Estate.
34 Kumaran Mills, Limited, Coimbatore.	91 Kaliyar Estate.
35 Jayalakshmi Mills, Limited, Singanailur, Coimbatore.	92 Monica Estate.
36 Vinodha Ginning Factory, Limited, Dindigul.	93 Iyerpadi Estate.
37 Rathna Cotton Ginning Press Factory, Limited, Dindigul.	94 Murugally Estate.
38 Karthikeya Mills, Limited, Uppilipalayam, Singanailur.	95 Uralikal Estate.
39 Premier Mills, Limited, Udumalpet.	96 Anamalai Ropeway Company.
40 Kadri Mills, Limited, Odderpalayam, Singanailur.	97 Injilparai Estate.
41 Jagannatha Ginning Factory, Coimbatore.	98 Stanmore Estate.
42 Kannappan Mills, Limited, Coimbatore.	99 Srikunda Estate.
43 Bhagyalakshmi Mills, Limited, Pollachi.	100 High Forest Estate.
44 Devi Weavings, Limited, Odderpalayam, Coimbatore.	101 Karamalai Estate.
45 Vijayakumar Mills, Limited, Chinnakalayamuthur, Palni.	102 Kadalapalai Estate.
46 Ramakrishna Mills, Limited, Gnanapathy, Coimbatore.	103 Sellalipalai Estate.
47 Jothi Mills, Perianaickenpalayam.*	104 Mount Stuart Estate.
III. Oils.	105 Mallikpari Estate.
48 The Bharat Mills, Limited, Pollachi.	106 Thaimudi Estate.
49 G. Ramaswami & Co., Coimbatore.	107 Sholayar Estate.
50 The Coimbatore Oil Mills, Limited, Pollachi.	108 Nuduvur Estate.
51 The Radhakrishna Oil Mills, Limited, Pollachi.	109 Waverly Estate.
52 K. M. M. Khader Mohideen Oil Mills, Dindigul.	XI. Tea Estates, Nilgiris.
53 Jaya Oil Mills and Products, Limited, Pollachi.	110 Bengorm Estate.
IV. Water Works.	111 Devanahola Estate.
54 Ambarampalayam Water Works, Pollachi.	112 Glendale Estate.
V. Other Industries.	113 Parkside Estate.
55 The General Manufacturing Corporation, Limited, Coimbatore.	114 Nonsuch and Ibox Estate.
56 The Brook Bond (India), Limited, Coimbatore.	115 Prospect Estate.
57 Argus Engineering Company, Limited, Peelamedu, Coimbatore.	116 Terrace Estate.
58 Textools Company, Limited, Coimbatore.	117 Kilkotagiri Estate.
59 Asher Industries, Limited, Tiruppur.	118 Thottapallam Estate.
60 National Manure Works, Limited, Udumalpet.	119 Rousdenmalai Estate.
61 Praga Industries, Coimbatore.	

* Supply effected during 1952-53.

APPENDIX G-1—cont.

*List of H.T. consumers supplied directly by the Electricity department—
Pykara System—cont.*

Serial number, name of the consumer and name of the place.	Serial number, name of the consumer and name of the place.
XI. Tea Estates, Nilgiris—cont.	XI. Tea Estates, Nilgiris—cont.
120 Kilmafort Estate.	131 Craigmere Estate.
121 Dunsandle Estate.	132 Kotada Estate.
122 Thlashola Estate.	133 Rockwood Estate.
123 Sussex Group Estates.	134 Woodbriar Estate.
124 Sutton Estate.	135 Chamraj Estate.
125 Terramia Estate.	136 Sholur Estate.
126 Farm Tea Estate.	137 New Hope Estate.*
127 Malloor Estate.	138 Seaforth Estate.*
128 New Kateri Estate.	139 Glenvane Estate.*
129 Mayfield Estate.	140 Kodanad Estate.*
130 Devanahola Estate.	

APPENDIX G-2.

*List of H.T. consumers supplied directly by the Electricity department—
Mettur Electricity System.*

I. Cement.	IX. Licensees—cont.
NIL.	27 The Chittoor Electric Corporation, Limited, Chittoor.
II. Textiles.	28 The Carnatic Electric Corporation, Limited, Ambur.
1 The Mettur Industries, Limited, Mettur.	29 The Salem-Erode Electricity Distribution Company, Limited, Salem.
2 The Thirumagal Mills, Limited, Gudiyatham.	30 The Salem-Erode Electricity Distribution Company, Limited, Erode.
3 The Rajeswari Mills, Limited, Gudiyatham.	31 The Salem-Erode Electricity Distribution Company, Limited, Sankari.
4 The Karur Mills, Limited, Karur.	32 The Salem-Erode Electricity Distribution Company, Limited, Palilpalayam.
III. Mines.	33 The Salem-Erode Electricity Distribution Company, Limited, Erode II point.
5 The Officer-in-charge, Lignite Mines, Neyveli.	34 The South Madras Electricity Corporation, Limited, Vallam.
6 The Govardhana Gold Fields, Limited, Gudiyatham.	35 The South Madras Electricity Corporation, Limited, Tiruchirappalli.
IV. Oils.	36 The South Madras Electricity Corporation, Limited, Daimlapuram.
7 The Dhanalakshmi Oil Mills, Limited, Bhavani.	37 The South Madras Electricity Corporation, Limited, Tiruvavur.
8 The Tirukkollur Oil Mills, Limited, Tirukkollur.	38 The South Madras Electricity Corporation, Limited, Mayanoor.
9 The P.K. Arthanari Chetty and Company, Rastapuram.	39 The South Madras Electricity Corporation, Limited, Mayuram.
V. Water Works.	40 The Nagapatnam Electricity Corporation, Limited, Nagapatnam.
10 The Erode Municipality, Erode.	41 The Kumbakonam Electricity Corporation, Limited, Kumbakonam.
11 & 12 The Salem Municipality, Salem. (2 points.)	42 The Kumbakonam Electricity Corporation, Limited, Tanjore II point.
VI. Other Industries.	43 The French India Government, Villupuram.
13 & 14 The Mettur Chemical and Industrial Corporation, Limited, Mettur. (2 points.)	44 The South Arcot Electricity Distribution Company, Limited, Villupuram.
15 The Indian Metal and Metallurgical Corporation, Limited, Mettur.	45 The South Arcot Electricity Distribution Company, Limited, P. 3/3 Villupuram-Pondicherry line.
16 The Deccan Sugar and Abkari Company, Pugalur.	46 The South Arcot Electricity Distribution Company, Limited, Chidambaram.
17 The Solar Industries, Limited, Erode.	47 The Thirumalai-Thirupathi Devasthanams, Thirupathi.
18 The Erode Bleaching Factory, Erode.	X. Municipalities.
19 The Hindusthan Fertilisers and Company, Kuppam.	48 The Karur Municipality, Karur.
VII. Government Department.	49 The Tanjore Municipality, Tanjore.
20 The Executive Engineer, P.W.D., Salem Division, Mettur (Tiruchirappalli and Erode).	50 The Thirupathur Municipality, Thirupathur.
VIII. Railways.	
21 & 22 The Southern Railway, Tiruchirappalli.	
23 & 24 The Southern Railway, Madras (Arkonam and Jalarpet).	
IX. Licensees.	
25 The Vellore Electric Corporation, Limited, Vellore.	
26 The Vellore Electric Corporation, Limited, Ranipet.	

APPENDIX G-3.

*List of H.T. consumers supplied directly by the Electricity department—
Papanasam System.*

I. Cement.	II. Textiles—cont.
1 India Cement Company, Thalaisyuthu, Tirunelveli district.	6 Kothandaram Mills, Madurai.
II. Textiles.	7 Mahalakshmi Mills, Pasmalal, Madurai.
2 Madura Mills, Madurai.	8 Madura Mills, Virudhunagar.
3 Pandian Mills, Madurai.	9 Virudhunagar Textiles, Virudhunagar.
4 Meenakshi Mills, Madurai.	10 East India Corporation, Sattur.
5 Bajah Mills, Madurai.	11 Loyal Textile Mills, Kovilpatti.
	12 Laxmi Mills, Kovilpatti.

* Supply effected during 1952-53.

APPENDIX G-3—cont.

List of H.T. consumers supplied directly by the Electricity department—
Papanasam System—cont.

Serial number, name of the consumer and name of the place.	Serial number, name of the consumer and name of the place.
II. Textiles—cont.	
13 Madura Mills, Kadambur.	V. Chemicals.
14 Karthikayan Mills, Veeravanallur.	
15 Harvey Mills, Ambasamudram.	VI. Other Industries (Agricultural farm).
16 Rajapalayam Mills, Limited, Srivilliputtur.	
17 Jayaram Mills, Limited, Srivilliputtur.	28 Industrial Chemical Company, Thalayuthu (Tirunelveli district).
18 Janakiram Mills, Limited, Srivilliputtur.	VII. Municipality.
19 Sri Shanmughar Mills, Limited, Srivilliputtur.	
20 Chandrasekhara Bharathi Weaving Mills, Limited, Srivilliputtur.	31 Madurai Municipality, Madurai.
21 Rama Raj Surgical Cotton Mills, Limited, Srivilliputtur.	VIII. Licenses.
III. Water Works.	
22 Public Water Works, Virudhunagar.	32 South Madras Electric Supply Corporation, Limited, Tiruchirappalli.
IV. Oils.	
23 T. M. M. Mathalai Nadar, Virudhunagar.	(a) Singampunari Supply Company, Kiladi point.
24 T. M. S. Mathalai Nadar, Virudhunagar.	(b) Tirupuvanam.
25 Southern Oil Mills, Virudhunagar.	33 Nattarasankottai Electric Supply Company, Nattarasankottai.
26 M. S. Paramasiva Nadar, Virudhunagar.	34 Tirunelveli-Tuticorin Electric Supply Company, Tuticorin.
27 K. C. A. S. Durairaj Nadar, Sivakasi.	

APPENDIX G-4.

List of H.T. consumers supplied directly by the Electricity department—
Madras System.

1 Addison & Co.	32 Law College Pumping Station, Georgetown, Madras.
2 Addisons Paint Factory and Sembiam Saw Mills, Sembiam.	33 Madras Electric Tramways Company, Limited.
3 Ajax Products, Thiruvottiyur.	34 Madras Institute of Technology.
4 Ashok Motors, Ennore.	35 Madras Port Trust, Madras Harbour.
5 Associated Printers, Mount Road.	36 Madras Race Club, Guindy.
6 A.V.M. Studios, Kodambakkam.	37 "Mail", Mount Road, Madras.
7 Best & Co., Ltd., Washermanpet.	38 Massey, Co., Rayapuram.
8 Buckingham and Carnatic Mills, Perambur.	39 Metal Box Company, Thiruvottiyur.
9 Chingleput Electric Supply Company, Chingleput Licensee Pole 408.	40 Military Pumping Station, Anakaputhur.
10 Chingleput Electric Supply Company, Chingleput Licensee Pole 4.	41 Mysore Vegetable Oil Products, Basin Bridge.
11 Chingleput Electric Supply Company, Chingleput Licensee Pole 341.	42 Narasu Studios, Guindy.
12 Christian College, Tambaram.	43 National Carbon Company, formerly Crompton Engineering Company, Tiruvottiyur.
13 City Ice Factory, General Patters Road.	44 Nazir Hussain Tannery, Sembiam.
14 Corporation of Madras, Cold Stores, Moore Market.	45 Palar Mills (Textiles), Limited, Wallajahabad.
15 Do. Kilpauk Pumping Station.	46 Poondi Irrigation Research Divisions, Tiruvallur.
16 Do. Street Lighting.	47 Printers India Limited, Tiruvottiyur.
17 East Asiatic Company (India), Limited, Tondiarpet.	48 Rallies (India), Limited, Rayapuram.
18 Engineering College, Guindy.	49 Revathi Studios.
19 Gordon Woodroffe Leather Manufacturing Company, Pallavaram.	50 Richardson and Cruddas, Rayapuram.
20 Government Broadcasting Station, Guindy.	51 R.N.A.S., Tambaram (Now I.A.F.).
21 Government Medical Stores, Periamet.	52 St. Joseph's Industrials, Basin Bridge.
22 Government Milk Plant, Teynampet.	53 Simpson & Co., Mount Road.
23 Government Press, Mint Street.	54 Spencer & Co., Mount Road.
24 Hindu (Kasturi & Sons), Mount Road, Madras-2.	55 South India Battery Manufacturing Company, Saidapet.
25 Hindustan Metal Georgetown, Refinery and Rolling Mills, Tondiarpet.	56 South Indian Carbonic Gas Industries, Rayapuram.
26 Hoe & Co., Georgetown, Madras.	57 Southern Railways (Emergency Supply), Beach.
27 Indian Express, Mount Road, Madras.	58 Southern Railways, Main Traction Supply, Egmore.
28 Indian Metal and Metallurgical Corporation, Washermanpet.	59 Southern Railways, Perambur Workshop, Perambur.
29 Indian Oxygen and Acetylene Company, Limited, Tondiarpet.	60 South Indian Royal Ice Factory, Egmore.
30 India Pistons, Limited, Perambur.	61 Standard Motors, Vandalur.
31 Lady Willingdon Nursing Home.	62 Sundaram Motors, Mount Road.
	63 Sri Rama Rolling Mills.
	64 Theosophical Society, Adyar.
	65 T.I. Cycles (India), Limited, Ambattur.
	66 Vauhini Studios, Kodambakkam.
	67 Vummidiar & Co., Mount Road.
	68 Wood Screw Manufacturing Factory, Pullai.
	69 Wireless Station, Fort St. George.

* (H.T. consumers added during the year 1952-53 up to the end of March 1953.)

APPENDIX G-5.

List of H.T. consumers supplied directly by the Electricity department—
Andhra Power System.

Serial number, name of consumer and name of the place.	Serial number, name of consumer and name of the place.
I. Cement.	
1 Andhra Cement Company, Limited, Vijayavada.	15 Kanakamba Paints and Varnishes, Limited, Vijayavada.
2 Krishna Cement Company, Limited, Mangalagiri.	16 Diamond Machinery Works, Ltd., Vijayavada.
II. Mines.	
3 R. B. S. Sriramadurgaprasad, Garbham Mines.	17 National Tobacco Co., Biccavolu.
4 R. B. S. Sriramadurgaprasad, Kodur Mines.	18 Hindustan Ship Yard Company, Visakhapatnam.
III. Oils.	
5 Messrs. P. Bhaskara Rao, Suryaprasada Oil Mills, Vizianagaram.	19 Chittivalasa Jute Mills, Ltd., Chittivalasa.
6 Visakhapatnam Vegetable Oil Products, Bobbili.	20 East Coast Food Products, Ltd., Tadepalli.
IV. Water Works.	
7 Messrs. Visakhapatnam Electric Supply Corporation, Limited, Malkapuram Water Works.	VIII. Municipalities.
21 Vijayavada Municipality (4 points of supply).	
22 Masulipatnam Municipality (2 points of supply).	
IX. Licenses.	
23 Gudivada Electric Supply Corporation, Gudivada.	
24 Ellore Electric Supply Corporation, Eluru (2 points).	
25 Guntur Power and Light, Ltd., Guntur.	
26 Guntur Power and Light, Ltd., Tadepalli.	
27 Rajahmundry Electric Supply Corporation, Limited, Rajahmundry.	
28 Visakhapatnam Electric Supply Corporation, Ltd., Visakhapatnam.	
29 Visakhapatnam Electric Supply Corporation, Limited, Visakhapatnam Aerodrome.	
30 Anakapalle Electric Supply Corporation, Limited, Anakapalli.	
31 Motors and General Stores, Limited, Bobbili.	
X. Others.	
32 Visakhapatnam Port, Visakhapatnam.	
33 Vizianagaram Estate, Vizianagaram.	
34 Agricultural College, Bapatla.	
V. Sugar.	
8 Vizag Sugars, Limited, Anakapalle.	
9 Sree Rama Sugar Mills, Bobbili.	
10 K. C. P., Limited, Vayyuru.	
11 Andhra Sugars, Limited, Tanuku.	
VI. Chemicals.	
12 National Chemical Works, Masulipatnam.	
13 Indian Oxygen and Acetylene Company, Limited, Nakkavandipalem.	
14 Balacheruvu Salt Factory.	

APPENDIX G-6.

List of H.T. consumers supplied directly by the Electricity department—
Rayalaseema Power System.

I. Cement.		III. Mines—cont.	
Nil.		15 Sitaram Bata Sadana Mica Mines, Kalchedu.	
II. Textiles.		16 Lakshmi Vilas Mica Mines, Pakandala, Nellore district.	
1 Messrs. Rayalaseema Mills, Limited, Adoni.		17 Dasali Mica Mines, Pakandala.	
2 Messrs. Alimchand Topandas, Adoni.		IV. Oil.	
3 Messrs. Adoni Ginning Factory, Adoni.		18 Messrs. Yalay Mallesappa Oil Mills, Adoni.	
4 Messrs. Pompalah Setty and Sons, Adoni.		19 Messrs. Narasapalli Oil Mills, Bellary.	
5 Messrs. Khimji Poonja Ginning and Pressing Company, Adoni.		20 Messrs. Krishna Oil Mills, Adoni.	
6 Messrs. Adoni Cotton Mills, Adoni.		21 Messrs. M.G. Brothers Oil Mills, Yemmiganur.	
III. Mines.		22 Messrs. N. Tippanna Oil Mills, Yemmiganur.	
7 Government Ceramic Factory, Gudur.		V. Water Works.	
8 Messrs. Krishna Mining Company, Mica Mines, Gudur.		Nil.	
9 Messrs. Shaw Mines, Gudur.		VI. Others.	
10 Messrs. Micanite Factory, Gudur.		23 India Sugars and Refineries, Ltd., Hospet.	
11 Messrs. Bhavani Sankav Mica Mines, Gudur.		24 Tungabhadra Project, Madras, P.W.D., Tungabhadra Dam Post, Hospet.	
12 Messrs. S.R.A. Mica Mines, Dogapudi.		25 Tungabhadra Project Hyderabad, P.W.D., Munra-bad.	
13 Meenakshi Sundaram Mica Mines, Talupur.		26 Tungabhadra Project, Southern Railway Station, Guntakal.	
14 S.B.A.L.N. Mica Mines, Talupur.			

APPENDIX G-7.

List of textile mills and other H.T. consumers, their connected load and maximum demand during 1952-53 in electric licensees' areas.

Serial number and name of electric licensees.	Textile mills.	Other H.T. consumers.	Connected load.	Maximum demand.
(1)	(2)	(3)	(4)	(5)
1 Kozhikode ..	(1) Malabar Spinning and Weaving Mills, Limited.	....	570 K.W.	438 K.V.A.
		(2) K. C. Saw Mills ..	118 "	90 "
		(3) Water Works ..	113 "	74 "
		(4) Standard Tilo and Clay Works, Limited.	405 "	283 "
2 Cannanore-Tellicherry.	(1) Karom Spinning and Weaving Mills, Ltd., Pappinisseri.	(3) Western India Plywood, Ltd., Bailapatam.	1,687 K.W. (1 + 2 + 8)	804 K.V.A. (1 + 2 + 8)
	(2) Cannanore Spinning and Weaving Mills, Limited, Cannanore.	....		
3 Chittoor Electric Supply Corporation, Ltd., Chittoor.	....	(1) Messrs. The Vegetals, Ltd.	200 K.W.	85 K.W.
		(2) Messrs. Sri B.V. Reddy and Sons.	200 "	No maximum demand L.T. meter installed.
4 Coimbatore ..	....	Coimbatore Railway Station.	50 "	45 K.W.
5 East Ramanathapuram.	....	(1) Messrs. Sri Meenakshi Electric Corporation, Limited, Devakottai.	1,563 "	254 K.V.A.
		(2) Messrs. Sri Meenakshi Sundareswaral Electric Power Corporation, Limited, Karakkudi.	2,103 "	500 "
		(3) Messrs. Kanadukathan Electric Supply Corporation, Limited, Kanadukathan.	3,041 "	500 "
		(4) Southern Railway, Manamadurai Junction.	..	70 K.W.
		(5) Southern Railway, Marine Workshops, Mandapam.	..	16 "
		(6) Chief Research Officer, Marine Fisheries, Mandapam.	..	11 "
6 East Tanjore.	....	(1) South Arcot Electricity Distribution Company, Ltd., Madras.	1,841 K.W.	300 "
		(2) Karakkal Electric Supply Company, Ltd., Tirumala- rajan pattinam.	772 "	267 "
		(3) Karakkal Electric Supply Company, Ltd., Agalan- cannu.	36 "	19 "
		(4) Executive Officer, Pan- chayat Board, Aran- tangi.	8 "	4 "
		(5) District Electrical Engi- neer, Southern Railway, Golden Rock.	43 "	43 "
7 Gudivada Elec- tric Supply Corporation, Limited, Gudivada.	*....	....	....	..
8 Guntur ..	Hemalatha Textile, Limited.	(1) Guntur Vegetable Oil Industries, Ltd.	302 K.W. 49 K.W.	345 K.V.A. 18 "
	....	(2) Motilal Hariprasad and Brothers Oil Mills, Limited.	124 "	68 "
	....	(3) Bajrang Jute Mills, Limi- ted.	507 "	302 K.W.
		(4) National Tobacco Company of India, Ltd.	90 "	85 "

* Particulars not furnished by licensees.

APPENDIX G-7—cont.

List of textile mills and other H.T. consumers, their connected load and maximum demand during 1952-53 in electric licensees' areas—cont.

Serial number and name of electric licensees.	Textile mills.	Other H.T. consumers.	Connected load.	Maximum demand.
(1)	(2)	(3)	(4)	(5)
9 Kanadukathan Electric Supply Corporation, Limited.	....	(1) Superintending Engineer, Papanasam Electricity System.	389 K.W.	160 K.W.
		(2) South Madras Electric Supply Corporation, Ltd.	271 "	115 "
10 Karakkudi.	R.V. Textiles ..	....	1,60 K.W. (L.T. supply.)	Nil.
11 Madurai ..	(1) Kothandaram Mills.	....	85 K.W.	79 K.V.A.
	(2) Balakrishna Mills ..	....	58 "	92 "
	(3) Messrs. Madura Knitting Co.	....	139 "	97 "
	(4) Mohanram Mills ..	....	35 "	..
		(1) M.F.P.M. Hospital ..	111 "	..
		(2) Chintamani Talkies, Madurai.	39 "	..
		(3) Southern Railway, Madurai.	216 "	140 K.V.A.
		(4) K.L.N. Radhakrishna Ayyar.	99 "	..
		(5) Central Cinema ..	76 "	..
		(6) Madura Mills (Kochadai Bungalow residence).	63 "	..
		(7) T.V.S. Workshop ..	119 "	154 K.V.A.
		(8) S. M. Sundaram Chettiar.	50 "	..
		(9) Municipal Water Works.	259 "	152 K.V.A.
		(10) S. B. Rajaratnam Chettiar (Rice Mill and Work- shop).	63 "	..
		(11) Government Erskine Hos- pital.	49 "	..
		(12) Madurai, etc., Devasthanam Temple.	36 "	..
		(13) R. M. S. S. Sundaram Pillai Rice Mills.	48 "	..
12 Nagapattinam Electric Supply Company, Ltd.	....	The Indian Steel Rolling Mills, Nagapattinam.	2,467 "	950 K.W.
13 Ponnamaravathi Electric Supply Corporation, Ltd.	(1) Pudukkottai Textiles, Ltd., Rama- chandrapuram.	....	566 "	185 "
		(1) Sri Brahmaydyambal Electric Supply Company, Limited, Ramachandra- puram.	1,207 "	145 "
14 The Pudukkottai Electric Supply Corporation, Ltd.	(1) Messrs. Kanagavel Mills, Ltd., Puduk- kottai.	....	100 H.P.	80 K.V.A.
	(2) Messrs. Dawood Mills, Ltd.	....	90 "	75 "
15 Pudukkottai State Electric Licence.	(1) Sri Meenakshi Mills, Ltd., Usilampatti.	....	690 K.W.	458 "
	(2) Cauvery Spinning and Weaving Mills, Ltd., Vellanur.	....	372 "	345 "
		(1) Messrs. Pudukkottai Electric Supply Corporation, Ltd., Pudukkottai.	1,611 "	480 "
		(2) Messrs. Ponnamaravathi Electric Supply Corporation, Ltd., Ponn- amaravathi.	2,239 "	550 "

APPENDIX G-7—cont.

List of textile mills and other H.T. consumers, their connected load and maximum demand during 1952-53 in electric licensees' areas—cont.

Serial number and name of electric licensees.	Textile mills.	Other H.T. consumers.	Connected load.	Maximum demand.
(1)	(2)	(3)	(4)	(5)
16 Rajahmundry Electric Supply Corporation, Ltd.	....	Rajahmundry Railway station.	25 K.W.	10 K.W.
17 Salem-Erode Electricity Distribution Company, Ltd.	(1) Rajendra Mills, Ltd., Gandhinagar, Salem. (2) Jawahar Mills, Ltd., Salem. (3) Pulcar Mills, Ltd., Tiruchengode.	 (1) Southern Railway, Salem Junction. (2) The National Starch Industries, Ltd., Salem.	491 " 849 " 391 " 37 " 56 "	480 " 580 " 270 " 48 " 25 "
18 South Arcot Electricity Distribution Co., Ltd.	....	(1) Annamalai University, Chidambaram. (2) Rallie (India), Ltd., Cuddalore O.T. (3) Messrs. East India Distilleries and Sugar Factories, Ltd., Neelikutpam. (4) Messrs. Madras Vannaspathy, Ltd., Villupuram.	317 " 90 " 190 " 578 "	62 " 125 " 192 " 578 "
19 Tanjore ..	....	(1) Public Water Works (2) Railway	104 " 36 "	50 K.V.A. 32 K.W.
20 Tinnevely-Tuticorin Electric Supply Co., Ltd., Tuticorin.	(1) Messrs. Madura Mills Co., Ltd. (2) Messrs. Sankar Mills. (3) Messrs. Ganapathy Mills. (4) Messrs. Tuticorin Spinning Mills.	 (5) Wananad Water Works.	1,584 " 145 " 140 " 129 " 62 "	870 " 126 " 122 " 144 " 49 "
21 Tiruchirappalli-Srirangam electric licensee.	(1) Tiruchirappalli Mills, Ltd., Tiruchirappalli.	....	676 "	340 K.V.A.
		(1) Messrs. Dalmia Cement, Ltd., Dalmiapuram (Cement Factory). (2) Messrs. Dalmia Cement, Ltd. (Pumpsets at Alangudi). (3) Station Director, All-India Radio, Tiruchirappalli. (4) Messrs. the Hindustan Vannaspathy Manufacturing Co., Ltd.	6,086 " 40 " 50 " 492 "	4,240 " 44 K.W. 32 " 277 K.V.A.
22 Tirupattur.	One L.T. Consumer ..	....	10 H.P.	7 K.W.
23 Vellore ..	..	(1) Messrs. Sudarsan Oil Mills, Ltd., Katpadi. (2) The Christian Medical College Hospital, Vellore.	500 K.W. 800 "	85 " 104 "
24 Visagapatnam Electric Supply Corporation, Ltd.	..	(1) B.N.R. cubical. (2) I.E.M.E. Workshops .. (3) Andhra University ..	180 " 27 " 180 "	100 K.V.A. 15 K.W. 100 K.V.

APPENDIX H-1.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1952-53.

PYKARA ELECTRICITY SYSTEM.

COIMBATORE DISTRICT.

I. Avanasht taluk.

1 Agraharapudur.
2 Alampalayam.
3 Alangattupuram.
4 Alagappagoundenpudur.
5 Ananthagiri.
6 Angeripalayam.
7 Andipalayam.
8 Annur.
9 Avanasht.
10 Avanashtipalayam.
11 Avanashtilingampalayam.
12 Belladi.
13 Chikkadasampalayam.
14 Chikkarampalayam.
15 Chockampalayam.
16 Dasampalayam.
17 Ellapalayam.
18 Giddenpalayam.
19 Kallar.
20 Kalingarayampalayam.
21 Kalathiyur.
22 Karavalur.
23 Karamadai.
24 Kadathur.
25 Kanur.
26 Kaniyampundi.
27 Karimpalayam.
28 Kavundampalayam.
29 Karuppanampalayam.
30 Kannarpalayam.
31 Kurumbampalayam.
32 Kannampalayam.
33 Kasigoundenpudur.
34 Kattampatti.
35 Kempanaickenpalayam.
36 Momarapalayam.
37 Krishnagoundanpudur.
38 Krishnapuram.
39 Kuppalpalayam.
40 Maddampalayam.
41 Madathupalayam.
42 Mangalakuripudur.
43 Masagoundenchettipalayam.
44 Mathampalayam.
45 Marudai.
46 Maranagoundenpudur.
47 Mettupalayam.
48 Nariampalli.
49 Nambampalayam.
50 Nallithurai.
51 Odenthorai.
52 Orakkalpalayam.
53 Onnipalayam.
54 Perumanallur.
55 Ponnagoundanpudur.
56 Punalur.
57 Palankarai.
58 Pugalur.
59 Pillappanpalayam.
60 Puthur.
61 Rakklapalayam.
62 Ranganathapuram.
63 Ramanaathapuram.
64 Semmandampalayam.
65 Sembianallur.
66 Samanalkenpalayam.
67 Thelungupalayam.
68 Thirumuruganpundi.
69 Thekkampatti.
70 Themampalayam.
71 Thathampalayam.
72 Thottakalampudur.
73 Virugapalayam.
74 Vanniipalayam.
75 Veerapandi.
76 Velayudampalayam.
77 Alikulam.
78 Bodithampalayam.
79 Chinnaripalayam.
80 Devarayapuram.
81 Kodayampalayam.
82 Kurukampalayam.
83 Mullapadi.
84 Royarpalayam.

COIMBATORE DISTRICT—cont.

I. Avanasht taluk—cont.

85 Samanthankottai.
86 Sundakkampalayam.
87 Sengalipalayam.
88 Thekkalur.
89 Thevarampalayam.
90 Vadakkalipalayam.
91 Valluvapalayam.
92 Velandipalayam.
93 Kargoundenpalayam.*
94 Kariakkampalayam.*
95 Nanupalayam.*
96 Nalichettipalayam.*
97 Uppilipalayam.*
98 Vellegoundenpalayam.*

II. Coimbatore taluk.

99 Agraharasamakulam.
100 Athinayanasapuram.
101 Arumughagoundenpudur.
102 Athumunda Thottam.
103 Athipalayam.
104 Ayyampalayam.
105 Alandurai.
106 Ambilipudur.
107 Bodipalayam.
108 Chettipalayam.
109 Chitraichavadi.
110 Chinnamettupalayam.
111 Chavadiipudur.
112 Devinalkenpalayam.
113 Devarayapuram.
114 Dombilipalayam.
115 Edayapalayam.
116 Echaneri.
117 Ettimadai.
118 Edayarapalayam.
119 Ganapathy.
120 Govindanalkenpalayam.
121 Gudalur.
122 Idigara.
123 Jengamanalkenpalayam.
124 Kalapatti.
125 Kallimadai.
126 Kandagoundansalai.
127 Keeranatham.
128 Kodayampalayam.
129 Krishnarayapuram.
130 Kuniamthur.
131 Kurichi.
132 Kurudampalayam.
133 Kurumbanur.
134 Kumarapalayam.
135 Kuppanur.
136 Kalikanalkenpalayam.
137 Kuppakonampudur.
138 Karumathampatti.
139 Kurumbapalayam.
140 Kalikolapalayam.
141 Karadayampalayam.
142 Kallipalayam.
143 Machapalayam.
144 Madukkarai.
145 Manjalarapalayam.
146 Machampalayam.
147 Malamachampatti.
148 Mettupalayam.
149 Narasimhanalkenpalayampudur.
150 Nanjundapuram.
151 Neelikonampalayam.
152 Naduppalalayam.
153 Nalickenpalayam.
154 Ondiputhur.
155 Onnipalayam.
156 Palathurai.
157 Pappanalkenpalayam.
158 Pannimadai.
159 Perianalkenpalayam.
160 Perur.
161 Perurichettipalayam.
162 Podanur.
163 Pudupalayam.
164 Pudur.

* Villages electrified during the year.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

PYKARA ELECTRICITY SYSTEM—cont.

COIMBATORE DISTRICT—cont.

II. Coimbatore taluk—cont.

165 Peelamedu.
166 Pullakulam.
167 Pachapalayam.
168 Pallapalayam.
169 Pattanam.
170 Periaputhur.
171 Pullangulam.
172 Paramasweranpalayam.
173 Ramanathapuram.
174 Ramachettipalayam.
175 R.N. Puram.
176 Rangappagoundenpudur.
177 Rakkiapalayam.
178 Samakulam.
179 Saravanampatti.
180 Sircarsamakulam.
181 Souripalayam.
182 Sengalipalayam.
183 Sinnavadampatti.
184 Sengalur.
185 Sridhanalickenpalayam.
186 Sengodagoundenpudur.
187 Senniipalayam.
188 Sennichettipalayam.
189 Sukkaravarapalayam.
190 Siripalayam.
191 Thettipalayam.
192 Thondamuthur.
193 Thudiyalur.
194 Thattampudur.
195 Thirumalayampalayam.
196 Thoppampatti.
197 Thenkarai.
198 Thennamanallore.
199 Udayampalayam.
200 Uppilipalayam.
201 Vadamathurai.
202 Vellankurichi.
203 Vellalore.
204 Vellaikinar.
205 Vellamadai.
206 Veerapandi.
207 Venkatasapuram.
208 Veerakeralam.
209 Viyampalayam.
210 Vadavalli.
211 Vedapatti.
212 Vellanaipatti.
213 Verampalayam.
214 Vallampalayam.
215 West Chitralchavadi.
216 Appachigoundenpatti.
217 Balaramanathapuram.
218 Mangalapalayam.
219 Semmedu.
220 Subbanalickenpatti.
221 V.N. Palayam.
222 Arasipalayam.*

III. Dharapuram taluk.

223 Dharapuram.
224 Dhalavalpatnam.
225 Periyakumarapalayam.

IV. Erode taluk.

226 Chennimalai.
227 Chengapalli.
228 Chinnakarapanpalayam.
229 Irugur.
230 Kunnathur.
231 Kavathampalayam.
232 Mugasipidiyur.
233 Perundurai.
234 Reddipalayam.
235 Sengalipalayam.
236 Sundakampalayam.
237 Thiruvankattampalayam.
238 Thalapatti.
239 Uthukuli.
240 Virumandampalayam.
241 Vellankoti.
242 Muthampalayam.

COIMBATORE DISTRICT—cont.

IV. Erode taluk—cont.

243 Kamhillampatty.*
244 Nagappagoundenpalayam.*

V. Gobichettipalayam taluk.

245 Gobichettipalayam.
246 Chittandipalayam.
247 Getticheyyur.
248 Kollapalur.
249 Karattupalayam.
250 Modlachur.
251 Pariyur.
252 Panickanpalayam.
253 Santhapalayam.
254 Siruvai.
255 Satyamangulam.
256 Rangasamudram.
257 Kavathupalayam.

VI. Palladam taluk.

258 Anuppapalayam.
259 Appanalickenpatti.
260 Arasur.
261 Aruganpalayam.
262 Athappagoundenpudur.
263 Audinarayanapuram.
264 Alathupalagari.
265 Anupatty.
266 Agraharapudur.
267 Ammapalayam.
268 Bommalagoundenpatti.
269 Chandrakari.
270 Chinnavadugapalayam.
271 Chinnayagoundenvalasu.
272 Chittambalam.
273 Chittambalampudur.
274 G.N. Palayam.
275 Ganapathipalayam.
276 Irugur.
277 Ichipatti.
278 Kallapalayam.
279 Kallikanalickenpalayam.
280 Kaniyur.
281 Kannappalayam.
282 Karadibavi.
283 Karavalampudur.
284 Kosavampalayam.
285 Kalengai.
286 Kombakadu.
287 Karunamapet.
288 Kadambabadiyur.
289 Kodangipalayam.
290 Kodampadi.
291 Karalipudur.
292 Krihnapudur.
293 Lakshminalickenpalayam.
294 Maranallur.
295 Mallampatti.
296 Mudalipalayam.
297 Mangalam Vanjipalayam.
298 Mallegoundapalayam.
299 Mannarai.
300 Mallai Kottai.
301 Muthunalickenpalayam.
302 Muthugoundenpudur.
303 Neelambur.
304 Nanakkadu.
305 Naranapuram.
306 Nellore.
307 Odderpalayam.
308 Palladam.
309 Pappampatti.
310 Patnam.
311 Peedampalli.
312 Paramasivampalayam.
313 Perumanallur.
314 Paruvai.
315 Pullapalayam.
316 Pullampatti.
317 Pollikalpalayam.
318 Rasipalayam.
319 Ravathur.
320 Rangasamudram.

COIMBATORE DISTRICT—cont.

VI. Palladam taluk—cont.

321 Ramanalickenpalayam.
322 Sengodagoundenpudur.
323 Somanur.
324 Sulur.
325 Samalapuram.
326 Selappampalayam.
327 Sclakarichal.
328 Semmipalayam.
329 Sukkaripalayam.
330 Sennappachettypudur.
331 Thottipalayam.
332 Uthupalayam.
333 Unjipalayam.
334 Vadugapalayam.
335 Velayampalayam.
336 Velampalayam.
337 Ayyampalayam.
338 Ayyarpalayam.
339 Andipalayam.
340 Devarayapalayam.
341 Kallipalayam.
342 Kallampalayam.
343 Kaniyampundi.
344 Kullagoundenpalayam.
345 Manickapuram.
346 Panikkampalli.
347 Basalgoundanpalayam.
348 Sekkampalayam.
349 Subbaroyapalayam.
350 Thekkampalayam.
351 Appalalayam.*
352 Ittiyoerampalayam.*
353 Nassavampalayam.*
354 Venkatapuram.*

VII. Pollachi taluk.

355 Achipatti.
356 Angalakurichi.
357 Ambarampalayam.
358 Akkilandapuram.
359 Chittoor.
360 Erisnampatti.
361 Gomangalampudur.
362 Iyerpadi.
363 Kallapuram.
364 Kinathukidavu.
365 Kollipalayam.
366 Kattampatti.
367 Kottur.
368 Kamatchipuram.
369 Kanjampatty.
370 Lakshmanapuram.
371 Malokinalickenpatti.
372 Mallamparai.
373 Malayandiipatnam.
374 Muthur.
375 Mullupadi.
376 Othalkalmandapam.
377 Okkilipalayam.
378 Perianagaram.
379 Ponnapuram.
380 Pillichinnampalayam.
381 Pollachigoundenpudur.
382 Ramanamudalipudur.
383 Sakkarpalayam.
384 Samathoor.
385 Samathurai.
386 Sethumadai.
387 Singanallur.
388 Sholavampalayam.
389 Subbiagoundenpudur.
390 Singarampalayam.
391 Thattharowthenpudur.
392 Thensangampalayam.
393 Valparai.
394 Vettalkaranpudur.
395 Chellappampalayam.
396 Karathumadam.
397 Karallampalayam.

COIMBATORE DISTRICT—cont.

VII. Pollachi taluk—cont.

398 Kurumbapalayam.
399 Mettupalayam.
400 Narayanachettipalayam.
401 Nilambur.
402 Nalligoundenpalayam.
403 Sadayagoundanpudur.
404 Sengalipalayam.
405 Senguthupalayam.
406 Sholanur.
407 Senniyur.
408 Sulakkal.
409 Somanathapuram.
410 Somanthurai.
411 Thalakarai.
412 Varadanur.
413 Chinnampalayam.*
414 Ganagampalayam.*
415 Devambadi village.*
416 Iyempalayam.*
417 Maplagoundenpudur.
418 Pethanalikanur.*
419 Sevegarampalayam.*

VIII. Udumalpet taluk.

420 Annaikadavu.
421 Adivelli.
422 Alampalayam.
423 Andiyur.
424 Ammapatti.
425 Bodinatham.
426 Bodipatti.
427 Chinnakumarapalayam.
428 Chinnavalavadi.
429 Dhalai.
430 Gudimangalam.
431 Guruvappanalickenur.
432 Illuppananagaram.
433 Jellipatti.
434 Kulipalayam.
435 Kaniyur.
436 Kallapalayam.
437 Karatholuvu.
438 Kadathur.
439 Kolumam.
440 Komaralingam.
441 Manupathi.
442 Murugapatti.
443 Marupatty.
444 Muthanalickenpatti.
445 Nallampalli.
446 Nanjagoundanpudur.
447 Peedampalli.
448 Perlapatti.
449 Perlavavadi.
450 Pukkulam.
451 Pollaipalayam.
452 Ragelbhavi.
453 Rangammampalayam.
454 Ramachandrapuram.
455 Senjivadi.
456 Sundakkampalayam.
457 Sadayagoundanpudur.
458 Udukampalayam.
459 Vanasepatti.
460 Virugapathipudur.
461 Chinnaveerampatty.
462 Kannamanalickenur.
463 Kumarapalayam.
464 Kodingiyur.
465 Koralkuttai.
466 Pulankinar.
467 Udumalpet.
468 Audlagoundenpudur.*
469 Mathrathi.*
470 Thungavari.*
471 Thummalpatty.*
472 Ponneri.*
473 Vasavandickenpatty.*

* Villages electrified during the year.

* Villages electrified during the year.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

PYKARA ELECTRICITY SYSTEM—cont.

COIMBATORE DISTRICT—cont.

IX. Kollegal taluk.

474 Kollegal.
475 Mudikondan.

X. Palladam taluk.

476 Tiruppur.

MALABAR DISTRICT.

I. Palghat taluk.

477 Ellapulli.
478 Kanjikode.
479 Paral.
480 Edathara.
481 Parli.
482 Nilambur.*

II. British Coochin.

483 British Coochin.

MADURAI DISTRICT.

I. Dindigul taluk.

484 Dindigul.
485 Chinnappatti.
486 Pittalappatti.
487 Sembatti.
488 Sevalsaraku.
489 Vakkampatti.
490 Alamarathupatty.*

II. Kodaikanal taluk.

491 Kodalkanal.
492 Shembaganur.
493 Munjikkai Junction.

III. Nilakkottai taluk.

494 Ammanalokenur.
495 Athur.
496 Ammapattai.
497 Batlagundu.
498 Chellampatti.
499 Nilakkottai.
500 Pattiveerampatti.
501 Kannamanalokenur.

IV. Palni taluk.

502 Akkamanalokenpudur.
503 Amarapundi.
504 Ayakudi.
505 Chittarevu.
506 Erumanalokenpatti.
507 Kothamangalam.
508 Nelkarappatti.
509 Palni.
510 Papanpatti.
511 Sivaginpatti.
512 Thamarakulam.
513 Thathanalokenpatti.
514 Vathagoundanvalasu.
515 Velayudhanpalayanpudur.

V. Periyakulam taluk.

516 Alagapuri.
517 Allinagaram.
518 Chinnamanur.
519 Cumbum.
520 Dombucherry.
521 Lakshmanapuram.
522 Koduvillarpatti.
523 Korampatti.
524 Nagalapuram.
525 Periyakulam.
526 Pithalappatti.
527 Ranganathapuram.
528 Srirangapuram.
529 Thottathampatti.
530 Theni.

MADURAI DISTRICT—cont.

V. Periyakulam taluk—cont.

531 Thadicherry.
532 Uttamapalayam.
533 Upparapatti.
534 Uppukottai.
535 Veerapandi.
536 Venkatasalapuram.
537 Veppampatti.
538 Vedaveeranalokenpatti.
539 Unjampatti.
540 Balakrishnapuram.
541 Ganguarapatty.
542 Sukkankalpatti.
543 Govindanagaram.*
544 Mallayagoundenpatty.*
545 Marikundu.*
546 Subbalapuram.*

NILGIRIS DISTRICT.

I. Coonoor taluk.

547 Aravankadu.
548 Aravenu.
549 Ariahutti.
550 Bearhutti.
551 Bangalmattam.
552 Edapalli.
553 Ellithorai.
554 Hulleai.
555 Hubathalai.
556 Jagathala.
557 Kattubetta.
558 Coonoor.
559 Kilkundah.
560 Kotagiri.
561 Kilkotagiri.
562 Konakal.
563 Kondilikka.
564 Korakal.
565 Manthakandy.
566 Marikal.
567 Melur.
568 Manjakombal.
569 Thennary.
570 Thathanad.
571 Wellington Cantonment.
572 Dhavani Group.
573 Jacksonal.
574 Jackathoral.
575 Hosatty.
576 Halakosai.
577 Karimolahatty.
578 Kodalkodu.
579 Paddala.
580 Pasaratty.
581 Pamaivennu.

II. Gudalur taluk.

582 Devarshola.
583 Gudalur.
584 Killur.

III. Ootacamund taluk.

585 Balacool.
586 Bokkarai.
587 Deynad.
588 Glenmorgan.
589 Hallakkoral.
590 Kelnaraj.
591 Kokkalada.
592 Kothabini.
593 Manthapli.
594 Meekari.
595 Mayunthola.
596 Melkundah.
597 Menjoor.
598 Manbhally.
599 Mudugala.
600 Mullimalai.

* Villages electrified during the year.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

PYKARA ELECTRICITY SYSTEM—cont.

NILGIRIS DISTRICT—cont.

III. Ootacamund taluk—cont.

601 Mynalla.
602 Oranhally.
603 Thangadu.
604 Devarshola.
605 Kandibickai.
606 Kamery.
607 Katchigally.
608 Mathakavadi.
609 Marikandi.
610 Ossanally.
611 Ootacamund.
612 Ketti village.*
613 Kerada.
614 Achankal.
615 Santhur.
616 Selas.
617 Palada.
618 Halada.
619 Tldeathatti.

NILGIRIS DISTRICT—cont.

III. Ootacamund taluk—cont.

620 Manapattu.
621 Thodenni.
622 Soragundur.
623 Ulleda.
624 Bikketty villages.*

SOUTH KANARA DISTRICT.

I. Udipi taluk.

625 Udipi.
626 Karakal.
627 Manipal and some parts.
628 Ambalpad.
629 Kadivur.
630 Kadekar.
631 Badagabattur.
632 Puttur.
633 Shivali.

METTUR ELECTRICITY SYSTEM.

SALEM DISTRICT.

I. Omalur taluk.

1 Mettur Dam.
2 Omalur.
3 Pachampatti.
4 Tharamangalam.
5 Jalakantapuram.
6 Veerakkal.
7 Kolathur.
8 Nattamangalam.
9 Kunjandiyur.
10 Vanavasi.
11 Tharkand.
12 Iyempudur.
13 Nangavalli.

II. Krishnagiri taluk.

14 Krishnagiri.
15 Kaveripatnam.
16 Boyanapalli.
17 Palayam.
18 Madapalli.
19 Bargur.

III. Dharmapuri taluk.

20 Dharmapuri.
21 Karimangalam.
22 Arasampatti.
23 Naduballi.†

IV. Salem taluk.

24 Yercaud.
25 Ellampalli.
26 Ayodyapatnam.
27 Kondalampatti.
28 Kurumapatti.
29 Sellampalayam.
30 Nelkarappatti.
31 Mettupatti.
32 Seshanchavadi.
33 Chinnagoundapuram.
34 Vembidithalam.
35 Jari Kondalampatti.
36 Peria Seeragapadi.
37 Chinna Seeragapadi.

V. Attur taluk.

38 Attur.
39 Dalavolpatti.
40 Valapadi.
41 Peddalanalampalayam.
42 Yethapur.
43 Narasingsapuram.
44 Chinnasamudram.
45 Sundarapuram.
46 Abinavam.
47 Umayapuram.
48 Mulluvadi.

SALEM DISTRICT—cont.

VI. Tiruchengode taluk.

49 Chettimankurichi.
50 MacDonald's Choultry.
51 Komarapalayam.
52 Mettupatti.†
53 Chittoor.†
54 Poolampatti.†

VII. Rasipuram taluk.

55 Rasipuram.
56 Mallur.
57 Singalandapuram.
58 Thengalpalayam.
59 Valasu.
60 Koneripatti.
61 Malayampatti.
62 Chandrasekarapuram.
63 Namagiripet.
64 Pudupatty.
65 Kakaveri.
66 Maskalpatti.
67 Kavandampalayam.
68 Pattanam.
69 Arasapalayam.
70 Seerapalli.
71 Chinakkakaveri.
72 Oduvankurichi.
73 Ariagoundampatty.

VIII. Namakkal taluk.

74 Erumalpatti.
75 Kondichettipatti.
76 Kongalathur.
77 Laddivadi-Pudupatti.
78 Mohanur.
79 Nallipalayam.
80 Namakkal.
81 Pandamangalam.
82 Pallikalpalayam.
83 Velur.
84 Vengarai.
85 Kalichettipatti.
86 Kalkurichi.
87 Vellalappatti.
88 Unjapalayam.
89 Kottanampalayam.
90 Nanjai Edayar.
91 Tholur.
92 Anlapuram.
93 Nallagoundanpudur.
94 Kanavaipatty.
95 Singalanakombal.
96 Paramathi.
97 Marurpatti.†
98 Pandamangalam.†
99 Ayyampalayam.†
100 Anangur.†
101 Vadagarai-Attur.†
102 Jedarpalayam.†

* Villages electrified during the year.

† The villages marked thus are electrified during 1952-53.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

METTUR ELECTRICITY SYSTEM—cont.

SALAM DISTRICT—cont.

IX. Harur taluk.

103 Singarapet.
104 Uthangarai.

COIMBATORE DISTRICT.

I. Erode taluk.

105 Chittode.
106 Edayankattuvalasu.
107 Komalamparappu.
108 Kodumudi.
109 Valavanpalayam.
110 Veerappanchatram.
111 Gundampalayam.
112 Nathamedu.
113 Pudur Suryampalayam.
114 Peria Semur.

II. Bhavani taluk.

115 Ammapet.
116 Andhlyur.
117 Bhavani.
118 Jambel.
119 Kalvavi.
120 Kesari mangalam.
121 Nerinjipet.
122 Olagadam.
123 Pudukpalayam.
124 Singampet.
125 Thalpalayam.
126 Thippichettipalayam.
127 Thottipalayam.
128 Uraichikottai.
129 Appakudal.
130 Mondipalayam.
131 Oricheri.
132 Paruvachi.
133 Perumapalayam.
134 Kondayampalayam.
135 Velli-Thiruppur.
136 Attani.
137 Michelipalayam.
138 Manickampalayam.
139 Periyadamalai palayam.
140 Ramalingapuram.
141 Andipalayam.
142 Kalingarayanpalayam.
143 Varadanallur.
144 Punnam.
145 Samudram.
146 Nadayanoor.
147 Devasthanamkattur.*
148 Kurumbapalayam.*
149 Illupali.*

TIRUCHIRAPPALLI DISTRICT.

I. Karur taluk.

150 Punal-Pugalur.
151 Semangal.
152 Thottakurichi.
153 Uppidamangalam.
154 Vennamalai.
155 Pullyur.
156 Nanaparappu.
157 Thanthonipatti.
158 Thirumalaisathampatti.
159 Lakshmiipatty.
160 Noyyal.

II. Kuttihal taluk.

161 Ranganathapuram.
162 Manavadi.
163 Veerarakkiam.
164 Balaramapuram.

CHITTOOR DISTRICT.

I. Chandragiri taluk.

165 Kalroadpalli.
166 Pakala.
167 Mungilpet.
168 Kasipantala.
169 Kothampalli.
170 Nadimpalli.
171 Guruvappagarupalli.
172 Agurala.

II. Kangudi Zemin.

173 Krishnapuram.*
174 Settipalli.*
175 Beggipalli.*
176 Nallarellapalli.*
177 Ponnappalli.*
178 Jogyanoor.*

III. Palamaner taluk.

179 Kuppam.
180 Dandikuppam.

IV. Tiruttani taluk.

181 Tiruttani.
182 Nagari.
183 Ekambarakuppam.
184 Keelapatti.
185 Kumarakuppam.
186 Ponpadi.
187 Ramnagar.
188 Velur Krishna Naidu Kandigal.
189 Buchi Naidu Kandigal.
190 Thirubalacheruvu Kandigal.
191 Veerakavirajapuram.
192 Kothur.
193 Thadukupet.
194 Narasingapuram.*
195 Erumbi.*
196 Murukkampet.*

NORTH ARCOT DISTRICT.

I. Arkonam taluk.

197 Attupakkam.
198 Arkonam.
199 Arigilvadi.
200 Asanalikuppam.
201 Nemili.
202 Pullamangalam.
203 Parameswara mangalam.
204 Sayanavaram.
205 Takkolam.
206 Panappakkam.
207 Ocheri.
208 Puder.
209 Salai.
210 Tirumalpur.
211 Tirumadalampakkam.
212 Manattucheri.*
213 Kalnoor.*
214 Thandalam.*
215 Gururajput.*
216 Chittambidi.*
217 Perumalrajupet.*
218 Sunkarambur.*
219 Ayerpadi.*
220 Melpulam.*

II. Vellore taluk.

221 Shembakkam.
222 Polur.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

METTUR ELECTRICITY SYSTEM—cont.

NORTH ARCOT DISTRICT—cont.

III. Polur taluk.

223 Kunnathur.
224 Bindripet.
225 Kuruvimalai.
226 Kappalur.
227 Kalasapakkam.
228 Tendapillipatty.
229 Mothupalayam.
230 Pillur.
231 Palankoll.

IV. Chengam taluk.

232 Meisurupakkam.
233 Kilairupakkam.
234 Melchettipattu.

V. Wallajah taluk.

235 Allacheri.
236 Arumbakkam.
237 Kalavai.
238 Kaveripauk.
239 Kadepperi.
240 Lokapuram.
241 Ozgur.
242 Sathembakkam.
243 Sumathangal.
244 Talangal.
245 Vangur.
246 Valluvambakkam.
247 Sholinghur.
248 Pennagar.
249 Pagavalli.
250 Karukkantthangal.
251 Velur.
252 Macheri.*
253 Randam.*
254 Attipattu.*
255 Thiruparkadal.*

VI. Arni taluk.

256 Arni.
257 Kalambur.
258 Satyavilayanagaram.
259 Kondavetti Thangal.
260 Palanganoor.
261 Melappuduppakkam.
262 Mambakkam.
263 Valapandal.
264 Katteri.
265 Nadukuppam.
266 Melapalandal.
267 Mamandoor.
268 Puluvampadi.
269 Tirumalaisamudram.
270 Samanthapady.
271 Neral.
272 Melayerayanoor.*
273 Kattur.*
274 Mattatharai.*
275 Nyndol.*

VII. Cheyyar taluk.

276 Tiruvettipuram.
277 Korakkai.
278 Soraiyur.
279 Sathuvanthagal.
280 Poonthandalam.
281 Kannikuluppal.*

VIII. Wandiwash taluk.

282 Wandiwash.
283 Ammayapattur.*

IX. Tiruvannamalai taluk.

284 Adayur.
285 Devannandal.
286 Nallavampalayam.
287 Vengikal.
288 Attyandil.
289 Anapirandan.
290 Vettavalam.

NORTH ARCOT DISTRICT—cont.

IX. Tiruvannamalai taluk—cont.

291 Arasudayampalli.*
292 Mullivadi.*
293 Usampadi.*
294 Durgalnambaland.*
295 Sorandai.*
296 Tiruvannamalai.

X. Tirupattur taluk.

297 Annandapatti.
298 Christukulasaram.
299 Extension to four wells.
300 Jolarpet.
301 Jolarpet-Vaniyambadi Lines.
302 Pachaimitta.
303 Kasinayagampatti.
304 Agraharam.
305 Elagiri.
306 Kodiyur.

XI. Gudiyattam taluk.

307 Pernambut.
308 Omerabad.
309 Nariyampet.
310 Anganallur.
311 Natham.
312 Bhimapuram.
313 Talayatham.
314 Cherugangi.
315 Gudiyatham.
316 Damalacheruvu.
317 Vadakathipatti.
318 Melumuttukkar.
319 Singalpadi.
320 Balur.
321 Kothur.
322 Kondasamudram.
323 Pakkam.
324 Kallur.
325 Chedukarai.
326 Alathur.
327 Melathur.
328 Madanur.
329 Tattalam.
330 Kalleri.
331 Sathgur.
332 Ayithempet.
333 Machempet.

SOUTH ARCOT DISTRICT.

I. Tirukkottur taluk.

334 Kalandal.
335 Meyyur.
336 Sirumadurai.
337 Tirukkottur.
338 T. Pudukpalayam.
339 Veerapandy.
340 Poyyarasur.
341 T. Edayar.
342 Vellambudur.
343 Devanur.
344 Kalamarudhur.
345 Ulundurpet.
346 Semmananghur.
347 Kumaramangalam.
348 Pullikal.*
349 Tiruvannainallur.*

II. Villupuram taluk.

350 Kandamandal.
351 Kaveripakkam.
352 Pidagam.
353 Agaram.
354 Gramammalayampatti.

* The villages marked thus are electrified during 1952-53.

* The villages marked thus are electrified during 1952-53.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

METTUR ELECTRICITY SYSTEM—cont.

SOUTH ARCOT DISTRICT—cont.

III. Vriddhachalam taluk.

355 Vriddhachalam.
356 Mangalampet.
357 Karunatham.

IV. Cuddalore taluk.

358 Kadambuliur.
359 Melarungunam.
360 Manamandaputhur.

SOUTH ARCOT DISTRICT—cont.

IV. Cuddalore taluk—cont.

361 Natham.
362 Semakotai.
363 Rayapalayam.
364 Tiruvavur.
365 Veeraperumanallur.
366 Visur.*
367 Karukkal.*
368 Sommedu.*

PAPANASAM ELECTRICITY SYSTEM.

MADURAI DISTRICT.

I. Madurai taluk.

1 Austinpatti.
2 Avaniyapuram.
3 Harveypatti.
4 Palanganatham.
5 Panayoor.
6 Pasumalai.
7 Tirupparankundram.
8 Veeramadayam.
9 Alagapuri.
10 Kuthiyarkundu.
11 Samayanallur.
12 Sholavandan.
13 Vadapalanji.
14 Avaniapuram.
15 Ayyanapuram.
16 Vilacheri.
17 Villapuram.
18 Thenur.
19 Veeratanur.
20 Viraganoor.
21 Madakulam.
22 Atchambathur.

II. Melur taluk.

23 Melur.
24 Thiruvadavoor.
25 Thekkuppatti.
26 Veppadappu.

III. Tirumangalam taluk.

27 Dharmathupatti.
28 Kalligudi.
29 Kappalur.
30 Kinnimangalam.
31 Maravankulam.
32 Melappatti.
33 Muthupatti.
34 Palakkapudupatti.
35 Thempalanji.
36 Tirumangalam.
37 Vadagarai.
38 Sengulam.
39 Yatchapatti.
40 Pudupatti.
41 Vadappampatti.
42 Venkatasamudram.
43 Sengappadai.
44 Kinnimangalam.
45 Rayapalayam.
46 Kakkampatti.
47 Soundararajapuram.
48 Achampatti.
49 Alampatti.
50 Kunnathur.
51 Peraiyur.*
52 Kallupatti.*

RAMANATHAPURAM DISTRICT.

I. Sattur taluk.

53 Chinnamoopanpatti.
54 Kattalapatti.
55 Kokkilarjeri.
56 Koorakkundu.
57 Pavalai.
58 Puliyangulam.
59 Sattur.
60 Sivakasi.
61 Sulakkurai.
62 Thiruthangal.
63 Valliyur.
64 Kumaralingapuram.
65 Sengamelanatchiarapuram.
66 Avadiyapuram.
67 Veerapatti.
68 Paralpatti.
69 Moenampatti.
70 Vadalmatalapuram.
71 Othayal.
72 Mettupatti.
73 Kattalamampatti.
74 Chandrasulapuram.
75 Collegenagar (VDH).
76 Pudusurankudi.
77 Nadusurankudi.
78 Kamalsurankudi.
79 Duraisamyapuram.
80 Lakshmiapuram.
81 Sengamalampatti.*

II. Aruppukottai taluk.

82 Aruppukottai.
83 Gopalapuram.
84 Palayampatti.
85 Tiruchuli.
86 Kalluruchandal.
87 Thottiyankulam.
88 Palavanatham.

III. Tiruvadanai taluk.

89 Tirumanjalai.

IV. Thirupattur taluk.

90 Mahibalanpatti.
91 Eraniyur.
92 Kandavarayanpatti.
93 A. Thekkur.
94 Poolankurichi.
95 Sevvoo.
96 Neikuppai.
97 Thirupattur.
98 Kandaramanickam.
99 Pattamangalam.
100 Chockanathapuram.
101 Adappanendal.
102 Senthivayal.
103 Tirukkalkudi.

* Electrified during the year 1952-53.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

PAPANASAM ELECTRICITY SYSTEM—cont.

RAMANATHAPURAM DISTRICT—cont.

V. Sivaganga taluk.

104 Okkur.
105 Keelapoongudi.
106 Paganeri.
107 Alwarkottai.
108 Kilamangalam.
109 Madugapatti.
110 Sholapuram.

VI. Srivilliputtur taluk.

111 Ramachandrapuram.
112 Ramalingapuram.
113 Nachiyarpatti.
114 Pappanaiokampatti.
115 Appanaiokampatti.
116 Managaseri.
117 Mullikulam.
118 Nottikulam.
119 Pattakulam.
120 Pudur.
121 Nagapalayam.*
122 Villuppanur.*
123 Reddipatti.*
124 Atchankulam.*
125 Semandikaraisalkulam.*
126 Nakkamangalam.*
127 Sallipatti.*
128 Nariyankulam.*
129 Muthuvankatarayapuram.*
130 Penalpatti.*
131 Kondarayankulam.*
132 Kupatchipatti.*
133 Thetchakudy.*
134 Thiruvankadapuram.*
135 Kodangipatti.*
136 Atchankavirathan.*
137 Akkaralpatti.*
138 Svalgaripatti.*
139 Sengamalalpatti.*

TIRUNELVELI DISTRICT.

I. Koilpatti taluk.

140 Ettayapuram.
141 Kovilpatti.
142 Pudukkudi.
143 Kallampatti.
144 Nalattinipudur.
145 Kadambur.
146 Thirumalapuram.
147 Chinnamaniasol.
148 Villiseri.
149 Medukkunendampatti.
150 Idalseval.
151 Chattrapatti.
152 Patambukottai.
153 Ileyarasanendal.
154 Iyeneri.
155 Venkatachalapuram.
156 Devarkulam.
157 Sannandhipudukudi.
158 Chittrachattaram.
159 Alampatti.*
160 Chattrampatti.*
161 Thonugal.*
162 New Appaneri.*
163 Padanthapatti.*

II. Tenkasi taluk.

164 Courtallam.
165 Erappan.
166 Nanji.
167 Kadayam.
168 Kilakkadayam.
169 Kilappuliyur.
170 Madavaram.
171 Mathalamampatti.
172 Mudallarpatti.
173 Perampathur.

TIRUNELVELI DISTRICT—cont.

II. Tenkasi taluk—cont.

174 Pottalpudur.
175 Tenkasi.
176 Vallam.
177 Melagaram.
178 Idalkal.
179 Pothukudi.
180 Yurmelalagian.
181 Nainaragaram.
182 Kadayanallur.
183 Patukkadaivalai.
184 Krishnapuram.
185 Mavadaikal.
186 Muthukrishnapuram.*
187 Kumundapuram.
188 Adakarangalam.
189 Arumugampatti.
190 Chinappanayankulam.
191 Manimuthar Dam Colony.

III. Ambasamudram taluk.

192 Ariyanayagipuram.
193 Kallidaikurichi.
194 Karakurichi.
195 Mukkudal.
196 Mundanthoral.
197 Papanasam.
198 Pattamadai.
199 Pitancheri.
200 Sermadevi.
201 Vaniankulam.
202 Viravanallur.
203 Vellodal.
204 Vikramasingapuram.
205 Alwarkurichi.
206 Ambur.
207 Athalanallur.
208 Brahmadesam.
209 Girimalapuram.
210 Harikesavanallur.
211 Kunlyur.
212 Manapanallur.
213 Mannarkoil.
214 Melacheval.
215 Mudappapuram.
216 Rathapuram.
217 Seelapuram.
218 Serankollipatti.
219 Thirupudiamaruthur.
220 Vagalkulam.
221 Velangudi.
222 Kodarungulam.
223 Yurkad.
224 Singampatti.
225 Gopalasamudram.
226 Adalchani.
227 Pappankulam.
228 Chinnappanayankulam.
229 Ambasamudram.
230 Rengasamudram.*
231 Battuppathu.*
232 Singampathur.*

IV. Tirunelveli taluk.

233 Gangalkondan.
234 Thalayuthu.
235 Sankarankoil.
236 Puliyankulam.
237 Rameswaram.
238 Sivakasi.
239 Virudhunagar.
240 Rajapalayam.
241 Srivilliputtur.
242 Karalkulam.
243 Sammandapuram.
244 Singamalur.
245 Athikulam Sengulam.
246 Venkateswarapuram.
247 Pudukaruvithan.
248 Kalugumalai.*
249 Chattramkudiyeruppu.*

* Electrified during the year 1952-53

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

MADRAS ELECTRICITY SYSTEM.

MADRAS DISTRICT.

- 1 Madras City including Saidapet, Little Mount and Guindy.
- 2 Madras City area comprising the former Sembiam Panchayat Board.

CHINGLEPUT DISTRICT.

- 3 Agaram.
- 4 Agarammel.
- 5 Alandur.
- 6 Ambattur.
- 7 Anagaputhur.
- 8 Ariyamanallur.
- 9 Arumbakkam.
- 10 Ayyappanthangal.*
- 11 Baluchetty Chatram.
- 12 Chembarambakkam.
- 13 Chittlapakkam.
- 14 Chromepet.
- 15 Damal.
- 16 Edappalayam.
- 17 Ennore (Kathivakkam).
- 18 Gollachavadi.
- 19 Hasnapuram (Nehru Nagar).
- 20 Ikkadu.
- 21 Ikkudukandigal.
- 22 Kadambathur.
- 23 Kodambakkam.
- 24 Kadapari village.
- 25 Kalyankuppam.
- 26 Kancheepuram Town.
- 27 Karambakkam.
- 28 Karani.
- 29 Keerakkuppam.*
- 30 Kesavanalathur.
- 31 Kilambi.
- 32 Kilamanamedu.*
- 33 Kollacheri.
- 34 Kunnathur.
- 35 Madambakkam.
- 36 Madhanandapuram.*
- 37 Madavilagam.
- 38 Malayambakkam.
- 39 Manancheri.
- 40 Manapakkam.
- 41 Mangadu.
- 42 Meenambakkam.
- 43 Meppur.
- 44 Moonrankattal.
- 45 Muduchoor.*
- 46 Mudalivakkam.*

CHINGLEPUT DISTRICT—cont.

- 47 Nanganallur.
- 48 Nazarethpet.
- 49 Nedungaral.
- 50 Nemili.*
- 51 Ondikuppam.
- 52 Othkadu.
- 53 Pallavaram.
- 54 Pallayasevaram.
- 55 Pammal.
- 56 Periakudal.
- 57 Periyakuppam.
- 58 Perambakkam.
- 59 Perungallathur.*
- 60 Pillaiarkuppam.
- 61 Poonamallee.
- 62 Poondi.
- 63 Porur.
- 64 Farayankuppam.
- 65 Pudumavilangal.
- 66 Pungathur.
- 67 Pulligamvakkam.
- 68 Rajakilpaukum.
- 69 Santhosapuram.
- 70 Selai.
- 71 Selayur.
- 72 Sombakkam.
- 73 Seneerkuppam.
- 74 Sethiarpit.
- 75 Sri Devikuppam.
- 76 St. Thomas Mount.
- 77 Thalainagaram.*
- 78 Tambaram.
- 79 Thandalam.*
- 80 Thirukazhukundram.
- 81 Thirumangalam.
- 82 Thirunageswaram.
- 83 Thiruneeermalai.*
- 84 Thirupakkulal.*
- 85 Thiruvannamlyur.
- 86 Thiruvallur Town.
- 87 Thiruvottiyur.
- 88 Thulukancheri.
- 89 Valasavakkam.
- 90 Varadarajapuram (Sriperumbudur taluk).
- 91 Varadarajapuram (Saidapet taluk).*
- 92 Vengathur (near Ondikuppam).
- 93 Venkatapuram.
- 94 Vemanaboorthur.
- 95 Villivakkam.
- 96 Virugambakkam.
- 97 Vyasarpadl.

ANDHRA POWER SYSTEM.

SRIKAKULAM DISTRICT.

I. Srikakulam taluk.

- 1 Srikakulam.
- 2 Gusaratipeta.
- 3 Narasannapeta.

II. Chipurupalli taluk.

- 4 Garividi.
- 5 Chipurupalli.
- 6 Bripuram.
- 7 Garbham.
- 8 Burjavala.*
- 9 Kumaram.
- 10 Chittivalasa.*

III. Vizianagaram taluk.

- 11 Nellimarla.
- 12 Penubarti.
- 13 Vanitladi.
- 14 Moida (Vizianagaram taluk).
- 15 Vizianagaram.
- 16 Atchutapuram.
- 17 Gudivindala Agraharam.
- 18 Rajayyapeta.*

IV. Salur taluk.

- 19 Salur.
- 20 Paradal.
- 21 Ramachandrapuram.
- 22 Gurrampalem.*

V. Bobbili taluk.

- 23 Sithanagaram.
- 24 Kasipeta.*

SRIKAKULAM DISTRICT—cont.

VI. Parvathipuram taluk.

- 25 Parvathipuram.

VISAKHAPATNAM DISTRICT.

I. Visakhapatnam taluk.

- 26 Hanumanthakam.
- 27 Pedavalteru.
- 28 Simhachalam.
- 29 Malakapuram.
- 30 Nakkavanapalem.
- 31 Pedagadi.
- 32 Penudurthi.
- 33 Narava.
- 34 Balacheruvu.
- 35 Sarapalle.
- 36 Chintala Agraharam.
- 37 Gopalapatnam.*

II. Anakapalle taluk.

- 38 Duvvada.
- 39 Aganampudi.
- 40 Turmapala.

III. Veeravalli taluk.

- 41 Chodavaram.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government
Electricity department as at the end of 1952-53—cont.

ANDHRA POWER SYSTEM—cont.

VISAKHAPATNAM DISTRICT—cont.

IV. Bheemunipatnam taluk.

- 42 Nagarappalem.
- 43 Rayapalem.
- 44 Bheemunipatnam.
- 45 Chittivalasa.
- 46 Tagarapuvallasa.
- 47 Thoditturu.
- 48 Kummariapalem.
- 49 Boni.
- 50 Keetimpetta.

KRISHNA DISTRICT.

I. Nuzvid taluk.

- 51 Gollapalli.
- 52 Mirzapuram.
- 53 Narasapudi.
- 54 Nuzvid.
- 55 Ramannagudem.
- 56 Tukkur.
- 57 Vattigudupadu.
- 58 Polasnapalli.
- 59 Pothureddipalli.
- 60 Billanapalli.
- 61 Kothapalli.

II. Vijayavada taluk.

- 62 Podapullapaka.
- 63 Ambapuram.
- 64 Bavanipuram.
- 65 Inikepadi.
- 66 Ganguru.
- 67 Garikeparuru.
- 68 Gunadala.
- 69 Gosala.
- 70 Idupugallu.
- 71 Machavaram.
- 72 Mogalrajapuram.
- 73 Machyalampadu.
- 74 Patamata.
- 75 Poranki.
- 76 Tadigadapa.
- 77 Vidyadharapuram.
- 78 Ramavarapadu.
- 79 Tadepalli.
- 80 Nidamanur.
- 81 Godavarru.
- 82 Pathamathalanka.
- 83 Neppalli.*
- 84 Kankipadu.*
- 85 Enamalakuduru.*
- 86 Gudavalli.*
- 87 Punadipadu.*

III. Gannavaram taluk.

- 88 Ampapuram.
- 89 Chinavogirala.
- 90 Yenamalakuduru.
- 91 Gannavaram.
- 92 Kanakapalli.
- 93 Kanumur.
- 94 Pedavegtrala.
- 95 Penamalur.
- 96 Sevarigudem.
- 97 Vanukur.
- 98 Vuyyur.
- 99 Kondapavulur.
- 100 Atukur.
- 101 Telaprolu.
- 102 Ponnipadu.
- 103 Purasadapadu.
- 104 Akunur.
- 105 Ekanur.
- 106 Gandigunta.
- 107 Konumolu.
- 108 Gudavalli.*
- 109 Kesarapalli.*

IV. Bandar taluk.

- 110 Pedana.
- 111 Chilikalapudi.

GUNTUR DISTRICT.

I. Guntur taluk.

- 112 Atmakur.
- 113 Angalakuduru.
- 114 Chinnaakani.
- 115 Kaza.
- 116 Kakanl.
- 117 Kolanukonda.
- 118 Narakodu.
- 119 Gundimeda.
- 120 Nallampudu.
- 121 Nattaki.
- 122 Peddapalem.
- 123 Revendrapadu.
- 124 Vaddeswaram.*
- 125 Thummapudi.*

II. Ongole taluk.

- 126 Ongole.

III. Narasaraopet taluk.

- 127 Narasaraopet.

IV. Tenali taluk.

- 128 Sangamjagarlamudi.
- 129 Chinnaapalem.*
- 130 Perukalapudi.*
- 131 Srungarapuram.*

V. Bapalla taluk.

- 132 Chebrolu.
- 133 Vadlanur.
- 134 Vahram.

EAST GODAVARI DISTRICT.

I. Kakinada taluk.

- 135 Samalkot.
- 136 Kakinada.
- 137 Endrapalem.
- 138 Gogulapadu.

II. Peddapuram taluk.

- 139 Peddapuram.

III. Pithapuram taluk.

- 140 Pithapuram.
- 141 Gollaprolu.
- 142 Kumarapuram.
- 143 Chitrada.
- 144 Uppada.*

IV. Ramachandrapuram taluk.

- 145 Velangi.
- 146 Ramachandrapuram.
- 147 Mandapeta.
- 148 Pasalapudi.
- 149 Gailolupadu.
- 150 Vemuluvada.
- 151 Biktavur.
- 152 Tapaswaram.*
- 153 Chodavaram.*

V. Rajahmundry taluk.

- 154 Kateru.
- 155 Radiyam.
- 156 Bommaru.
- 157 Hukkumpeta.
- 158 Dulla.
- 159 Veeravaram.
- 160 Jegurupadu.
- 161 Muromanda.
- 162 Kadiyapulanka.*
- 163 Burlanka.*

VI. Amalapuram taluk.

- 164 Amalapuram.
- 165 Ambajipeta.*
- 166 Bodasakurru.*
- 167 Peruru.*
- 168 Anantavaram.*
- 169 Bandarilanka.*

* List of villages electrified during the year 1952-53.

APPENDIX H-1—cont.

List of villages and townships supplied with electrical energy by the Government Electricity department as at the end of 1952-53—cont.

ANDHRA POWER SYSTEM—cont.

WEST GODAVARI DISTRICT.

I. Eluru taluk:

170 Kalapattu.
171 Bapulapadu.
172 Bommalur.
173 Pulla.
174 Kakkaram.
175 Narayanavaram.
176 Ungutur.
177 Tadepalligudem.
178 Pentapadu.
179 Attili.
180 Bhimadolu.
181 Kovvalli.
182 Pothunuru.
183 Gundugolannu.
184 Dendalur.
185 Gopannalem.
186 Galavagudam.
187 Munduru.
188 Kavagunta.
189 Relangi.

WEST GODAVARI DISTRICT—cont.

I. Eluru taluk—cont.

190 Velpuru.
191 Tanuku.
192 Nidadavolu.
193 Chebrole.*
194 Ganapavaram.*
195 Undli.*
196 Akiveedu.*
197 Palasole.*
198 Narasapuram.*
199 Veeravaram.*
200 Martair.*
201 Bhimavaram.*
202 Naguladevunipadu.*
203 Kothapalli.*
204 Pedavegi.*
205 Palasapalli.*
206 Challaichintalapudi.*
207 Jagannadhapuram.*
208 Chodimella.*

RAYALASEEMA POWER SYSTEM.

KURNOOL AREA.

KURNOOL DISTRICT.

I. Kurnool taluk.

1 Kurnool Town.
2 Rosa village.
3 Nandyal.*

OBERD DISTRICTS.

4 Kudligi.
5 Hagari Bommanahalli.*
6 Tungabhadra Dam.
7 Ramapannapalle.
8 Chittivadagi.
9 Hospet.
10 Bellary.
11 Guntakal.
12 Alur.
13 Halaharvi.
14 Amaravathi.
15 Rayadurg.
16 Sandur.
17 Chikkasandur.
18 Hindupur.
19 Kottur.
20 Adoni.
21 Paramadayanahalli.
22 Hathibelagol.*

OBERD DISTRICTS—cont.

23 Yemmiganur.*
24 Hirhal.*

NELLORE DISTRICT.

25 Nellore.
26 Kovur.
27 Gudur.
28 Kavali.*

ANANTAPUR DISTRICT.

29 Anantapur.
30 Tadipatri.*
31 Mota.*
32 Peddireddipalli.*
33 Konakondia.*

CUDDAPAH DISTRICT.

34 Cuddapah Town.
35 Ramapalle village.
36 Erramukkapalli.*

Proddatur taluk.

37 Proddatur.
38 Rachinayapalli.

* List of villages electrified during the year 1952-53.

APPENDIX H-2.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships
1	Anakapalle	Visakhapatnam ..	Anakapalle	1	Anakapalle town.
2	Vijayavada	Krishna .. ..	.....	2	Vijayavada
3	Bodinayakanur ..	Madurai	Periyakulam ..	3	Bodinayakanur ..
4	Bobbili	Visakhapatnam ..	Bobbili	4	Bobbili
5	Coimbatore	Coimbatore .. ..	.....	5	Coimbatore
				6	Kumarapattanam.*
				7	Nanjundapuram.*
				8	Sundakannur.*
6	Kozhikode	Malabar	Kozhikode	9	Kozhikode town.
			Ernad	10	Feroze town.
				11	Nallalam.
				12	Cheruvu.
				13	Parappady.
				14	Marikannur.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
7	Chittoor	Chittoor .. ..	.....	15	Kattamanchi.
				16	Chittoor town.
				17	Santhapet.
				18	Greamspet (all within municipality).
				19	Iruvaram village (outside).
				20	Doddipatie.
				21	Kongareddipalli.
				22	Murukambut.
				23	Kothur.
				24	Poonapalle.
				25	Kajavagunta.
				26	Kajur.
				27	Mangasamudram.
				28	Thimmasamudram.
				29	Iruvaram.
				30	Horrigalipalle.*
				31	Venganapalle.*
				32	Kukkulpalle.*
				33	Konapalle.*
				34	Kannavari Mitta.*
				35	Chingleput.
				36	Tirumani village.
				37	Thimmaravaram.
				38	Attur.
				39	Melamayar.
				40	Edayankadu.
				41	Vadapathi.
				42	Villiyambakkam.
				43	Vembakkam.
				44	Atturkuppam.
				45	Osmanore.
				46	Chovva.
				47	Cantonment.
				48	Vallikunnu.
				49	Pallikulam.
				50	Ballaipattam.
				51	Pappinicherry.
				52	Tellicherry.
				53	Kakkat village.
				54	Dharmadam.
				55	Etakkat village.
				56	Mushappilangad.
				57	Chirakkal.
				58	Erinjoly.
				59	Chonadum.
				60	Thalay.
				61	Pallikannu.
				62	Thettada-Madal-Kanjangad.
				63	Azhikkal.
				64	Kishuthally.
				65	Chirakkal-Kattam-palli.
				66	Kolasseri.
				67	Mundayad.*
				68	Dharmadam.*
				69	Trottadu.*
				70	Nadal.*
				71	Vaniyambadi.
				72	Fudur.
				73	Devasthanam.
				74	Old Vaniyambadi.
				75	Chettiyappanur.
				76	Ambur.
				77	Alankuppam.
				78	Solur.
				79	Sanenkuppam.
				80	Tharavalli.
				81	Devalapuram.
				82	Thuthipet.
				83	Upparapalli.
				84	Kandrapalli.
				85	Labbatmakuppam.
				86	Chinnayankata-samudram.
				87	Periavankata-samudram.
				88	Govindapuram.
				89	Marapet.
				90	Chengalkuppam.
				91	Alangkulam.
				92	Venkatasaamudram.
				93	Marapattu.
				94	Adagiri.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships
11	Devakottai	Ramanathapuram ..	....	95	Devakottai.
12	East Coast	Srikakulam .. ..	....	96	Shanmughanatha-
13	East Tanjore	Tanjore	Arantangi	97	Thamizhanoorani.
			Mannargudi	98	Ichapur.
				99	Arantangi.
				100	Mannargudi town (two
					wards).
				101	Kuthanallur town.
				102	Puvanur.
				103	Ullikottai.
				104	Melavasal.
				105	Nidamangalam.
				106	Perambur.
				107	Athikadai.
				108	Kamalapuram.
				109	Kottayur.
				110	Avikottai.
				111	Pamini.
				112	Serankulam.
				113	Karnavur.
				114	Alacheri.
				115	Budamangalam.
				116	Lakshmanagudi.
				117	Koradacheri.
				118	Velukudi.
				119	Mulangudi.
				120	Vadapathimangalam
					town.
			Mayuram	121	Mayuram town
					(nine wards).
				122	Kuttalam town.
				123	Tranquebar town.
				124	Tirumancheri.
				125	Kilayur.
				126	Anjaravathalai.
				127	Tholathalangudi.
				128	Nallathankudi.
				129	Arivalur.
				130	Akkur.
				131	Ananthandavapuram.
				132	Chittarakadu.
				133	Eravanjeri.
				134	Kadalangudi.
				135	Komal.
				136	Konerirajapuram.
				137	Mangalanallur.
				138	Nidur.
				139	Perumalkoil (Theri-
					zhandur).
				140	Melayur.
				141	Sembanarkoil.
				142	Mulayur.
				143	Muppudugai.
				144	Theruvishandur.
				145	Vandirajapuram.
				146	Aryapuram.
				147	Kothangudi.
				148	Ambanathapuram.
				149	Solachakkaranallur.
				150	Tirukkadayur.
				151	Vadagarai (Arangadu).
				152	Porayar.
				153	Bruckattancheri.
				154	Kilanthangudi.
				155	Kumaramangalam.
				156	Kollumangudi.
				157	Kallappanallur.
				158	Kalahastinapuram.
				159	Mozhiyur.
				160	Pahavarayapet.
			Nannilam	161	Achutamangalam.
				162	Ammayappan.
				163	Analkuppan.
				164	Enangudi.
				165	Adalliyur.
				166	Kamalapuram.
				167	Kanlancheri.
				168	Kodavasal.
				169	Kulikkurai.
				170	Peruthuralkudi.
				171	Marudavancheri.
				172	Mudikondan.
				173	Mulangudi.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
13	East Tanjore—cont.	Tanjore—cont.	.. Nannilam—cont.	174	Nannilam.
				175	Peralam.
				176	Nallamangudi.
				177	Puttagaram.
				178	Senanallur.
				179	Mapplikkulam.
				180	Thirukandeswaram.
				181	Sengalipuram.
				182	Manavalanpettai.
				183	Srivanchiyam.
				184	Tittacheri.
				185	Tirukkannapuram.
				186	Tirupugalore.
				187	Virkkudi (Vettar).
				188	Vishnupuram.
				189	Vadamattam.
				190	Pavithramanjekam.
				191	Arasavanangadu.
				192	Semmangudi.
				193	Tirukkalambur (Sellur).
				194	Tiruvishimalai.
				195	Kothangudi.
				196	Koothanur.
				197	Poonthottam.
				198	Kolthirumangalam.
				199	Uttarangudi.
				200	Marungur.
				201	Thediyur.
				202	Thirumarugal.
				203	Pradraman.
				204	Vadugakudi.
				205	Kadagambadl.
				206	Manavanallur.
				207	Keeranur.
				208	Vandampalai.
				209	Tirukkannamangal.
				210	Podakudi.
				211	Kuvallikkai.
				212	Tiruvarur town
					(4 wards).
				213	Alangudi.
				214	Vissayapuram.
				215	Kodalkaipalayam.
				216	Alivalam.
				217	Toppalampuliyur.
				218	Pulivalam.
				219	Thirukkuvalai.
				220	Ettukudi.
				221	Gudur.
				222	Olan.
				223	Mavoor.
				224	Kolapadu.
				225	Manakudi.
				226	Alathambadi.
				227	Apparakudi.
				228	Tennavarayanallur.
				229	Vallivalam.
				230	Kunniyur.
				231	Pinnavassal.
				232	Athamangalam.
				233	Kovilkannappur.
				234	Alangudi.
				235	Karuppur.*
				236	Maruthampattanam.*
				237	Pattukottai town.
				238	Adirampatinam.
				239	Anakkadu.
				240	Madukkur.
				241	Nattuchalal.
				242	Movlur.
				243	Thuvrankurichi.
				244	Vadaseri.*
				245	Shiyali town.
				246	Vaitheswarankoil.
				247	Thadalankoil.
				248	Analkaranchoatram.
				249	Iveli.
				250	Kadhitramangalam.
				251	Vilandarasamudram.
				252	Vellam.
				253	Ellupatti.
				254	Tiruturaiyandi town
					(14 wards).
				255	Muthupet town
					(14 wards).
				256	Udayamarthanda-
					puram.
				257	Alangadu.

APPENDIX H.2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
13	East Tanjore—cont.	Tanjore—cont.	Tiruturaipundi—cont.	258	Idaiyur.
				259	Manalai.
				260	Mangudi.
				261	Pandi.
				262	Sengandi.
				263	Thalanayar.
				264	Palayangudi.
				265	Tillalvilagam.
				266	Kodiyalathur.
				267	Nedumbalam.
				268	Siddamall.
				269	Vedaranyam.
				270	Topputhurai.
				271	Karuppanpalam.
				272	Vymodu.
				273	Tirukkaravasal.
				274	Kattumadu.
				275	Segal.
				276	Thagattur.
				277	Serupaniyur.
				278	Tiruthangur.
			One village	279	Jambuvanodal.
				280	Vadagadu.
				281	Velur.
			Nannilam	282	Serukalathur.
				283	Annaivadapatti.
				284	Keelavalayur.
				285	Kappanamangalam.
				286	Mulangudi.
				287	Elaiyur.
				288	Perumpannalyur.
				289	Perumalagaram.
				290	Melapalaiyur.
			Mannargudi	291	Paravakkottai.
				292	Athikottai.
				293	Maligaimedu.
				294	Chitrayur.
				295	Kumarattithidal.*
			Mayuram	296	Kadilangudi.
14	East Ramanathapuram.	Ramanathapuram ..	Mudukulattur	297	Abiramam town.
				298	Kamudhi.
				299	Nallakurichi.
				300	Pudupatti.
				301	Sadayamendal.*
			Paramakudi	302	Emaneswaram.
				303	Dayankudi town.
				304	Paramakudi.
				305	Ayyakkudi.
				306	Athikarai.
				307	Puduri.
				308	Nalnarkoll.
				309	Sathikarakudi.
				310	Thellichathanallur.
				311	Katchathanallur.
				312	Muthuvallasai (Merapur).
				313	Keelakottai.
				314	Nemmari.
				315	Muttakurichi.
				316	Urapalli.
				317	Kurichi.*
			Ramanathapuram ..	318	Kilakarai town.
				319	Ramanathapuram town.
				320	Sakkarakottai.
				321	Tiruppulani.
				322	Marakayar Pattinam.
				323	Mandapam.
				324	Uchipuli.*
				325	Mandapam camp.*
				326	Thatanthope.*
			Sivaganga	327	Manamadura.
				328	Dayapuram.
				329	Tirupuvanam.
				330	Keeladi.
				331	Manalur.
				332	Palayur.*
			Tiruppattur	333	Kallai.
				334	Sembanur.
				335	Singampunari.
				336	Kalappur.
15	Eluru	West Godavari ..	Eluru	337	Eluru.

APPENDIX H.2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
16	Guntur	Guntur	Guntur	338	Guntur town.
			Tenali	339	Mangalagiri.
				340	Tenali town.
				341	Angalakuduru.
				342	Sangamjagarlamudi.
				343	Vadlamudi.
				344	Edlapalli.
				345	Valliveru.
			Bapatla	346	Chebrole.
				347	Chavaripalam.
17	Gudivada	Krishna .. ..	....	348	Gudivada.
18	Kanadukathan ..	Ramanathapuram.	Tiruppattur	349	Kanadukathan.
				350	Pallathur.
				351	Kothamangalam.
				352	Lakshimpuram.
				353	Manachi.
				354	Kottaiyur.
				355	Velangudi.
				356	Alagapuri.
				357	Kondanur.
				358	Puduvayal.
				359	Poovandipatti.
				360	Chokkanendal.
				361	Athangudi (Muthupattinam).
				362	Palavangudi.
				363	Siruvayal.
				364	Kunnakkudi.
				365	Nemnam.
				366	Sirukoodalpatti.
				367	Viramathi.
				368	Kilasevalpatti.
				369	Elayathangudi.
				370	Avinipatti.
				371	Keeranipatti.
				372	Pillayaripatti (village and temple).
				373	Kothari.
				374	Ayanarkoll.
				375	Valravanapatti.
	Kumbakonam ..	Tanjore	Kumbakonam	376	Kumbakonam.
				377	Darasuram.
				378	Sakkottai.
				379	Sundaraperumalkoll.
				380	Papanasam.
				381	Rajagiri.
				382	Pandaravadi.
				383	Iyyampettai.
				384	Tiruvadi.
				385	Royampet.
				386	Ganapathi Agraharam.
				387	Veeramangudi.
				388	Someswarapuram.
				389	Devangudi.
				390	Millathur.
				391	Tirukarangavanur.
				392	Mariamankoll.
				393	Poonchi.
				394	Tirupuvanam.
				395	Ammampet.
				396	Valanginam.
				397	Tippirajapuram.
				398	Nachlarkoll.
				399	Tiruvadamrudur.
				400	Tepperumannalur.
				401	Vepattur.
				402	Aduthurai.
				403	Marudanailur.
				404	Irbuthalai.
				405	Salamangalam.
				406	Kalanjeri.
				407	Ukkadai.
				408	Swamimalai.
				409	Tirunageswaram.
				410	Narasingampet.
				411	Thiruvaduthurai.
				412	Mattanyanthidal.
				413	Vallathoor.
				414	Madakudi.
				415	Tiruvasaloor.
				416	Ammachattaram.
				417	Kalyanapuram.
				418	Kandiyur.

APPENDIX H.2—*cont.*

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
19	Kumbakonam—cont.	Tanjore—cont.	Kumbakonam—cont.	419	Tiruppayanam.
				420	Tillalathanam.
				421	Echagudi.
				422	Tirucheral.
				423	Ingikollai.
				424	Chandrasekarapuram.
				425	Govindakudi.
				426	Avoor.
				427	Sathanoor.
				428	Karuppur.
				429	Tiruppanandal.*
				430	Sholapuram.*
				431	Nathoor.*
				432	Ennanallur.*
				433	Maruthuvakudi.*
				434	Ombathuvell.*
				435	Sankarampet.*
20	Karalkudi	Ramanathapuram ..	Tiruppattur	436	Karalkudi.
				437	Kovilur village.
				438	Managudi village.
				439	Nachlapuram village.
				440	Ariyakudi village.
				441	Amaravathipudur village.
				442	Zamindar Colony village (Devakkottai Road).
21	Karur	Tiruchirappalli ..	Karur	443	Karur.
22	Mangalore	South Kanara ..	....	444	Mangalore town.
23	Masulipatnam ..	Krishna ..	Bandar ..	445	Masulipatnam.
24	Nagapattinam ..	Tanjore ..	Nagapattinam ..	446	Nagapattinam town.
				447	Vellipalayam.
				448	Nagore.
				449	Andanaset.
				450	Puttur.
				451	Sikkil.
				452	Poravacheri.
				453	Kivalur.
				454	Papakoll.
				455	Velanganni.
				456	Karuvelangadai.
				457	Adipallam extension.
				458	Kurichi.
				459	Puliyur.
				460	Allyur.
				461	Manjakollai.
				462	Adiakamangalam.
				463	Kumarangudi.
				464	Odacheri.
				465	Sengamangalam.
				466	Thevur.
				467	Kurukathi.
				468	Kuthur.
				469	Radamangalam.
				470	Vadavoor.
				471	North Poyyur.*
				472	Athipuliyur.*
				473	Vangaramavadi.*
				474	Pattamangalam.*
25	Nattarasankottai ..	Ramanathapuram ..	Sivaganga	475	Nattarasankottai.
					Sivaganga.
26	Pollachi	Coimbatore ..	....	477	Pollachi.
					palayam village
					within municipa
					limits.
27	Palghat	Malabar	Palghat	478	Palghat.
28	Rajahmundry ..	East Godavari ..	....	479	Rajah mundry town.
				480	Dowlaiswaram village
29	Salem-Erode ..	Salem .. ..	....	481	Salem.
				482	Erode.
				483	Tiruchengode.
				484	Idappadi.
				485	Sankaridrug.
				486	Pallipalayam.
				487	Suramangalam.
				488	Kannamkurichi.
				489	Seelainalokenpatti.
				490	Mayanoor.
				491	Kuppanur.
				492	Alagapenam.
				493	Chinna Tirupathi.
				494	Periakottapatti.

APPENDIX H-2--cont.

List of villages and townships supplied by licensee undertakings as at the end of
1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
29	Salem-Erode—cont. ..	Salem—cont.	..	495	Alagapuram.
			....	496	Jagir Annmapalayam.
30	South Arcot ..	South Arcot	.. Villupuram	497	Villupuram.
				498	Valavanoor.
				499	Panayapuram.
				500	Radhapuram.
				501	Madurapakkam.
				502	Pansambattu.
				503	Kollanur.
				504	Narimedu.
				505	Siruvanthadu.
				506	Vaniyapalayam.
				507	Mambakkam.
				508	Mokshakulam.
				509	Panapet.
				510	Vikravandi.
				511	Malarajakuppam.
				512	Kannikoll.
				513	Pudari.
				514	Naridolai.
				515	Siruvallikuppam.
				516	Maharajapuram.
				517	Jaggampet.
				518	Annamalai-nagar.
				519	Nadar Mills.
				520	St. Xavier Mills.
				521	Venkadri Agaram.
			Tindivanam ..	522	Tindivanam.
				523	Kaveripakkam.
				524	Mylam.
				525	Batripullyur.
				526	Singanur.
				527	Gingee Road.
				528	A machar Koll.
				529	Agraharam.
				530	Kledayalam.
				531	Jagampet.
			Cuddalore ..	532	Cuddalore N.T.
				533	Cuddalore O.T.
				534	Panruti.
				535	Nellikuppam.
				536	Kondareddipalayam.
				537	Poongunam.
				538	Pudupet.
				539	Gavarapet.
				540	Kuchipalayam.
				541	Kozhipakkam.
				542	Panganadai.
				543	Melkunaramangalam.
				544	Sornavoor.
				545	Tirukandeswaram.
				546	Nathapet.
				547	Kondur.
				548	Malmarpet.
				549	Karamanikuppam.
				550	Melpattambakkam.
				551	Kongampet.
				552	Kandrakottai.
				553	Varkolpet.
				554	Rambakkam.
				555	Kanisapakkam.
				556	Malayameru.
				557	Bandarakottai.
				558	Valapet.
				559	Andikuppam.
				560	Kongarayanoor.
				561	Narayanapuram.
				562	Vishwanathapuram.
				563	Sholavalli.
				564	Vellapakkam.
				565	Pandaralkuppam.
				566	Iyyanarkoll.
				567	Kongampet.
				568	Nathapet II.
			Ohidambaram ..	569	Ohidambaram.
				570	Vallampadugai.
				571	Bhuvanagiri.
				572	Kesrapalayam.
				573	Thallampalayam.
				574	Thondireddipalayam.
				575	Pudupalayam.
				576	Tirupachanur.
				577	Chunapettai.
				578	Oraiyur.
				579	Pakkiripalayam.
				580	Edayanveli.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
31	Tirunelveli-Tuticorin.	Tirunelveli	Tirunelveli	581	Tirunelveli.
				582	Palayamkottai and Pettai.
				583	Melapalayam.
				584	Tachanallur.
				585	Chattram Pudukulam.
				586	Vallanad village.
				587	Perumalpuram colony.
			Thachanallur Arka	588	Karaiyiruppu village.
				589	Inam Thenirkulam village.
			Sriyalkuntam	590	Tuticorin.
				591	Vallanad.
				592	Mangalagiri.
32	Tiruchirappalli-Srirangam.	Tiruchirappalli	Kulltala	593	Kulltala town.
				594	Manaparai.
				595	Krishnarajapuram.
				596	Sithalaval.
				597	Mahadjanapuram.
				598	Marudur.
				599	Mayanoor.
				600	Mangavaram.
				601	Rajendram.
				602	Vaginalur.
				603	Manathattai.
				604	Mettupadugai.
				605	Lalapetta (Kallapalli).
				606	Timmachipuram.
				607	Hiranyamangalam.
				608	Nadupatti.
				609	Tiruchendurai.
				610	Pallivoor.
				611	Karupattur.
				612	Pillapalayam.
				613	Kammanalkonpalayam.
				614	Parali.
				615	Valayampatti.
				616	Pudupatti.*
				617	Outhampatti.*
				618	Nachalur.*
				619	Innungur.*
				620	Lalgudi.
				621	Manachanallur.
				622	Ayyanpalayam.
				623	Anzarai.
				624	Bikshandarkoll.
				625	Irungalur.
				626	Kallakudi.
				627	Dalmiapuram.
				628	Manakal.
				629	Kanyamanickam.
				630	Pudur Uthamanur.
				631	Pullambadi.
				632	Punampalayam.
				633	Puvalur town.
				634	Sengandi.
				635	Najai Sengandal.
				636	Sirudayur.
				637	Tirunellurai.
				638	Valadi.
				639	Samayapuram.
				640	Nochium.
				641	Pudukudi.
				642	Pachur.
				643	Salakadu.
				644	Keelapalayam.
				645	Kuthur.
				646	Kattur.
				647	Pinnavasal.
				648	Peruvalanallur.
				649	Vellanur.
				650	Natarajapuram.
				651	Kovindakurichi.
				652	Pachampettai.
				653	Tirumanamedu.
				654	Purathakudi.
				655	Mahalambedi.
				656	Mandurai.
				657	Kallagam.
				658	Narasingapalayam.
				659	Edayathimangalam.
				660	Velayudapuram.
				661	Nellikuppai.
				662	Edumalai.
				663	Vasudaiyur.
				664	Palayur.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
32	Tiruchirappalli-Srirangam—cont.	Tiruchirappalli—cont.	Lalgudi—cont.	665	Thattannur.
				666	Sempalani.
				667	Esavanikoral.*
				668	Thalakkudi.*
			Musiri	669	Kalavampatti.*
				670	Musiri town.
				671	Thottam town.
				672	Natham.
				673	Mettupadugai.
				674	Pudupatti.
				675	Pullivalam.
				676	Sillalpillaiarputhur.
				677	Murukkur.
				678	Kattuputtur.
				679	Mandarai.
				680	Sandapalayam.
				681	Tiruvengi Hills.
				682	Thoraiyur town.
				683	Perumalpalayam.
				684	Peranur.
				685	Singalandapuram.
				686	Karattampatti.
				687	Mahendramangalam.
				688	Kolakkudi.
				689	Appanallur.
				690	Sittilalai.
				691	Manickapuram.*
				692	Sengattupatti.*
				693	Nachiapudur.*
				694	Sriramasamudram.*
			Tiruchirappalli	695	Tiruchirappalli town, 8 wards.
				696	Srirangam town, 3 wards.
				697	Golden Rook (Ponmalai).
				698	Abishekapuram.
				699	Allur.
				700	Andanallur.
				701	Ammangudi.
				702	Iluppur.
				703	Kambarasampettai.
				704	Kalkandarkottai.
				705	Kottampattur.
				706	Melur.
				707	Mutharasanallur.
				708	Ariyamangalam.
				709	Pandamangalam.
				710	Pettaithalai.
				711	Sathanur.
				712	Sirugamani.
				713	Perugamani.
				714	Veraganeri.
				715	Tiruvarambur.
				716	Uyyakondanthirumalai.
				717	Tiruppalathurai.
				718	Kolathur.
				719	Mookanarmalaipettai.
				720	Sengulam.
				721	Palur.
				722	Kavalikarapalayam.
				723	Anali.
				724	Uttamarkudi.
				725	Manjethadai.
				726	Navalpatti.
				727	Arasangudi.
				728	Edamalaipattipudur.
				729	Tiruchendurai.
				730	Paluvur.
				731	Vudivadam.
				732	Somarasampettai.
				733	Nachikurichi.
				734	Edamalaipettai Pudur.
				735	Navalur.
				736	Kadipatti.
				737	Bommasamudram.
				738	Solaganallur.
				739	Talanji.
				740	Ariyalur town, 14 wards.
				741	Kilapaluvur.
				742	Keelayur.
				743	Tirukattupalli.
				744	Ombathuvai.
				745	Palmaneri.
				746	Thohur.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
32	Tiruchirappalli-Srirangam—cont.	Tiruchirappalli—cont.	Tanjore—cont.	747	Megalathur.
				748	Marneri.
				749	Kadambangudi.
				750	Miohaolpatti.
				751	Sengipatti.
				752	Budalur.*
			Pudukkottai (State)	753	Varalimalai.
				754	Annavaasal.
				755	Tiruvappur.
				756	Udampatti.
				757	Madianallur.
				758	Mathur.
				759	Seepathope.
				760	Ayyampatti.
				761	Alangudi.
33	Tirupati	Chittoor	Chandragiri	762	Tirupathi town.
				763	Chandragiri.
				764	Benigunta.
				765	Perumallapalle.
				766	Peroor.
				767	Pudipatia.
				768	Managapuram.
				769	Pudipet.
				770	Thondavada.
				771	Thirumalai.
				772	Golapalle.
				773	Muthalaredipalle.
				774	Alipiri.
				775	Tiruchanur.
				776	Kamapalle.
				777	Narasimhapuram.
				778	Gatigopuram.
				779	Akkarampalle.
				780	Avilala.
				781	Phungavaripalle.
				782	Ravillavaripalle.
				783	Boyal Cheruvu.
				784	Sankariahgaripalle.
				785	Thokivackam.
				786	Vedantapuram Agra-haram.
34	Tirupattur	North Arcot	Tirupattur	787	Tirupattur.
35	Tanjore	Tanjore	Tanjore	788	Tanjore and its sur-roundings.
36	Vellore	North Arcot	Vellore	789	Vellore town.
				790	Toralpadi.
				791	Sattuvacheri.
				792	Mullipalayam.
				793	Kaspa.
				794	Ramanajkenpalayam.
				795	Allavanam.
				796	Vadavellur.
				797	Sitheri.
				798	Kaya Vellore.
				799	Katpadi.
			Gudiyattam	800	Kangayanellore.
				801	Dharapadavedu.
				802	Viruthampet.
				803	Senguttai.
				804	Kilthampatral.
				805	Vandranthangal.
			Walajah	806	Walajah.
				807	Ranipet.
				808	Aroot.
				809	Visaharam.
				810	Vannivedu.
				811	Mottur.
				812	Manathangal.
				813	Pinji.
				814	Karai.
				815	Navalpoor.
				816	Gummatam.
				817	Ammanthangal.
				818	Kalpudur.
				819	Palavarathukuppam.
				820	Konnavattam.
				821	Katpadi Co-operative township colony.
				822	Cherri.
37	Visakhapatnam ..	Visakhapatnam ..	Visakhapatnam ..	823	Visakhapatnam.
				824	Waitair.
38	The Ponnamaravathi Electric Supply Corporation, Limited.	Tiruchirappalli ..	Tirumayam ..	825	Vendampatty.
				826	Ponnamaravathy.
				827	Velayapatty-Velampur.

APPENDIX H-2—cont.

List of villages and townships supplied by licensee undertakings as at the end of 1952-53—cont.

Serial number.	Name of licensee.	District.	Taluk.	Serial number.	Villages and townships.
38	The Ponnamaravathi Electric Supply Corporation, Limited—cont.	Tiruchirappalli—cont.	Tirumayam—cont.	828	Pudupatti.
				829	Verupatti.
				830	Kuppanapatti.
				831	Kulipalai.
				832	Pannayampatti.
				833	Viralchilai.
				834	Lakshimpuram.
				835	Nachandupatty.
				836	Rangiemr-Mithilal-patti.
				837	Kurivikkondampatty.
				838	Kottur.
				839	Thottampatti.
				840	Mekripatti.
				841	Yenavayal.
				842	Mulangudi.*
39	Sri Brahma Vidvambal Electric Supply Corporation, Limited.	Do.	Do.	843	Ramachandrapuram.
				844	Rayavaram.
				845	Konapet.
				846	Arimalam.
				847	P. Alagapuri.
				848	Tirumayam.
				849	K. Pallivasal.
				850	Meeyapuram.
				851	Hridayapuram.
				852	Umayalpuram.
				853	Sengarai.
				854	Kummangudi-patti.
40	Pudukkottai	Do.	Pudukkottai	855	Pudukkottai Town.
			Kolathur	856	Sathiamangalam.
41	Kanara Ceramic ..	South Kanara ..	Kasaragod	857	Kasaragod.
42	Madurai	Madurai	Madurai	858	Madurai Town.
				859	Sambandar Alangulam.
				860	Pichapillai Chavadi.
				861	Arrapalayam.
				862	Pudur.
				863	Sathamangalam.

NOTE.—* Denotes extension effected during the year 1952-53. The above details are as furnished by the concerned licensee.

APPENDIX I.

(1) PYKARA SYSTEM.

I. INSTALLED CAPACITIES OF TRANSFORMERS.

	Power-house.				Capacity in K.V.A.
	Numbers.	Voltage ratio.			
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
				Total ..	58,430
				Number.	K.V.A.
	2,000 K.V.A.	11/11-22 K.V.	..	3	6,000
	1,000 K.V.A.	11/11-22 K.V.	..	2	2,000
				Total ..	8,000

APPENDIX I—cont.

(1) PYKARA SYSTEM—cont.

II. LIST OF EXTRA HIGH TENSION SUB-STATIONS (66 K.V. AND 110 K.V.).

Power-house.							Capacity in K.V.A.
			Numbers.	Voltage ratio.			
1	Kattabettu	.. ..	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	Udamalpet	.. ..	3 × 1,750	Do.	.. ..	5,250	
5	Sembatti	.. ..	3 × 1,750	Do.	.. ..	5,250	
6	Kozhikode	.. ..	2 × 2,000	66/33-11 K.V.	.. ..	4,000	
7	Cannanore	.. ..	2 × 1,000	Do.	.. ..	2,000	
8	Shenbhagapudur	.. ..	1 × 500	66/11 K.V.	.. ..	500	
9	Uppatti	.. ..	2 × 500	66-33/11 K.V.	.. ..	1,000	
10	Kuthumunda	.. ..	2 × 500	Do.	.. ..	1,000	
Total						84,250	

III. LIST OF HIGH TENSION TRANSFORMER STATIONS.

				Numbers.
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.

861 Numbers.

53,500 K.V.A.

NOTE.—The Transformers in the Power-houses are in charge of Superintending Engineer (Generation), Hydro areas.

(2) MOYAR STATION.

	Power-house.		Capacity in K.V.A.
	Numbers.	Voltage ratio.	
1 Moyar Power-house	2 × 15,000 K.V.A.	11/110 K.V. ..	30,000

(3) METTUR SYSTEM.

I. INSTALLED CAPACITIES OF TRANSFORMERS.

Name of station.	Numbers.	Voltage ratio. K.V.	Capacity in K.V.A.	Aggregate capacity in K.V.A.
1 Power-house	3	11/66-110	12,500	37,500
	3	11/11-22	2,000	6,000
Total				43,500

APPENDIX I—cont.

(3) METTUR SYSTEM—cont.

II. EXTRA HIGH TENSION POWER TRANSFORMER STATIONS (66 K.V. AND 110 K.V.).

Name of station.	Numbers.	Voltage ratio. K.V.	Capacity in K.V.A.	Aggregate capacity in K.V.A.
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
	1	66/23-11	2,000	2,000
	1	Do.	2,500	2,500
4 Dalmiapuram	2	Do.	2,500	5,000
5 Tanjore	2	66/33-11	750	1,500
6 Tiruvarur	2	66/11	2,500	5,000
7 Nagapattinam	2	Do.	2,500	5,000
8 Salem	2	66/22-11	2,500	5,000
9 Singarappet	2	66/33-11	500	1,000
10 Tirupattur	4	Do.	500	2,000
11 Ambur	3	Do.	500	1,500
12 Vadakathipatti	2	Do.	1,250	2,500
13 Vellore	1	66/33-22	1,250	1,250
	2	66/33-11	1,250	2,500
	1	Do.	750	750
14 Tiruvannamalai	2	Do.	1,000	2,000
	1	Do.	750	750
	2	Do.	250	500
15 Vettavalam	2	Do.	250	500
16 Villupuram	4	66/33-22	1,750	7,000
	1	66/22-11	1,250	1,250
17 Kumbakonam	3	Do.	1,250	2,500
18 Mayuram	2	66/33-11	750	1,500
	1	Do.	500	500
Total				66,250

III. HIGH TENSION POWER STATIONS.

1 Karimangalam	2	33/11	500	1,000
2 Chittoor	2	Do.	500	1,000
3 Pakala	2	Do.	500	1,500
4 Ranipet	2	Do.	500	1,000
5 Kaveripauk	2	Do.	500	1,000
6 Arkonam	4	Do.	500	2,000
7 Polur	2	Do.	250	500
8 Arni	3	66-33/22-11 (connect- ed as 33/11).	500	1,500
9 Kuppam	3	33/11	250	750
10 Chidambaram	2	Do.	500	1,000
Total				11,250

IV. DISTRIBUTION TRANSFORMERS.

674 Numbers.

41,225 K.V.A.

NOTE.—Erode Sub-station has been handed over to Superintending Engineer (Generation), Erode.
Transformers in Mettur Power-house are in charge of Superintending Engineer (Generation) (Hydro System).

APPENDIX I—cont.

(4) PAPANASAM SYSTEM.

Sub-station.	Numbers.	Transformers voltage ratio.	Capacity in K.V.A.	Aggregate capacity in K.V.A.
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I. INSTALLED CAPACITIES OF TRANSFORMERS.

Power-house.

1 Papanasam Power-house	4	11/66 K.V.	7,250	29,000
	2	11/11-22 K.V.	2,000	4,000
		Total	33,000	

II. EXTRA HIGH TENSION TRANSFORMER STATIONS (66 K.V.).

1 Tuticorin	3	66/22-11 K.V.	1,250	3,750
2 Kayattar	2	66-33/22-11 K.V.	2,000	4,000
3 Koilpatti	3	66/33-11 K.V.	1,000	3,000
4 Sattur	2	66/11 K.V.	250	500
5 Virudunagar	3	66/33-11 K.V. (one spare).	2,000	6,000
6 Pasumalai	4	66/22-11 K.V. (one spare).	3,000	12,000
	2	33/11 K.V.	5,000	10,000
7 Tenkasi	2	66/33 11 K.V.	500	1,000
	1	Do.	250	250
		Total	40,500	

III. HIGH TENSION TRANSFORMER STATIONS.

1 Gurnurthinaickenpatti	3	33/11 K.V.	250	750
2 Rajapalayam	2	Do.	500	1,000
	1	66-33/22-11 K.V. (connected as 33/11 K.V.)	500	500
3 Sivaganga	3	22/11-33 K.V.	250	750
4 Okkur	1	Do.	125	125
5 Samayanallur Power-house	1	66/33 K.V.	5,000	5,000
	1	11/33 K.V.	12,500	12,500
		Total	20,625	

IV. DISTRIBUTION TRANSFORMERS.

299 Numbers.

16,330 K.V.A.

NOTE.—The transformers in the Papanasam Power-house and Samayanallur Power-house are in charge of Superintending Engineer (Generation), Erode.

(5) MADRAS SYSTEM.

I. EXTRA HIGH TENSION TRANSFORMER POWER STATIONS (66 K.V. AND 110 K.V.).

Station.	Number.	Voltage ratio.	Capacity in K.V.A.	Aggregate capacity in K.V.A.
1 Kancheepuram	2	33/66 K.V.	4,000	8,000
2 Korattur	2	Do.	7,500	15,000
		Total	23,000	

APPENDIX I—cont.

(5) MADRAS SYSTEM—cont.

II. HIGH TENSION TRANSFORMER STATIONS (33 K.V. AND 22 K.V.).

Station.	Number.	Voltage ratio.	Capacity in K.V.A.	Aggregate capacity in K.V.A.
1 Basin Bridge	2	5/11/33 K.V.	7,500	15,000
a) Step-up station—				
1 Kilpauk	2	5/33 K.V.	1,000	2,000
b) Step-down stations—				
1 Korattur	1	33/11 K.V.	5,000	5,000
	1	Do.	500	500
2 Kadambathur	2	Do.	500	1,000
3 Kancheepuram	3	33/11 K.V.	500	2,250
	1	33/11/66 K.V.	250	
	2	33/66 K.V.	250	
	1	Do.	250	
		(Unconnected spare).		
4 Nazarethpet	1	33/11 K.V.	1,500	1,500
	1	Do.	500	500
	1	Do.	100	100
5 Porur	1	Do.	500	500
6 Chromepet	1	Do.	500	500
	1	Do.	250	250
7 Tambaram	1	Do.	500	500
	1	33/5 K.V.	100	100
8 Pallavaram	2	Do.	200	400
		(Unconnected spare).	200	
9 Meenambakkam	1	33/5 K.V.	100	100
		(Unconnected spare).	100	
10 Kodambakkam	1	33/11 K.V.	500	500
	1	Do.	200	200
11 St. Thomas' Mount	2	33/5 K.V.	300	600
12 Sembiam	1	33/11 K.V.	1,500	1,500
		Total	33,000	

I.D.O. SUB-STATIONS.

K.W.

Installed capacity in K.W.

a) Rectifier sub-stations—				
1 Bells Road	3	3 × 250	750	
2 China Bazaar	3	3 × 250	750	
3 Egmore	2	2 × 250	500	
4 Moore Market	3	3 × 250	750	
5 Nungambakkam	2	2 × 250	500	
6 Westcott Road	3	3 × 250	750	
		Total	4,000	

(b) Rotary sub-stations—

1 Chetput	3	3 × 250	750	
2 Egmore	4	4 × 500	2,000	
	2	2 × 250	500	
3 East Georgetown	2	2 × 1,000	2,000	
	2	2 × 500	1,000	
	1	1 × 250	250	
4 Mount Road	1	1 × 1,000	1,000	
	3	3 × 500	1,500	
	2	2 × 250	500	
5 Mylapore	4	4 × 250	1,000	
6 West Georgetown	2	2 × 1,000	2,000	
	1	1 × 500	500	
	2	2 × 250	500	
		Total	13,500	

APPENDIX I—cont.

(5) MADRAS SYSTEM—cont.

III. DISTRIBUTION TRANSFORMERS.

Numbers.	Capacity in K.V.A.
(a) 33 K.V./400 V sub-stations—	
1 Balichetty chatram 1 1 × 25	25
2 Damal I 1 1 × 75	75
3 Damal II 1 1 × 75	75
4 Kalambi 1 1 × 75	75
5 Poonamallee 1 1 × 200	200
6 Virugambakkam 1 1 × 100	100
Total ..	550
Stations.	Numbers K.W. Capacity in K.V.A.
(b) 11 K.V./400 V sub-station—	
Attended sub-station 13	900
(c) 6.3 K.V./400 V sub-station—	
Attended sub-station 2	40
(d) 5 K.V./400 V sub-station—	
1 Attended sub-stations 15	3,850
2 Unattended and Kiosk sub-stations 19	3,345
3 Pole-mounted sub-stations 199	16,082
Total ..	23,277
Grand total, distribution transformers ..	24,767

(6) ANDHRA SYSTEM.

I. INSTALLED CAPACITIES OF TRANSFORMERS.

Power-house.

Name of stations.	Numbers.	Voltage ratio.	K.V.A.	Aggregate capacity in K.V.A.
1 Vijayavada	2	33/33 K.V./11 K.V. ..	3,000	6,000
	2	3.3/33/11 K.V. ..	1,500	3,000
	1	3.3 K.V./11 K.V. ..	1,500	1,500
	2	3.3/400 V ..	750	1,500
	1	11 K.V. 400/V ..	250	250
	4	400 V/11 K.V. ..	250	1,000
	1	400 V/11 K.V. ..	25	25
Total ..				13,275
Visakhapatnam	1	3.3/11-33 K.V. ..	750	750
	2	Do. ..	750	1,500
	3	Do. ..	1,500	4,500
	3	3.3/K.V. 400 V. ..	150	450
	1	11 K.V./400 V. ..	50	50
Total ..				7,250
3 Ongole	1	400 V/11 K.V. ..	50	150

APPENDIX I—cont.

(6) ANDHRA SYSTEM—cont.

II. HIGH TENSION POWER TRANSFORMER STATIONS (33 K.V.).

Vijayavada.

Name of stations.	Numbers.	Voltage ratio.	Capacity in K.V.A.	Aggregate capacity in K.V.A.
1 Tenali sub-station	2	33/11 K.V. ..	500	1,000
2 Guntur sub-station	2	Do. ..	1,500	3,000
	1	Do. ..	500	500
3 K.C. Company	2	3.3/11/33 K.V. ..	750	1,500
4 Nuzvid	2	33/11 K.V. ..	500	1,000
5 Eluru	2	Do. ..	500	1,000
6 Gudivada	2	Do. ..	500	1,000
	1	Do. ..	250	250
7 Masulipatnam	2	Do. ..	100	200
	1	Do. ..	250	250
	2	33/11/6.6 K.V. ..	250	500
8 Nidadavolu	2	33/11 K.V. ..	500	1,000
9 Bhimadole	2	Do. ..	500	1,000
Total ..				12,200

Visakhapatnam.

1 Chittivalasa	2	33/11 K.V. ..	1,500	3,000
	1	Do. ..	500	500
2 Vizianagaram	3	Do. ..	500	1,500
3 Penubarthi	1	Do. ..	250	250
	3	Do. ..	100	300
4 Nellimarla	2	Do. ..	500	1,000
5 Bobbili	2	Do. ..	500	1,000
Total ..				7,550

Kakinada-Rajahmundry.

1 Bommuru sub-station	2	33/11 K.V. ..	500	1,000
2 Samalkot	2	Do. ..	500	1,000
3 Biccavolu	1	Do. ..	250	250
4 Kakinada	2	Do. ..	500	1,000
Total ..				3,250

III. DISTRIBUTION TRANSFORMERS.

Names of stations.	Numbers.	Aggregate capacity in K.V.A.
1 Vijayavada	166	9,527.5
2 Visakhapatnam	50	3,295
3 Narasaraopet	2	125
	2	150
Total ..	220	13,097.5

APPENDIX I—cont.

(7) RAYALASEEMA POWER SYSTEM.

I. INSTALLED CAPACITIES OF TRANSFORMERS.

Power-house.

Name of station.	Number.	Voltage ratio.	Capacity in K.V.A.	Aggregate capacity in K.V.A.
1 Nellore	2	3.3-6.6/11-33 K.V. ..	3,000	6,000
	1	Do. ..	1,500	1,500
2 Kurnool	1	400 V/3.3 K.V. ..	200	700
	2	400 V/3.3-11 K.V. ..	250	
3 Cuddapah	2	400 V/11 K.V. ..	250	500
4 Anantapur	1	Do. ..	250	250
5 Tadpatri	2	Do. ..	250	500
6 Nandyal	2	Do. ..	250	500
7 Proddatur	1	400 V/3.3 K.V. ..	50	50
Total ..				10,000

II. EXTRA HIGH TENSION TRANSFORMER STATIONS (66 K.V. AND 110 K.V.).

Ceded Districts.

1 Kudligi	1	66/11 K.V. ..	500	500
	1	66-33/22-11 K.V. ..	250	250
2 Tungabhadra dam	2	66/33-11 K.V. ..	1,000	2,000
3 Bellary	3	Do. ..	1,000	3,000
4 Guntakal	1	66-33/22-11 K.V. ..	500	500
	1	Do. ..	250	250
Total ..				6,500

III. HIGH TENSION POWER TRANSFORMER STATIONS (33 K.V. AND 22 K.V.).

1 Alur	2	33/11 K.V. ..	100	200
2 Adoni	3	Do. ..	500	1,500
3 Haleharvi	1	Do. ..	100	100
4 Hindupur	2	Do. ..	250	500
5 Gudur	2	Do. ..	1,500	3,000
6 Emmiganur	1	Do. ..	500	500
Total ..				5,800

IV. DISTRIBUTION TRANSFORMERS.

	Total number of Distribution Transformers.	Aggregate capacity in K.V.A.
1 Ceded Districts Scheme	67	5,605
2 Hindupur Scheme	10	1,075
3 Nellore Scheme	23	2,575
4 Anantapur Scheme	6	440
5 Proddatur Scheme	5	270
6 Nandyal Scheme	5	425
7 Tadpatri Scheme	3	200
8 Cuddapah Scheme	12	675
9 Kurnool Scheme	7	600
Total ..	138	11,865

APPENDIX J—CONSOLIDATED BALANCE SHEET AS ON
31ST MARCH 1952.

APPENDIX J.

Consolidated balance sheet as on 31st March 1952.

Assets and other debits.									
(1)	Pykara system.		Mettur system.		Papanasam system.		Total H.E. systems.		Grand Total.
	(2)	RS.	(3)	RS.	(4)	RS.	(5)	RS.	(9)
Utility Plant.									
1. Electric Plant at cost—									
(i) Generation Plant	1,38,92,630		91,46,534		2,33,77,197		4,64,16,411		7,54,58,142
(ii) Transmission	1,31,90,580		67,58,530		72,45,833		2,71,94,943		3,70,30,783
(iii) Distribution	2,46,01,424		1,79,08,113		85,31,640		5,10,41,877		8,75,48,111
(iv) Miscellaneous equipments	3,39,580		57,26,478		6,79,996		67,40,054		67,91,746
2. Electric Plant Adjustments	25,95,668		23,10,374		26,07,450		75,16,192		1,00,43,974
3. Common Electric Plant—Tools and Plant	..		..		9,84,832		9,84,832		10,84,929
4. Common Electric Plant adjustments	..		..		..		..		..
Total, Utility Plant in service	5,46,22,892		4,18,50,779		4,34,06,948		13,98,80,609		21,79,57,685
Investment Fund Accounts.									
5. Other physical property	..		6,03,880		..		6,03,880		6,03,880
6. Investments—									
(a) Depreciation Reserve Fund	1,10,25,550		74,50,622		22,99,825		2,07,75,997		2,65,70,854
(b) Special Reserve Fund	44,59,838		27,83,666		9,22,742		81,66,296		89,96,043
7. Investments with Accountant-General—									
(a) Pension Contributions	8,50,993		3,53,691		2,85,396		14,90,080		17,74,213
(b) General Provident Fund Contributions	1,48,696		1,54,180		29,920		3,32,696		3,32,696
8. Investments with Government	..		..		..		..		..
9. (a) Investments in P.O.Cs. and N.S.Cs., etc., by subordinates.	45,000		40,500		20,970		1,06,470		1,36,170
(b) Investments in securities	10,04,930		5,11,795		4,62,785		19,79,510		22,300
(c) Investments in P.O.Cs. and N.S.Cs.	..		..		..		..		..
Total Investments and Fund Accounts	1,75,34,957		1,18,98,334		40,26,438		3,34,59,729		4,16,87,386
Fidelity Bonds held, G.P. Notes, etc.	2,37,698		..		30,000		2,67,698		4,04,598
Carried over	7,23,95,537		5,37,49,113		4,74,83,386		17,36,08,036		26,00,49,669

Liabilities and other credits.

(1)	Pykara system.		Mettur system.		Papanasam system.		Total H.E. systems.		Madras system.		Andhra Power system.		Total Thermal systems.		Grand Total.	
	(2)	RS.	(3)	RS.	(4)	RS.	(5)	RS.	(6)	RS.	(7)	RS.	(8)	RS.	(9)	RS.
Capital and Borrowings.																
1. Subventions by Government	7,34,75,748		4,41,94,990		4,52,58,774		16,29,29,512		5,00,29,579		11,93,57,433		16,93,87,012		33,23,16,524	
Securities/purchases	1,54,85,438		1,02,34,288		32,22,567		2,89,41,293		59,41,266		6,83,338		66,24,604		3,55,66,897	
Total, Capital	8,89,61,186		5,44,29,278		4,84,81,341		19,18,71,805		5,59,70,845		12,00,40,771		17,60,11,616		36,78,83,421	
Long-term Obligations.																
Consumer's Deposits—																
(i) In P.O.Cs. and N.S.Cs., etc.	10,04,930		4,82,595		4,64,355		19,51,880		9,68,355		4,47,065		14,15,420		33,67,300	
(ii) Securities	..		..		4,800		4,800		17,500		..		17,500		22,300	
(iii) Cash	68,196		20,350		77,944		1,66,490		6,88,223		..		6,88,223		8,54,713	
(iv) In Government Promissory notes	2,37,693		29,200		30,000		2,96,898		14,500		..		14,500		3,11,398	
(v) Employers securities	45,000		40,500		19,400		1,04,900		8,400		..		8,400		1,13,300	
Deposits (contractors)	5,637		18,129		93,916		1,17,682		66,604		24,246		90,850		2,08,532	
Other long-term deposits	10,77,246		8,29,990		2,40,565		21,47,821		20		7,78,428		7,78,448		29,26,269	
Notes payable	..		..		..		..		..		..		..		..	
Accounts payable—																
(i) Contractors	76,784		14,590		..		91,374		12,21,145		..		12,21,145		13,12,519	
(ii) Suppliers	18,28,547		11,34,329		23,77,658		53,40,544		23,80,057		75,30,631		99,10,688		1,52,51,232	
London Stores	2,26,048		1,05,676		2,94,718		6,26,442		..		..		..		6,26,442	
Consumer's Deposits for service connections	4,99,656		3,51,220		1,9,727		10,50,603		3,35,026		5,20,164		8,55,190		19,05,793	
Taxes assessed	..		..		..		..		..		..		..		..	
Interest accrued	..		..		3,406		3,406		..		..		..		88,309	
Advances for contributions (D.C.W.)	13,984		..		6,860		20,974		3,523		15,193		18,716		39,690	
Other credits and accrued credits	..		..		..		..		5,54,547		1,81,565		7,36,112		7,36,112	
Salaries and wages due	3,46,232		1,25,917		1,33,912		6,06,061		2,06,176		8,506		2,14,682		8,20,743	
Total	9,43,91,144		5,75,31,904		5,24,28,632		20,44,01,680		6,25,23,230		12,95,46,569		19,20,69,779		39,84,71,479	

APPENDIX J—cont.

Consolidated balance sheet as on 31st March 1952—cont.

(1)	Assets and other debits									
	Pykara system.	Mettur system.	Papanasam system.	Total H.E. system.	Madras system.	Andhra power system.	Total Thermal systems.	Grand Total.		
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	RS.	RS.
Cash	9,797	336	100	10,233	10,067	..	10,067	20,300	..	..
Working Funds—										
(i) Petty Cash	23,601	20,955	9,196	53,752	5,226	25,159	30,385	84,137	..	..
(ii) Temporary Advances	26,322	15,434	12,077	53,833	1,722	..	1,722	55,555	..	..
Cheques, Demand drafts, Note receivable	..	..	..	..	41,489	3,87,308	4,28,797	4,28,797	..	..
Temporary Advances—										
Advances Recoverable and Other Advances	..	234	..	234	..	..	..	..	..	234
Accounts Receivable.										
Sale of Power	5,38,749	7,55,476	2,74,193	15,68,418	14,21,037	11,94,651	26,15,688	41,81,036	..	..
War Costs Surcharge	..	..	..	..	..	..	..	..	..	..
Miscellaneous Revenue	9,15,579	7,03,557	4,60,508	20,78,642	12,07,036	6,39,696	18,46,732	39,25,374	..	..
Accrued Utility Revenue	89,33,634	85,83,581	66,83,791	2,41,78,006	85,12,475	1,25,25,945	2,10,38,430	4,52,16,426	..	..
Materials and Supplies	..	1,62,625	..	1,62,625	..	..	..	1,62,625	..	..
Pre-payments	..	..	..	..	..	..	..	..	..	..
London Stores	28,04,615	21,70,508	3,73,582	53,48,703	13,34,957	67,51,468	80,76,425	1,34,25,128	..	..
Other Current and Accrued Assets	10,06,138	9,93,966	5,94,155	25,94,539	3,43,421	99,29,921	1,02,73,342	1,28,67,601	..	..
Miscellaneous items of Revenue	96,457	..	..	96,457	58,994	..	58,994	1,55,451	..	..
Total, Current and Accrued Assets	1,43,64,892	1,34,07,670	83,82,530	3,61,45,092	1,29,26,424	3,14,54,148	4,43,80,572	8,05,25,664	..	..

Deferred Debits.

Retirement Work in Progress (Service connection paid by consumers)	5,55,026	..	2,38,202	7,93,228	9,99,225	3,97,786	13,67,011	21,60,239	..	..
Other Works in Progress (Service connections)	6,23,519	..	3,67,868	9,91,387	4,00,918	8,57,185	12,58,103	22,49,490	..	..
Other Works	1,997	..	..	1,997	..	..	..	1,997	..	..
Projects under Construction	4,36,47,930	1,49,20,152	33,96,478	6,69,04,560	1,49,38,580	4,94,0,166	6,44,68,746	13,14,33,306	..	..
Other Deferred Accounts (interest and audit fees)	53,46,488	5,20,674	2,11,873	60,79,035	4,86,128	38,02,623	42,88,751	1,03,67,786	..	..
Grand Total	14,19,25,389	8,25,97,609	6,00,60,337	28,45,83,335	7,48,74,340	12,73,29,976	20,22,04,816	48,67,88,151	..	..

APPENDICES

(1)	Reserve for									
	Pykara.	Mettur.	Papanasam.	Total H.E. systems.	Madras.	Andhra power systems.	Total Thermal systems.	Grand Total.		
	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	RS.	RS.
(i) Depreciation	1,10,61,167	74,67,762	24,18,371	2,03,47,300	52,54,125	9,21,271	61,75,396	2,71,22,696	..	..
(ii) Extraordinary cases	..	..	..	..	..	..	..	..	..	..
(iii) Establiation of Assets	44,99,981	28,16,981	9,54,130	82,71,095	8,27,255	1,48,742	9,75,997	92,47,022	..	..
(iv) Development	..	..	..	..	..	..	..	..	..	..
(v) Amortization of Electric Plant Adjustment	..	..	..	..	..	..	..	..	..	..
(vi) Uncollective Bills	..	..	..	..	..	..	..	..	..	..
(vii) Insurance	..	..	..	..	..	..	..	..	..	..
(viii) Injuries and Damages	..	..	..	..	..	..	..	..	..	..
(ix) Employees' Provident Fund	..	..	..	..	..	..	..	..	..	..
(x) Leave salaries	1,48,596	1,64,180	29,920	3,32,696	2,84,133	..	2,84,133	6,16,829	..	..
(xi) Other reserves	..	..	..	..	..	..	..	..	..	..
(xii) Reserve for Tools and Plant	..	..	..	..	..	..	..	..	..	..
Pension payable	2,37,054	..	..	2,37,054	1,27,948	..	1,27,948	3,65,002	..	..
.. .. .	8,50,993	3,53,691	2,85,396	14,90,080	..	..	..	14,90,080	..	..
Total Reserves	1,67,97,791	1,07,92,617	36,87,317	3,12,78,225	64,93,461	10,70,013	75,63,474	3,88,41,699	..	..
Service connections paid for by consumers	5,55,026	..	2,38,202	7,93,228	9,99,225	3,97,786	13,67,011	21,60,239	..	..
Earned Surplus	3,01,81,428	1,42,23,088	37,03,686	4,81,10,202	48,88,924	36,84,392	12,94,532	4,93,14,734	..	..
Grand Total	14,19,25,389	8,25,97,609	6,00,60,337	28,45,83,335	7,48,74,340	12,73,29,976	20,22,04,816	48,67,88,151	..	..

APPENDIX J—cont.

Income and Expense Accounts, 1951-52.

Operating revenues.										
(1)	Pylara.			Metrur.			Papanasan.			Total, H.E. system. (11) RS.
	Number of services. (2)	Consump- tion in lakhs. (3) RS.	Amount. (4) RS.	Number of services. (5)	Consump- tion in lakhs. (6) RS.	Amount. (7) RS.	Number of services. (8)	Consump- tion in lakhs. (9) RS.	Amount. (10) RS.	
Licenses	4	156-15	4,67,966	20	1608	37,85,661	6	327-0	9,09,046	51,62,673
H.T. Industrial	..	..	..	..	210	5,00,910	25	313-6	8,92,104	13,93,014
L.T. Industrial	723	1,187-37	36,55,262	802	82	5,16,776	461	37-9	2,32,626	44,04,664
Agricultural	7,460	304-32	16,34,408	4,403	167	9,45,599	1,492	26-3	1,53,578	27,33,585
Domestic	17,247	32-28	6,69,401	16,836	32	7,61,955	19,494	30-3	6,94,640	21,26,496
Commercial	2,250	5-21	78,385	3,318	2	58,741				
Municipal	3	130-37	3,90,351	4	57	1,92,254	1	142-2	3,87,418	9,70,023
Street lighting	46	3-87	61,945	131	6	1,16,029	66	5-6	96,400	2,82,374
Railways	8	3-16	24,223	11	68	2,19,986	..	..	..	2,44,209
Government Departments	13	64-91	2,06,787	1	7	38,816	..	..	..	2,45,603
Miscellaneous Departments and Sales.	2	449-44	6,25,314	33	2	19,923	..	333-2	3,91,779	10,37,016
Water Works.. .. .	2	3-22	15,597	4	3	11,178	1	2-0	6,727	33,502
Undertakings	15,894	31-07	12,46,699	1,258	16	2,02,499	8,319	38-6	4,99,598	19,48,796
Surcharge—										
War Cost	..	..	7,40,193	..	..	6,66,510	..	..	3,37,320	17,44,023
Industrial	..	..	(—) 5	..	..	..	..	..	..	(—) 5
Hydro-Electric	..	..	7,64,919	..	..	9,95,443	..	..	5,85,143	23,45,505
Fuel	..	..	..	..	..	..	..	..	..	..
Annual Minimum	..	..	2,52,685	..	..	1,39,292	..	..	70,217	4,62,194
Special Charges	..	..	..	..	..	..	..	..	..	..
Carried over	43,652	2,421-37	1,08,42,530	26,832	2,260	91,71,572	29,865	1,256-7	52,56,596	2,52,70,696

Operating revenue—cont.

	Madras.			Andhra.			Total Thermal systems.	Grand Total.
	Number of services.	Consumption in lakhs.	Amount.	Number of services.	Consumption in lakhs.	Amount.		
			RS.		RS.		RS.	RS.
Licenses ..	..	..	..	10	146.80	6,14,391	6,14,391	57,77,064
H.T. Industrial ..	..	..	..	881	131.74	6,89,876	16,78,314	30,71,328
L.T. Industrial ..	2,505	68.76	5,95,551	..	82.63	3,46,554	9,42,105	53,46,769
Agricultural ..	490	31.07	3,16,701	827	18.15	1,15,677	4,26,378	31,59,963
Domestic ..	30,397	220.92	38,84,244	17,677	33.60	10,15,246	48,99,490	70,25,986
Commercial ..	5,564	211.92	26,12,547	1,408	6.16	26,114	26,38,661	27,75,687
Municipal ..	1	2.81	8,945	5	65.92	3,32,711	3,41,656	13,11,679
Street lighting ..	20	29.63	1,68,199	43	6.66	1,22,831	2,91,030	5,73,404
Railways ..	3	187.18	6,43,647	..	..	..	6,43,647	8,87,856
Government Departments ..	..	..	..	30	60.89	2,16,089	17,24,976	19,70,579
Miscellaneous Deposits and Sales ..	..	..	..	..	..	4,266	1,73,925	12,10,941
Water Works ..	537	15.50	1,69,659	..	..	..	..	33,502
Undertakings ..	..	..	..	3,690	39.02	9,75,857	12,16,222	31,65,018
.								
Surcharges—								
War Cost ..	..	..	8,04,741	..	..	2,80,670	10,85,411	28,29,134
Industrial ..	..	..	1,90,984	..	..	..	1,90,984	1,90,979
Hydro-Electric ..	..	..	..	..	..	79,174	79,174	24,24,679
Fuel ..	..	..	13,38,163	..	..	10,99,419	24,37,572	24,37,572
Annual Minimum ..	..	..	..	..	..	71,814	71,814	5,34,008
Special Charges ..	..	..	..	..	..	..	..	..
Carried over ..	44,848	1,203.87	1,34,65,061	24,571	591.57	59,90,689	1,94,55,750	4,47,26,448

APPENDICES

APPENDIX J—cont.

Income and Expense Accounts, 1951-52—cont.

	Operating revenue.					Andhra.	Total Thermal Scheme.	Grand total.
	Pykara.	Mettur.	Papanasam.	Hydro-Electric System.	Madras.			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward ..	1,08,42,530	97,71,572	52,56,596	2,52,70,698	1,34,65,061	59,90,629	1,94,55,750	4,47,26,448
Other Income—								
Income from Merchandising, jobbing and Commercial works.	22,772	3,68,014	47,729	4,38,615	..	1,54,757	1,54,757	5,93,272
Income from rents and non-utility operation.	14,010	62,923	84,557	1,61,490	2,569	12,139	14,708	1,76,198
Revenue from hire and lease	6,102	1,502	202	7,806	3,296	8,902	12,198	20,004
Interest from investments	4,27,942	2,62,912	83,703	7,77,557	1,12,425	32,404	1,44,829	9,22,386
Miscellaneous revenue	3,80,780	2,67,688	48,803	6,97,271	4,47,735	86,430	5,34,165	12,31,436
Net Deficit	..	..	..	..	..	10,92,029	10,92,029	10,92,029
Total ..	1,16,94,136	1,01,34,611	55,24,590	2,73,53,337	1,40,31,086	73,77,350	2,14,08,436	4,87,61,773

APPENDICES

APPENDIX J—cont.

Balance Sheet.

NOTE TO BE APPENDED AS A FOOT-NOTE.

The following schemes under construction are excluded from the utility capital and shown as Projects under construction :—

Systems.	Schemes.	Direct outlay. RS.	Indirect outlay. RS.
Pykara System—			
(1)	Moyar Hydro-Electric Scheme	3,07,66,540	38,04,375
(2)	Pykara III Stage	1,74,96,372	15,29,550
(3)	Pykara-Coimbatore 110 KV. Line	1,18,219	3,548
(4)	South Kanara Extension Scheme	74,699	2,743
(5)	66 KV. Extension to Pollachi	1,92,100	6,274
	Total ..	4,86,47,930	53,46,488
Mettur System—			
(1)	Madras-Mettur Inter-connection Scheme.	71,17,108	2,70,437
(2)	Erode-Salem Extensions	20,08,157	62,159
(3)	Erode-Tiruchirappalli-Dalmiapuram Exn.	37,19,483	1,20,770
(4)	Tanjore-Mayuram-Chidambaram Extension	20,75,104	67,308
	Total ..	1,49,20,152	5,20,674
Papanasam System—			
(1)	Papanasam-Kayattar Lines	11,94,667	93,590
(2)	Madura-Sivaganga Line	3,22,748	18,764
(3)	Madura-Tirumangalam-Rajapalayam Tenkasi Lines	18,79,063	99,519
	Total ..	33,96,478	2,11,873
Madras System—			
	Madras 'B' Station	1,49,88,580	4,86,128
Andhra System—			
(1)	Maachkund Scheme	3,29,39,229	29,43,944
(2)	Tungabhadra	5,35,466	20,730
(3)	Vijayavada-Rajahmundry-Samalkot Extensions	1,48,46,649	7,87,899
(4)	Nandyal Scheme	5,64,130	24,149
(5)	Tadpatri Scheme	5,55,527	24,709
(6)	Madanapalle Scheme	19,025	535
(7)	Hospet Scheme	20,140	657
	Total ..	4,94,80,166	38,02,623

APPENDIX J—cont.

Schemewar details of utility capital in respect of Andhra and Rayalaseema Power System to end of 1951-52.

Schemes. (1)	Generation. (2)	Transmission. (3)	Distribution. (4)	Total. (5)
Andhra Power System.				
	RS.	RS.	RS.	RS.
1 Kakinada	14,30,375	..	5,58,584	19,88,959
2 (a) Visakhapatnam	25,92,663	5,96,646	21,80,527	53,69,736
(b) Visakhapatnam P.H. Exs.	25,58,284	..	..	25,58,284
3 Rajahmundry	7,84,809	..	2,80,823	10,65,632
4 Ongole	1,78,139	..	83,908	2,62,047
5 Narasaraopet	1,23,400	..	74,615	1,98,015
6 Srikakulam	1,03,986	..	..	1,03,986
7 Narsannapet	18,149	..	18,530	36,679
8 Salur-Parvatipur	8,757	..	5,02,648	5,11,405
9 Dendalur Firka	..	..	21,02,837	21,02,837
10 West Godavari	..	..	30,97,007	30,97,007
11 Vijayavada	32,42,221	10,02,045	73,41,273	1,15,85,540
Total	1,10,40,803	15,98,591	83,98,879	2,10,38,273
Rayalaseema Power System.				
1 Anantapur	5,14,250	..	60,110	5,74,360
2 Cuddapah	8,11,653	..	59,203	8,70,856
3 Kurnool	3,89,775	..	92,794	4,82,569
4 Sandur	76,995	..	..	76,995
5 Nellore	38,87,496	7,71,759	15,32,622	61,91,877
6 Proddatur	3,58,987	..	..	3,58,987
7 Hindupur	..	..	3,93,250	3,93,250
8 Bellary	4,69,176	..	..	4,69,176
9 Ceded Districts	..	64,70,662	10,36,791	75,13,453
Total	65,08,332	72,48,421	81,74,770	1,69,31,523
Grand total	1,75,49,135	88,47,012	1,20,73,649	3,84,69,796

Schemewar details of net deficit or net surplus.

Andhra Power System and Rayalaseema Power System.

Scheme.	To end of 1950-51.	During 1951-52.	Net surplus or deficit to end of 1951-52.
1 Visakhapatnam	- 7,39,050	- 2,80,289	- 10,19,339
2 Vijayavada	- 12,57,023	- 3,45,461	- 16,02,484
3 Kakinada	- 4,46,032	- 80,012	- 5,26,044
4 Rajahmundry	+ 1,43,703	- 1,46,559	- 2,856
5 Cuddapah	- 40,053	- 35,792	- 75,845
6 Kurnool	- 29,561	- 2,179	- 31,730
7 Anantapur	- 15,321	- 24,011	- 39,332
8 Ceded Districts	- 2,00,556	+ 1,43,560	- 56,996
9 Hindupur	+ 2,350	+ 15,552	+ 17,902
10 Sandur	- 10,830	- 9,917	- 20,747
11 Nellore	..	- 2,58,686	- 2,58,686
12 Proddatur	..	- 14,492	- 14,492
13 Salur-Parvatipur	..	+ 10,187	+ 10,187
14 Srikakulam	..	- 12,010	- 12,010
15 Narasaraopet	..	- 29,344	- 29,344
16 Ongole	..	- 22,576	- 22,576
Total	- 25,92,363	- 10,92,029	- 36,84,392

APPENDIX K.

List of staff employed.

Systems and circles.	(1)	Engineering.		Technical.		Clerical and Accounting.		Store-keepers.		Bill collectors.		Inferior staff.		Nominal muster roll labour.	
		Gazetted.	Non-Gazetted.	Gazetted.	Non-Gazetted.	Gazetted.	Non-Gazetted.	Gazetted.	Non-Gazetted.	Gazetted.	Non-Gazetted.	Gazetted.	Non-Gazetted.	Gazetted.	Non-Gazetted.
1 Chief Engineer (Electricity).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2 Chief Construction Engineer (Electricity).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3 Chief Controlling Engineer.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4 Superintendent Engineer, Technical (Electrical).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5 Superintendent Engineer, Technical (Civil).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6 Pykara	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7 Mettur	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8 Papanasam	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9 Generation circle, Erode	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10 Madras (Distribution), M.E.S.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11 Andhra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12 Rayalaseema	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13 Transmission line construction (North).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14 Transmission line construction (South).	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15 Moyer	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16 Machkund	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	296	706	3	237	49	1,966	8	177	274	1,072	66	2,974	9,916	..

APPENDIX L.

Statements showing the comparative particulars of operation and maintenance expenses, revenue, etc., before and after nationalization of the electrical undertakings having independent generating stations taken over by Government under the Madras Electricity Supply Undertakings (Acquisition) Act, 1949.

1. Cuddapah Electric Undertaking taken over on 17th November 1948.

Details.	1947-48.	From 1st April to 17th November 1948.	From taking over, viz., 18th November 1948 to 31st March 1949.	1949-50.	1950-51.	1951-52.	1952-53.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1 Gross revenue	38,844	*	28,003	1,01,668	1,40,248	1,76,948	2,25,650
2 Operation and maintenance ..	58,426	*	38,455	1,23,052	1,28,806	1,50,926	1,58,887
3 Contribution to Depreciation Reserve Fund. ..	..	..	..	..	10,000	20,700	24,600
Contribution to Special Reserve Fund. ..	..	..	..	..	4,100	7,900	9,900
5 Total working expenses ..	58,426	*	38,455	1,23,052	1,42,906	1,79,526	1,88,887
6 Net revenue	-31,241	*	-10,452	-21,388	-11,442	-2,587	87,813

2. Anantapur Electric Undertaking taken over on 14th July 1949.

Details.	1948-49.	From 1st April to 14th July 1949.	From 15th July 1949, to taking over to 31st March 1950.	1950-51.	1951-52.	1952-53.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
	RS.	RS.	RS.	RS.	RS.	RS.
1 Gross revenue	56,787	15,926	39,903	70,638	1,00,416	1,54,167
2 Operation and maintenance ..	50,817	16,807	49,921	78,477	1,18,090	1,75,212
3 Contribution to Depreciation Reserve Fund. ..	..	..	..	..	..	..
4 Contribution to Special Reserve Fund. ..	..	..	..	..	..	..
5 Total working expenses ..	50,817	16,807	49,921	78,477	1,18,090	1,75,212
6 Net revenue	8,420	-881	-10,018	-7,839	-12,674	(-) 21,045

3. Srikakulam taken over on 7th June 1951:

Details.	1950-51.	From 1st April to 7th June 1951.	From 8th June 1951, viz., taking over date to 31st March 1952.	1952-53.
(1)	(2)	(3)	(4)	(5)
	RS.	RS.	RS.	RS.
1 Gross revenue	86,161	21,178	49,535	84,550
2 Operation and maintenance ..	87,279	15,204	68,651	1,30,567
3 Contribution to Depreciation Reserve Fund ..	7,500	..	..	..
4 Contribution to Special Reserve Fund ..	..	..	..	..
5 Total working expenses ..	94,779	15,204	68,651	1,30,567
6 Net revenue	-8,618	5,969	-14,116	(-) 46,017

* Accounts not received.

APPENDIX L—cont.

Statements showing the comparative particulars of operation and maintenance expenses, revenue etc., before and after nationalization of the electrical undertakings having independent generating stations taken over by Government under the Madras Electricity Supply Undertakings (Acquisition) Act, 1949—cont.

4. Narasaraopet taken over on 26th February 1951.

Details.	1949-50.	From 1st April to 26th February 1951.	1951-52 inclusive of 27th February 1951 to 31st March 1952.	1952-53.
(1)	(2)	(3)	(4)	(5)
	RS.	RS.	RS.	RS.
1 Gross revenue	39,195	4,788	36,981	71,335
2 Operation and maintenance ..	43,942	15,178	64,804	65,416
3 Contribution to Depreciation Reserve Fund ..	9,000	..	..	..
Contribution to Special Reserve Fund ..	..	..	..	..
5 Total working expenses ..	52,942	15,178	64,804	65,416
6 Net revenue	-13,747	-10,395	-27,823	5,919

5. Salur-Parvathipur taken over on 15th June 1951.

Details.	1950-51.	From 1st April to 15th June 1951.	From 16th June 1951 to 31st March 1952.	1952-53.
(1)	(2)	(3)	(4)	(5)
	RS.	RS.	RS.	RS.
1 Gross revenue	50,804	12,227	80,147	58,844
2 Operation and maintenance ..	49,870	12,855	19,704	89,026
3 Contribution to Depreciation Reserve Fund ..	..	..	..	..
4 Contribution to Special Reserve Fund ..	..	..	..	..
5 Total working expenses ..	49,870	12,855	19,704	89,026
6 Net revenue	994	-628	10,443	(-) 80,182

6. Udipi Undertaking taken over on 1st June 1951.

Details.	1950-51.	From 1st April to 31st May 1951.	From 1st June 1951 the date of taking over to 31st March 1952.	1952-53.
(1)	(2)	(3)	(4)	(5)
	RS.	RS.	RS.	RS.
1 Gross revenue	1,09,500	18,350	57,786	1,20,959
2 Operation and maintenance ..	1,01,588	17,954	55,843	1,09,95
3 Contribution to Depreciation Reserve Fund ..	7,500	..	..	..
4 Contribution to Special Reserve Fund ..	..	..	..	..
5 Total working expenses ..	1,09,088	17,954	55,843	1,09,955
6 Net revenue	412	396	2,443	11,004

7. Kurnool Undertaking taken over on 1st October 1946.

Details.	From 1st April to 30th September 1946.	From 1st October 1946 to 31st March 1947.	1947-48.	1948-49.	1949-50.	1950-51.	1951-52.	1952-53.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
1 Gross revenue	25,079	15,454	68,556	1,02,875	1,19,915	1,48,668	1,97,675	2,49,178
2 Operation and maintenance ..	84,055	25,823	79,639	97,574	1,11,576	1,43,488	1,80,267	2,57,588
3 Contribution to Depreciation Reserve Fund ..	..	..	..	..	..	5,225	1,700	12,800
4 Contribution to Special Reserve Fund ..	..	..	..	..	..	..	..	..
5 Total working expenses ..	84,055	25,823	79,639	97,574	1,11,576	1,48,668	1,81,967	2,70,188
6 Net revenue	-8,976	-10,369	-11,083	5,301	8,339	..	15,718	(-) 21,015

APPENDIX M.

Details of Investment—Depreciation Reserve Fund—31st March 1953.

	Face value. RS.	Purchase price. RS. A. P.
<i>Pykara Hydro-Electric System.</i>		
Depreciation Reserve Fund, 31st March 1953—		
Madras 3 per cent Loan, 1953	6,83,000	6,73,317 8 0
Do. 1959	1,70,300	1,64,780 7 0
Do. 1960	9,17,200	8,96,002 12 0
Do. 1961	13,84,500	1,336,965 4 0
Madras 3½ per cent Loan, 1962	18,00,000	17,55,000 0 0
Government of India 3 per cent C.L., 1946	8,40,000	8,46,775 0 0
Government of India 3 per cent Loan, 1959-61 ..	13,60,000	13,78,600 0 0
Do. 1953-55	8,60,000	8,72,362 8 0
Do. 1957	3,96,900	3,99,232 4 0
Do. 1963-65	17,50,000	16,60,312 8 0
Do. 1960-70	4,000	4,517 8 0
Do. 1970-75	19,75,000	19,20,531 4 0
Total	1,21,40,900	1,19,03,396 15 0

Special Reserve Fund—

Madras 3 per cent Loan, 1953	3,50,000	3,46,500 0 0
Do. 1959	43,600	41,640 3 0
Do. 1960	2,98,300	2,96,808 8 0
Madras 2½ per cent Loan, 1961	3,60,000	3,61,293 12 0
Government of India 3 per cent C.L., 1946	3,00,000	3,02,812 8 0
Government of India 3 per cent Loan, 1959-61 ..	5,34,000	5,39,340 0 0
Do. 1953-55	2,25,000	2,29,674 14 0
Do. 1957	2,00,900	2,02,890 4 0
Do. 1963-65	5,50,000	5,23,750 0 0
Do. 1970-75	3,83,000	3,83,000 0 0
Do. 1966-68	4,30,000	4,13,337 8 0
Government of India 3 per cent C.L., 1966	6,00,500	4,81,150 10 0
Total	43,75,300	42,22,195 3 0
Total	1,65,16,200	1,61,25,592 2 0

Mettur Hydro-Electric System.

Depreciation Reserve Fund, 31st March 1953—

Madras 3 per cent Loan, 1959	1,56,600	1,52,590 14 0
Do. 1960	4,82,400	4,79,988 0 0
Madras 2½ per cent Loan, 1961	5,70,000	5,72,006 4 0
Government of India 3 per cent C.L., 1946	5,00,000	5,04,687 8 0
Government of India 3 per cent Loan, 1959-61 ..	5,34,000	5,39,340 0 0
Do. 1953-55	6,80,000	6,89,775 0 0
Do. 1957	5,64,000	5,65,520 0 0
Do. 1963-65	23,03,800	21,58,707 4 0
Do. 1970-75	17,42,000	16,92,718 12 0
1952-53 Government of India 3½ per cent Loan, 1962.	10,00,000	9,75,000 0 0
Total	85,32,800	83,30,333 10 0

APPENDIX M—cont.

Details of Investment—Depreciation Reserve Fund—31st March 1953—cont.

	Face value. RS.	Purchase price. RS. A. P.
<i>Mettur Hydro-Electric System—cont.</i>		
Special Reserve Fund—		
Madras 3 per cent Loan, 1959	98,700	94,592 11 0
Do. 1960	2,00,900	1,99,958 0 0
Madras 2½ per cent Loan, 1961	2,24,000	2,05,020 0 0
Government of India 3 per cent C.L., 1946	2,00,000	19,762 8 0
Government of India 3 per cent Loan, 1959-61 ..	84,000	2,01,875 0 0
Do. 1953-55	2,25,000	24,840 0 0
Do. 1957	2,84,400	2,28,234 6 0
Do. 1963-65	8,40,000	2,86,727 8 0
Do. 1970-75	3,55,000	7,85,925 0 0
Do. 1966-68	3,30,000	3,55,000 0 0
Total	28,42,000	3,17,212 0 0
Total	1,14,74,800	27,79,147 9 0
Total		1,11,09,481 3 0

Papanasam Hydro-Electric System.

Depreciation Reserve Fund, 31st March 1953—

Madras 3 per cent Loan, 1960	76,600	76,217 0 0
Madras 2½ per cent Loan, 1961	78,000	78,390 0 0
Government of India 3 per cent C.L., 1946	85,000	85,659 6 0
Government of India 3 per cent Loan, 1953-55 ..	96,000	97,380 0 0
Do. 1957	4,91,300	4,91,300 0 0
Do. 1970-75	15,67,000	14,70,878 12 0
Total	23,93,900	22,99,825 2 0

Special Reserve Fund—

Madras 2½ per cent Loan, 1961	28,000	28,140 0 0
Madras 3 per cent Loan, 1960	24,600	24,477 0 0
Government of India 3 per cent Loan, 1957	1,96,500	1,96,500 0 0
Do. 1953-55	25,000	25,359 6 0
Do. 1957	35,000	35,190 10 0
Government of India 3 per cent C.L., 1946	1,80,000	1,80,000 0 0
Government of India 3 per cent Loan, 1970-75 ..	2,00,000	1,80,000 0 0
Do. 1966-68	2,60,000	1,92,250 0 0
Do. 1963-65	2,60,000	2,40,825 0 0
Total	9,49,100	9,22,742 0 0
Total	33,43,000	32,22,567 2 0

Madras Thermal Electricity System.

Depreciation Reserve Fund, 31st March 1953—

Government of India 3 per cent Loan, 1953-55 ..	7,80,000	7,91,212 8 0
Do. 1970-75	14,00,000	14,00,000 0 0
Do. 1963-65	11,20,000	10,87,800 0 0
1951-52 Government of India 4 per cent Loan, 1960-70.	18,80,400	19,10,956 8 0
1952-53 Government of India 3½ per cent Loan, 1962 ..	8,87,900	8,65,702 8 0
Total	60,68,300	60,55,671 8 0

APPENDIX M—cont.

Details of Investment—Depreciation Reserve Fund—31st March 1953—cont.

Madras Thermal Electricity System—cont.

		Face value.	Purchase price.		
		RS.	RS.	A.	P.
Special Reserve Fund—					
Government of India 3 per cent Loan, 1953-55	..	1,25,000	1,26,796	14	0
Do. 1970-75	..	1,60,000	1,60,000	0	0
Do. 1966-68	..	5,00,000	4,64,500	0	0
Total	..	7,85,000	7,51,296	14	0
Total	..	68,53,300	68,06,968	6	0

Vijayavada Thermal System.

Depreciation Reserve Fund, 31st March 1953—

Madras 2½ per cent Loan, 1961	..	70,000		70,350	0	0
Government of India 3 per cent C.L., 1946	..	90,000		90,843	12	0
Government of India 3 per cent Loan, 1970-75	..	1,33,000		1,27,812	8	0
Total	..	2,93,000		2,89,006	4	0

Visakhapatnam Thermal System.

Depreciation Reserve Fund, 31st March 1953—

Government of India 3 per cent Loan, 1970-75	..	2,30,000		2,23,256	4	0
1951-52 Government of India 3 per cent Loan, 1963-65.	..	1,00,000		92,625	0	0
Total	..	3,30,000		3,15,881	4	0

Special Reserve Fund—

Government of India 3 per cent Loan, 1970-75	..	40,000		40,000	0	0
Do. 1966-68	..	40,000		38,450	0	0
Total	..	80,000		78,450	0	0
Total	..	4,10,000		3,94,331	4	0

ABSTRACT.

Pykara Electricity system	..	1,65,16,200		1,61,25,592	2	0
Mettur Electricity system	..	1,14,74,800		1,11,09,481	3	0
Papanasam Electricity system	..	33,43,000		32,22,567	2	0
Total Hydro	..	3,13,34,000		3,04,57,640	7	0
Madras Electricity system	..	68,53,300		68,06,968	6	0
Andhra Power system	..	7,03,000		6,83,337	8	0
Total Thermal	..	75,56,300		74,90,305	14	0
Grand total	..	3,83,90,300		3,79,47,946	5	0

APPENDIX N.

Percentage of progress on construction works in 1952-53.

Serial number and name of schemes.		Budget estimate for 1952-53.	Actuals during 1952-53 to end of March 1953 preliminary.	Percent tace.	
1 Moyar Hydro-Electric Scheme	..	10.31	7.92	77	Decrease due to cost of Moyar Power generated. Credited to E. and R Capital account.
2 Pykara Plant Extensions	..	77.73	60.55	78	Decrease due to postponement of payment to suppliers.
3 Pykara-Coimbatore-Madurai 110 KV. third circuit line.	..	18.51	28.86	..	Increase due to construction materials received in advance and payments made.
4 South Kanara Scheme	..	0.95	7.08	..	Increase due to cost of transmission line materials not anticipated. Received and paid.
5 66 KV. Extension to and construction of a sub-station at Pollachi.	..	4.62	0.78	17	Reduction due to curtailment of expenditure under capital works.
6 Madras-Mettur Interconnexion Scheme.	..	13.90	9.77	71	Do.
7 Erode-Tiruchirappalli-Dalmlapuram Extensions.	..	6.22	6.05	97	
8 Erode-Salem Extensions	..	2.89	2.37	82	
9 Tanjore-Mayuram-Chidambaram Extensions.	..	4.95	1.83	38	Reduction due to postponement of payment to suppliers on account of cut in capital expenditure.
10 Madurai Thermal Scheme	..	27.70	24.62	88	
11 Madurai-Tirumangalam-Rajapalayam-Tenkasi Extensions.	..	9.01	5.74	64	Remarks as against item 5. above.
12 Madurai-Sivaganga Extensions	..	4.82	5.37	..	
13 Papanasam-Tirunelveli-Kayathar Extensions.	..	3.37	4.46	..	
14 Machkund Hydro-Electric Scheme	..	261.50	180.45	69	Reduction due to postponement of payment to suppliers and slowing down of work due to restriction of Capital expenditure.
15 Tungabhadra Hydro-Electric Scheme.	..	18.16	7.94	44	Anticipated expenditure under London Stores has not been spent. Adjustment awaited in Supplemental accounts.
16 Madras Power Station Extensions	..	108.06	62.22	57	Remarks as against item 14.
17 Madanapalli Thermal Scheme	..	3.15	5.66	..	
18 Vijayavada-Rajahmundry-Samalkot Extensions.	..	10.25	1.74	17	Less actuals on account of London Stores Debit expected in Supplemental accounts.
Total	..	576.10	423.46		



PUBLIC WORKS DEPARTMENT

(Electricity)

G.O. No. 3757, 15th September 1953

Electricity Department—Administration Report for 1952-53—Recorded.

READ—the following paper :—

From the Chief Engineer (Electricity), dated 1st September 1953,
No. 1-R/53-46.

Order—No. 3757, P.W. (Electricity), dated 15th September 1953.

Recorded.

2. This is the twenty-sixth Annual Report of the Government Electricity Department and it contains a record of progress of electricity development in the State. The works included in the Five-Year Plan were in progress, e.g., Machkund, Moyar, Pykara, Papanasam, etc., schemes. The aggregate demand for power under the Government systems during the year under review was 166,220 K.W. as against 166,275 K.W. in 1951-52 and the total number of units generated was 795.447 millions as against 800.21 millions in 1951-52. The net revenue realized from all the systems was Rs. 130.22 lakhs and the return on the capital was 4.8 per cent. The number of units generated at the various stations were as follows :—

					Year of operation.	Number of units generated (in millions).
Hydro-Electric—						
1	Pykara	..	..	..	Twentieth	220.775
2	Mettur	..	..	..	Sixteenth	137.620
3	Papanasam	..	..	..	Ninth	85.660
4	Moyar	..	..	..	First	84.563
Thermal (A) Steam—						
5	Madurai	..	..	..	Third	19.811
6	Madras	..	..	..	Sixth	152.170
7	Vissakhapatnam	..	..	..	Fourteenth	19.216
8	Vijayavada	..	..	..	Do.	47.717
9	Nellore	..	..	..	Third	4.736

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	Year of operation.	Number of units generated (in millions).
Thermal (B) Diesel—		
10 Kakinada	Thirteenth	0.612
11 Kurnool	Seventh	1.256
12 Cuddapah	Fifth	0.896
13 Anantapur	Fourth	0.647
14 Sandur	Do.	0.059
15 Srikakulam	Second	0.236
16 Narasannapeta	Do.	0.036
17 Ongole	Do.	0.206
18 Narasaraopet	Do.	0.047
19 Proddatur	Do.	0.337
20 Nandyal	Do.	0.296
21 Tadpatri	Do.	0.144
22 Rajahmundry	Fourth	0.539
23 Udupi	Second	0.289
24 Karkala	Do.	0.056

Power purchased from Mysore and other sources—

25 Ceded Districts	Fourth	15.932
26 Hindupur	Third	0.876
27 Kollegal	Fifth	0.450
28 Fort Cochin	Second	0.266

3. Capital expenditure during the year on projects and extensions under construction totalled Rs. 790 lakhs. The following generating units were commissioned during the year :—

- (i) Three generating units at Moyar Power House.
- (ii) Two boilers at Basin Bridge Power House.
- (iii) Two diesel generator sets at Udupi Power House.
- (iv) Two diesel generator sets at Kakinada Power House.

The Papanasam-Kayattar 66 K.V. line, the Madurai-Sivaganga 66 K.V. line and the Tirumangalam-Rajapalayam-Tenkasi 66 K.V. lines were completed and put into service during the year.

4. Under the Madras Electricity Supply Undertakings (Acquisition) Act, 1949, no new electrical undertaking was acquired by the Government during the year.

5. Due to failure of monsoons, a 25 per cent cut in supplies of electrical energy to all but essential services was in force at the beginning of the year and this was increased to 35 per cent with effect from 1st May 1952 and to 50 per cent from 15th May 1952. Inflows in June 1952, however, enabled the withdrawal of the cut from the 1st July 1952. Again, due to the failure of monsoons, a 25 per cent cut in power consumption was enforced with effect from the 29th September 1952 and this was increased to 35 per cent with effect from the 5th January 1953, 50 per cent with effect from the 1st February 1953 and 66-2/3 per cent with effect from the 1st March 1953. Consequent on the improvement in the water storage position in the hydel reservoirs, the cut was completely removed from the 5th July 1953.

6. The 10 per cent war costs surcharge on all supplies in the hydro areas 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.

7. The restriction and control and freezing orders continued to be in force.

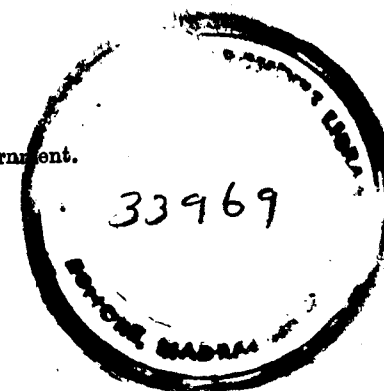
8. Priority was given to schemes for agricultural pumping and 2,445 pump sets were connected by the department and 506 by licensees during the year. The Coimbatore-Madukkarai-Palghat-Shoranur 110 K.V. extensions was sanctioned during the year.

9. The Governor of Madras places on record his appreciation of the continued good work done by the Electricity Department during the year.

(By order of the Governor)

T. M. S. MANI,
Secretary to Government.

To the Chief Engineer (Electricity).
" Chief Electrical Inspector to Government.
" Public Department.



27/5/94,
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