



GOVERNMENT OF MADRAS

REPORT
OF THE
MADRAS ELECTRICITY BOARD
COMMITTEE, 1935-36

VOLUME I

MADRAS
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1936

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APPENDIX I.

(Referred to in paragraph 3 under Thermal Stations.)

Statement showing the electric licences granted in the Presidency.

A. Companies.

Serial number and name of licence.	Year of grant of licence.	Year of commencement of supply.	System of supply.
1 The Madras Electric Licence.	1905	1908	D.C. 450/225 volts for a small portion of the city which was electrified prior to 1915 and the rest A.C. 400/230 volts. 3-phase 50 cycles.
2 Cochin Electric Licence ..	1921	1925	A.C. 400/230 volts 3-phase 50 cycles.
3 Devakottai Electric Licence.	1924	1924	D.C. 460/230 volts.
4 Trichinopoly-Srirangam Electric Licence.	1925	1927	A.C. 400/230 volts 3-phase 50 cycles.
5 Rajahmundry Electric Licence.	1925	1929	Do.
6 Kanadukathan Electric Licence.	1926	1928	A.C. 400/230 volts 3-phase 50 cycles, but a small portion of area is served by D.C. 400/230 volts.
7 Nattarasankottai Electric Licence.	1927	1932	A.C. 400/230 volts 3-phase 50 cycles.
8 Calicut Electric Licence ..	1927	1929	Do.
9 Karaikudi do. ..	1928	1930	Do.
10 Vellore do. ..	1929	1931	Do.
11 Kumbakonam do. ..	1930	1932	Do.
12 Mangalore do. ..	1930	1933	Do.
13 Guntur do. ..	1930	1932	Do.
14 Nellore do. ..	1930	1934	Do.
15 Tinnevely-Turicorin Electric Licence.	1930	1933	Do.
16 Proddatur do. ..	1930	1936	Do.
17 Okkur Electric Licence ..	1930	1935	Do.
18 Salem-Erode do. ..	1931	1933	Do.
19 Palghat do. ..	1932	1933	Do.
20 Tirumalai-Tirupati Electric Licence.	1932	1932	Do.
21 Chittoor Electric Licence ..	1932	1935	Do.
22 South Arcot do. ..	1933	1934	Do.
23 Negapatam do. ..	1933	1935	Do.
24 Vizagapatam do. ..	1933	1934	Do.
25 Mayavaram-Mannargudi-Tiruvavur Electric Licence.	1933	1935	Do.
26 Ellore Electric Licence * ..	1935	..	Do.
27 Adoni do. * ..	1935	..	Do.
28 Ambur-Vaniyambadi Electric Licence.*	1935	..	Do.
29 Gudiyattam Electric Licence.*	1935	..	Do.
30 Bobbili do.*	1935	..	Do.
31 Chingleput do.*	1935	..	Do.
32 Gudivada do.*	1936	..	Do.
33 Ongole do.*	1936	..	Do.
34 Narasaraopet do.*	1936	..	Do.

* Not yet commenced construction.

Statement showing the electric licences granted in the Presidency—cont.

Serial number and name of licence.		Year of grant of licence.	Year of commencement of supply.	System of supply.	
B. Municipal Councils and Panchayat Boards.					
1	Bellary Electric Licence ..	1921	1924	A.C. 400/230 volts	3
				phase 50 cycles.	
2	Ootacamund do. ..	1921	1924	Do.	
3	Madura do. ..	1923	1928	Do.	
4	Bezwada do. ..	1927	1930	Do.	
5	Cocanada do. ..	1927	1929	Do.	
6	Kurnool do. ..	1928	1930	Do.	
7	Masulipatam do. ..	1929	1932	Do.	
8	Hindupur do. ..	1929	1930	D.C. 460/250 volts.	
9	Coonoor do. ..	1929	1929	A.C. 400/230 volts	3
				phase 50 cycles.	
10	Tanjore do. ..	1929	1929	Do.	
11	Conjeeveram do. ..	1931	1931	Do.	
12	Sembiam do. ..	1930	1930	Do.	
13	Tiruppur do. ..	1932	1933	Do.	
14	Pollachi do. ..	1932	1933	Do.	
15	Coimbatore do. ..	1933	1933 *	Do.	
16	Virudunagar do. ..	1933	1934	Do.	
17	Dindigul do. ..	1933	1934	Do.	
18	Hospet do. ..	1933	1935	Do.	
19	Tiruvottiyur do. ..	1933	1934	Do.	
20	Palni do. ..	1934	1934	Do.	
21	Karur do. ..	1934	1935	Do.	
22	Alandur do. ..	1934	1935	Do.	
23	Periyakulam do. ..	1935	1935	Do.	
24	Bodinayakkanur do. ..	1935	1935	Do.	
25	Udamalpet do. ..	1935	1935	Do.	
26	Villivakkam do. † ..	1935	..	Do.	
27	Tiruvallur do. † ..	1935	..	Do.	

* Supply actually commenced in October 1932, but licence was given only in 1933.

† Under construction.

APPENDIX II.

(Referred to in paragraph 11.)

ELECTRIC SUPPLY UNDERTAKINGS.

Statement showing capital, area of supply, plant installed and units produced.

A. Companies.					
Name of the undertaking.	Area of supply.	Capital invested.	Loan.	Installed capacity.	Units generated.
(1)	(2)	(3)	(4)	K.W. (5)	(6)
1 The Madras Electric Licence.	Madras City and about 30 miles around.	Rs. 1,86,89,594	Rs. Nil.	37,500	33,889,661
2 The Cochin Electric Licence.	British Cochin ..	1,68,497	2,15,178	72	116,946
3 The Devakotah Electric Licence.	Devakotah and 5 miles round it.	2,17,936	Nil.	158	175,558
4 The Trichinopoly-Srirangam Electric Licence.	Trichinopoly and Ialgudi taluks.	11,86,895	3,50,000	1,212	3,107,000
5 The Rajahmundry Electric Licence.	Rajahmundry and Dowlaishwaram.	3,37,831	1,10,000	436	337,831
6 The Kanadukathan Electric Licence.	North, Pudukkottai boundary; east, Tanjore district; south, 10-5 latitude; west, 70-5 longitude.	4,45,160	57,000	273	181,882
7 The Nattarasankottai Electric Licence.	Nattarasankottai and Sivaganga.	2,03,628	1,05,400	120	112,826
8 The Calicut Electric Licence.	Calicut and a few miles around it.	4,00,000	Nil.	680	438,000

Statement showing capital, area of supply, plant installed and units produced—cont.

Name of the undertaking.	Area of supply.	Capital invested.	Loan.	Installed capacity. K.W.	Units generated.
(1)	(2)	(3)	(4)	(5)	(6)
A. Companies—cont.					
9 The Karaikudi Electric Licence.	North, 10-5 ; south, 10 ; west, 78-40 ; east 78-50.	RS. 2,71,301	RS. Nil.	200	257,007
10 The Vellore Electric Licence.	Vellore and six miles radius from the Power House.	3,37,695	80,000	500	327,114
11 The Kumbakonam Electric Licence.	Kumbakonam and Papanasam taluks and a portion of Tanjore taluk.	3,87,226	Nil.*	490	443,897
12 The Mangalore Electric Licence.	Mangalore and 5 miles around.	6,65,485	Nil.	750	452,083
13 The Guntur Electric Licence.	Guntur, Tenali, Bapatla and Repalle taluks.	4,76,543	2,00,000	350	383,290
14 The Nellore Electric Licence.	Nellore and 3 miles around.	1,70,664	1,00,000	248	80,671
15 The Tinnevely-Tuticorin Electric Licence.	Tinnevely-Palamcottah and Tuticorin and 5 miles on either side of their line from Tuticorin and Palamcottah.	11,49,314	Nil.	1,100	460,440
16 The Proddatur Electric Licence.	Proddatur and a few miles around.	50,000	Nil.	96	[Supply commenced in January 1936.
17 The Okkur Electric Licence.	Okkur and six other villages in Ramnad district.	1,69,113	50,000	90	Supply commenced in December. 750,000
18 The Salem-Erode Electric Licence.	Salem town and 6 miles round it and a small portion of Salem taluk and Erode town.	5,42,905	Nil.	1,075 K.V.A.	150 123,846
19 The Palghat Electric Licence.	Palghat town ..	1,31,657	26,238	150 K.V.A.	384 291,519
20 The Tirumalai-Tirupati Electric Licence.	Tirupati town, Tirumalai Hills and a small area around Tirupati.	6,11,728	Nil.	96	100,000
21 The Chittoor Electric Licence.	Chittoor and 5 miles around.	1,00,000	20,336	400	300,000
22 The South Arcot Electric Licence.	Villupuram, Chidambaram and Cuddalore taluks.	4,00,000	1,00,000	1,075	..
23 The Negapatam Electric Licence.	Negapatam town and water-works.	1,13,997	Nil.	240	150,000
24 The Vizagapatam Electric Licence.	Vizagapatam and 6 miles around.	1,56,073	Nil.	800 K.V.A.	100,000
25 The Mayavaram-Mannargudi-Tiruvavur Electric Licence.	Mayavaram, Mannargudi and Tiruvavur taluks.	4,43,000	Nil.	2,78,26,242	46,495
26 The Ellore Electric Licence.†	Ellore and 5 miles around.	2,60,000	Nil.	500	} Roughly 10 lakhs for all the items under construction—viz., items 26 to 34.
27 The Adoni Electric Licence.†	Adoni and 5 miles around.	2,00,000	Nil.	200	
28 The Ambur-Vaniyambadi Electric Licence.†	Portion of Tirupattur and Gudiyattam taluks.	4,00,000	Nil.	200	
29 The Gudiyattam Electric Licence.†	Portion of Gudiyattam and Vellore taluks.	3,00,000	Nil.	200	
30 The Bobbili Electric Licence.†	..	2,00,000	Nil.	150	
31 The Chingleput Electric Licence.†	Chingleput and 5 miles around.	1,50,000	Nil.	150	
32 The Gudivada Electric Licence.†	Gudivada and 2 miles around.	1,00,000	Nil.	100	
33 The Ongole Electric Licence.†	Ongole and a few miles around.	1,00,000	Nil.	100	
34 The Narasaraopet Electric Licence.†	Narasaraopet and a few miles around.	1,00,000	Nil.	100	
		2,78,26,242		46,495	

* The company has obtained permission to raise debenture.

† Not yet commenced construction. The figures indicate rough estimates.

Statement showing capital, area of supply, plant installed and units produced—cont.

Name of the undertaking.	Area of supply.	Capital invested.	Capital borrowed.	Installed capacity K.W.	Units generated.
(1)	(2)	(3)	(4)	(5)	(6)
B. Municipal Councils and Panchayat Boards.					
		RS.	RS.		
1 The Bellary Electric Licence.	Municipal and Cantonment limits.	3,72,282	1,84,000	273	377,194
2 The Ootacamund Electric Licence.	Ootacamund, Coonoor and St. George's Homes, Ketti.	6,42,042	4,75,000	1,200K.V.A.	541,818
3 The Madura Electric Licence.	Municipal limit	8,72,642	10,00,000	1,125	1,478,539
4 The Bezwada Electric Licence.	Do. ..	4,59,432	5,62,985	163	603,517
5 The Cocanada Electric Licence.	Do. ..	4,10,866	4,05,000	450	405,759
6 The Kurnool Electric Licence.	Do. ..	2,79,819	4,00,000	235	315,784
7 The Masulipatam Electric Licence.	Do. ..	2,92,377	3,25,000 *	160	194,619
8 The Hindupur Electric Licence.	Do. ..	1,40,670	1,33,000	60	61,263
9 The Coonoor Electric Licence.	Do. ..	1,77,741	1,72,000	350K.V.A.	164,100
10 The Tanjore Electric Licence.	Do. ..	3,65,370	2,90,000	250	527,466
11 The Conjeeveram Electric Licence.	Do. ..	2,50,000	2,50,000	350	290,473
12 The Sembiam Electric Licence.	Do. ..	1,12,830	22,000	80	173,245
13 The Tiruppur Electric Licence.	Do. ..	1,47,591	1,93,000	500K.V.A.	761,590
14 The Pollachi Electric Licence.	Do. ..	1,68,671	1,55,700	460	454,342
15 The Coimbatore Electric Licence.	Do. ..	4,75,072	5,00,000	700	1,048,711
16 The Virudunagar Electric Licence.	Do. ..	1,48,523	1,41,600	380	183,634
17 The Dindigul Electric Licence.	Do. ..	1,09,705	1,00,000	380	163,680
18 The Hospet Electric Licence.	Do. ..	1,00,000	1,10,000 †	985	..
19 The Tiruvottiyur Electric Licence.	Do. ..	16,014	20,000	150	50,840
20 The Palni Electric Licence.	Do. ..	50,000	38,000	135K.V.A.	50,180
21 The Karur Electric Licence.	Do. ..	96,000	96,000	..	Not known.
22 The Alandoor Electric Licence.	Do. ..	50,000	55,000	200K.V.A.	100,000
23 The Periyakulam Electric Licence.	Do. ..	77,500	77,500	95	100,000
24 The Bodinayakanur Electric Licence.	Do. ..	60,500	60,500	70	75,000
25 Udamalpet ..	Do. ..	63,000	63,000
26 The Villivakkam † Electric Licence.	Do. ..	25,000	25,000	100K.V.A.	..
27 Tiruvallur Electric † Licence.	Do. ..	75,000	50,000
		<hr/> 58,75,647	<hr/> 57,25,285	<hr/> 9,241	<hr/> 8,196,724

* Rs. 75,000 from Government and Rs. 250,000 from the Kistna District Board.

† From the Kurnool District Board.

Under construction.

APPENDIX III.

(Referred to in paragraph 37.)

Forecast of financial position of the Pykara Project at end of 1936-37 including the capital and revenue relating to the Karur, Trichinopoly and Negapatam extensions.

Year.	Capital outlay up to the year.	Capital outlay during the year.	Interest on capital outlay up to the year plus half the outlay during the year.	Operation and maintenance.	Depreciation and renewals.	Total expenses 5 + 6.	Gross revenue.	Net revenue 8 — 7.	Percentage of return on capital outlay.	Surplus after deducting interest charges 9 — 4.	Accumulated surplus.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Construction period— (Actuals)	RS.	RS.	RS.	RS.	..	RS.	RS.	RS.	..	RS.	RS.
1933-34— (Actuals)	1,16,95,038	..	11,38,382	46,716	..	46,716	37,594	— 9,122	..	— 11,47,504	— 11,47,504
1934-35— (Actuals)	1,13,95,038	6,06,321	6,45,421	2,52,368	..	2,52,368	3,82,083	1,29,715	1.05	— 5,15,706	— 16,63,210
1935-36	1,23,01,359	22,06,511	6,86,343	3,07,576	..	3,07,576	10,04,921	6,97,345	4.81	+ 11,002	— 16,52,208
1936-37	1,45,07,870	37,98,400	9,84,424	3,77,800	..	3,77,800	15,29,200	11,51,400	6.29	+ 1,06,976	— 14,85,232
1936-37	1,83,06,270	10,66,000	11,30,356	4,04,200	..	4,04,200	20,46,400	16,42,200	8.46	+ 5,11,844	— 9,73,388
							RS.				
							Capital outlay at end of 1936-37 ..	1,93,72,270			
							Arrears of simple interest	9,73,388			
							Sum at charge excluding indirect charges	2,03,45,658			
							Net revenue	16,42,200			
							Return	8.07 per cent.			

Government of Madras

PUBLIC WORKS DEPARTMENT

(Electricity)

G.O. No. 1353, 9th June 1936

Electricity—Committee appointed to investigate and advise on questions relating to electricity—Report published.

READ—the following papers :—

I

G.O. No. 2436 W., dated 12th November 1935.

II

From the Secretary, Madras Electricity Board Committee,
dated 6th June 1936.

Order—No. 1353, P.W.D. (Electricity), dated 9th June 1936.

The Committee appointed in G.O. No. 2436 W., dated 12th November 1935, to enquire into and advise on questions connected with the electric supply industry in the Presidency has submitted its report. The report is published for information. The Government will examine the recommendations of the Committee and orders thereon will issue in due course, any matters requiring consideration being left to the Government under the Reformed Constitution.

2. The Government desire to place on record their appreciation of the care and thoroughness with which the Committee has conducted its investigation.

(By order of the Governor in Council)

W. SCOTT BROWN,
Secretary to Government.

To the Members of the Committee.
,, Chief Engineer for Electricity.
,, Director of Industries.
,, Finance Department.
,, Development Department.
,, Revenue Department.
,, Public Department.
,, Accountant-General, Madras.
,, Legislative Council Library.

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