

# ANNUAL ADMINISTRATION REPORT



R. R. No. 368/65



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MADRAS STATE ELECTRICITY BOARD

ADMINISTRATION REPORT  
OF THE  
MADRAS STATE ELECTRICITY BOARD

FOR THE YEAR  
1961-1962

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## GUIDE TO THE REPORT.

A guide to the report is given below.

Details of the departmental activities are given in ten sections in this report. The activities are grouped generally on a functional basis.

Section I of the report gives the departmental activities in general. Operation of the systems is the subject of Section II where production, purchase and delivery of power during the year is discussed in a narrative form. This also covers the maintenance works carried out in the various generating stations, and sub-stations. The financial particulars relating to the department are dealt with in Section III. Statements of operations and maintenance, expenditure on capital works and investments, etc., are found in this section. These statements are supported in the appendices by detailed schedules of fixed assets, individual reserve accounts and statement of cost of power.

The activities of the construction, engineering and technical branches are discussed in Section IV. This gives details about the major projects in progress, transmission lines and sub-stations under construction, technical branch activities, investigation of new schemes, etc.

Section V deals with Rural Electrification works in this Board. This also includes departmental works in Community Development Blocks and Stage I, Stage II and Pre-extension block areas. Section VI deals with Manufacture and Testing activities. The details of work turned out in testing laboratories in the various systems and works carried out by the special maintenance organisation are included in this section. The activities of Mettur Workshops also find a place here.

The next Section VII containing reports on the Licensees, Electrical Undertakings and Inspectorate.

Personnel administration is discussed in Section VIII while the Programme for 1962-63 of the Department forms Section IX.

Appendices form the X and final Section of the report.

Besides grid map, photos, graphs and charts are also included in appropriate places for which indication is also given separately.

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## ADMINISTRATION REPORT OF THE MADRAS STATE ELECTRICITY BOARD FOR THE YEAR 1961-62.

### SECTION I—GENERAL REVIEW.

This is the 35th Annual Report since the creation of the former Electricity Department of the Government of Madras and the fifth report after the formation of the Madras State Electricity Board in 1957.

Sri S. R. Kaiwar, I.C.S. (Member, Board of Revenue, continued to be the Chairman of the Electricity Board till 31st May 1961 and he went on leave for four months with effect from 1st June 1961.

Sri C. A. Ramakrishnan, I.C.S. (Member, Board of Revenue), was appointed as Chairman of the Board in place of Sri S. R. Kaiwar, I.C.S., who went on leave and he continued to be the Chairman during the year under review.

The term of the following members was extended and they continued to be the members of the Board during the year :—

Sri V. P. Appadurai ... Technical Member.

Sri T. K. Palaniappan ... Secretary, Industries, Labour and Co-operation Department, Government of Madras.

Sri T. A. Verghese ... Secretary, Finance Department, Government of Madras.

Sri K. R. Rama Ayyar ... Accounts Member.

Sri R. C. Joseph, I.A.S. (Retd.) continued to be the Secretary of the Board.

Eighteen meetings of the Board were held during the year.

For the financial and administrative purposes, the Board's organisation is divided into fourteen circles each under the control of a Superintending Engineer. In addition, there are three circles each under the control of a Superintending Engineer functioning directly under Chief Engineer for Electricity. These three circles are engaged in the designs and co-ordination of the various schemes and projects. A chart showing the details of the Board's organisation is given in Section VIII.

The Board is in-charge of generation, transmission and distribution of electric energy in the State. Generation and transmission of power are done entirely by the Board while distribution is done mostly by the Board and partly by the licensees' undertakings.

The grid map on the front page indicates the existing power stations, important transmission lines down to 33 K.V. and sub-stations. The lines under execution, those likely to materialise by 1966 and future extension are also marked in the same grid map.

During the year under review which is the first year of the Third Five-Year Plan, the capital expenditure on projects and extensions totalled to Rs. 1,788.84 lakhs.

The gross and net revenue earned by the Board rose to Rs. 1,795.13 lakhs and Rs. 849.57 lakhs from Rs. 1,528.97 lakhs and Rs. 652.08 lakhs respectively indicating an increase of 17.21 per cent and 30.32 per cent respectively.

Two turbo alternator sets, 1 x 5,000 K.W. and 1 x 6,000 K.W. capacity in 'A' Station at Basin Bridge, Madras, which had served for over 50 years and unfit for any more service were removed from service during this year.

No new stations or additional units in the existing stations were brought into commission during the year. The maximum power demand of the grid during the year rose to 522.85 M.W. from 448.12 M.W. reached during 1960-61 recording an increase of 16.68 per cent.

2,524 million units were generated in all the Power Stations and this is 14.10 per cent more than the total units generated during 1960-61. The Rameswaram Island was having power supply only during nights from the diesel generator sets which generated 0.149 million units during the year. The Island loads were however connected to the hydro grid by constructing a link of 48 miles 8.0 K.M. of 11 K.V. line across the Pamban Canal including a short length of submarine cable. Twenty-four hours supply was thus extended to 12.870 million units.

Power supply from Kerala State Electricity Board to the extent of 14.417 million units was availed of at Thuckalay Point to feed Kanyakumari district while supply from Andhra Pradesh Electricity Board was availed to the extent of 12.870 million units.

The energy exported to hydro systems and that imported from the hydro areas were 103.570 million units and 159.638 million units respectively.

Power supply to the extent of 57.771 million units was given to the Kerala State and 0.951 million units to the Andhra State.

About 84,000 new consumers were given supply during the course of the year bringing the total number of consumers as on 31st March 1962 to 879,753 with a connected load of 1,476,015.147 K.W. The details of number of consumers together with the particulars of connected load are given in Appendix 'M'.

#### ELECTRICITY DEVELOPMENT UNDER THE FIVE-YEAR PLANS.

The demand for power in the State is widespread and ever on the increase. Several new industries are being planned all over the State and power for them has to be provided from the grid.

To meet the increase in demand, an ambitious programme estimated at Rs. 100.19 crores has been drawn up for implementation during the Third Plan period. The outlay forms 35 per cent of the total outlay for the State. During the Third Plan period the installed capacity is proposed to be augmented by another 560 M.W. which does not include the installed capacity coming under the Neyveli Thermal Station. The Third Plan also provides for extension of supply of electricity to 8,000 towns, villages and hamlets in addition to 10,780 already electrified. 75,000 pumpsets are expected to be connected up during the Plan period in addition to 117,695 pumpsets already connected.

The following are the major generation schemes included in the Third Five-Year Plan :—

1. Mettur Tunnel Hydro-Electric Scheme.
2. Kundah Hydro-Electric Scheme III Stage Extensions.
3. Annamalai Hydro-Electric Scheme (Parambikulam Project).
4. Periyar Hydro-Electric Scheme II Stage Extensions.

The works on the Mettur Tunnel Hydro-Electric Scheme were in good progress. Sri V. P. Appadurai, Chief Engineer for Electricity and Mr. A. T. Sreshta, Executive Engineer, went to Russia during November 1961 to discuss with Messrs. Machino Export, the suppliers of the machinery for the project and finalised the various outstanding issues. The Power House is programmed to be commissioned in 1963-64.

The works on the Kundah Hydro-Electric Scheme III Stage Extensions were in very good progress at the different sites. This involves the erection of three more Power Houses and extensions to the existing two Power Houses at Kundah. The Government of Canada having been impressed with the achievements in the execution of the first two stages of the Kundah Project were generous enough to extend their aid to an extent of 22 million dollars under the Colombo Plan by way of Plant and machinery for the third stage extension also. Sri V. P. Appadurai, Chief Engineer for Electricity, along with his Technical Assistant Sri C. Sanjeevi went to Canada during June 1961 to finalise the arrangements in connection with the designs of the project and the issue of specifications for the materials and equipments required for the scheme. It is expected that the new Power Houses will start functioning early in 1964.

The execution of Sandyanallah Reservoir Scheme designed to augment the generation of Pykara and Moyar Power Houses by about 54 million units per annum was taken up for execution late in the second Plan Period and the works were progressing satisfactorily. This is expected to be completed by March 1963.

The Periyar Hydro-Electric Scheme II Stage Extension which involves the creation of the fourth Penstock and installation of the fourth generator of 35 M.W. capacity in the existing power house was approved by the Planning Commission recently. The works at the Power House site were in different stages of progress. The generators and other associated equipments for this project are to be supplied from Yugoslavia under rupee payment.

The Annamalai Hydro-Electric Scheme (Parambikulam-Aliyar Project) envisages the construction of five Power stations with an installed capacity of 180,000 K.W. and costing about Rs. 1,022 lakhs for the power portion. The scheme was under scrutiny by the Planning Commission. It has since been sanctioned.

In the meantime the Central Water and Power Commission authorised the State Electricity Board to commence preliminary works relating to Sholayar Power House I and Sarkarpathy Power Stations with a total installed capacity of 100,000 K.W.

The Transmission and Distribution Project envisages the construction of extra high tension and high tension lines and associated sub-stations to transmit the additional power to the various load centres.

An important feature of the Transmission Scheme during the Third Plan period is the formation of the 230 K.V. super grid which will facilitate effective utilisation of power within the State and interchange of power between the neighbouring States.

During the year 4,935.704 miles (7,940.582 K.M.) of transmission and distribution lines were erected bringing the progressive total at the end of the year to 42,266.641 miles (68,021.232 K.M.). The details of voltages, etc., are given in Appendix 'K'.

The sub-stations Mettupalayam, Mettur Dam, Vickramasingapuram, Arasaradi, A. Therkur, Natham Valayapatti (Kunnur), Paramakudi, Gingee, Kodumudi, Vridhachalam, Ennore, Buckingham and Carnatic Mills and Integral Coach Factory were commissioned during the year.

One thousand four hundred and fourteen distribution transformers with an aggregate capacity of 107,662 K.V.A. were energised during the year bringing the total at the end of the year to 11,574 with capacity of 879,486 K.V.A. in the Board's area.

The particulars of power houses, sub-stations and distribution transformers with their capacities are given in Appendix 'L'.

Rural electrification continued to receive top-priority.

During the year 1,864 villages and hamlets were electrified by the Board in addition to 29 villages and hamlets electrified in licensees areas. The total number of towns, villages and hamlets having the benefits of electricity at the end of the year was 12,653.

22,387 agricultural pumpsets with a connected load of 76,007.080 K.W. were energised during the year besides 1,053 pumpsets with a connected load of 3,360.550 K.W. connected up in the licensees areas. The total number of pumpsets working on electricity at the end of the year was 140,601 with a connected load of 513,022.017 K.W.

With the above achievements at the end of the year, Madras State ranked first in India in Hydro-Electric development, in the use of electric power for irrigation purposes and by way of number of consumers. Madras State was third in generation and utilisation of power, Maharashtra and West Bengal leading. Madras State has built up an electricity grid extending into almost all the districts and rural areas with over 12,653 towns, villages and hamlets getting the benefits of electricity as on 31st March 1962.

The average daily grid generation during March 1962 was 80 lakhs compared to 68 lakhs per day during the corresponding period of 1961 thus recording an increase of 17.65 per cent. This phenomenal rise in grid consumption was largely due to large number of agricultural pumpsets working fully on account of the good availability of water in the wells and due to the several new industries all over the State.

Even after all the power schemes included in the Third Plan are implemented, Madras will still be in deficit of power as a large number of industries are contemplated during the Third Plan period two economical schemes within the State and the inter-State schemes have been taken up for investigation.

Investigation of Kodayar Hydro-Electric Scheme in Kanyakumari district with an installed capacity of 60,000 K.W. and costing about Rs. 6 crores was in progress.

Preliminary investigations of the Hogenakkal Hydro-Electric-cum-Flood-Moderation Scheme indicates that two power stations with an installed capacity of 800,000 K.W. would be located on the Cauvery River just above the Mettur Power Station. The scheme was estimated to cost Rs. 58 crores. Detailed investigations are to be taken up in consultation with the Government of Mysore.

Even granting that all these schemes are completed, Madras will still be in deficit of power and the logical solution to the problem is to establish a nuclear power station in Madras State. This has repeatedly been brought home to the Government of India and the Planning Commission. The Atomic Energy Commission appointed a High Power Committee for selection of site for a nuclear station in the Southern Zone. Two sites, chosen by the State Government were inspected by the committee. It is hoped that ultimately the Government of India will agree to the establishment of a nuclear station in Madras State to meet the ever increasing demand.

With the completion of all these schemes, the Electricity Board hopes to march ahead in the field of economic development of the Madras State by the spread of Electricity, especially to the rural areas and raise the standard of living of the common man and bring brightness and happiness to every home.

*Review of work of the Madras State Electricity Consultative Council for 1961-62.*—The Madras State Electricity Consultative Council was reconstituted by the State Government under section 16 of the Electricity (Supply) Act, 1948 with effect from 6th June 1961 with the following 10 members, in addition to the Chairman and Members of the Madras State Electricity Board who are ex-Officio Chairman and Members of the Consultative Council.

| Name or designation of members. |                                                                                                   | Interest represented.                               |
|---------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| 1                               | Sri K. N. Palaniswami Gounder, M.L.A., President, Chamber of Municipal Chairman, Madras State.    | Local Self-Government.                              |
| 2                               | Sri C. R. Ramaswami, President, Association of Electrical Undertakings, Southern India, Madras-1. | Electricity Supply Industry.                        |
| 3                               | Sri V. Pandurangiah, Madras .. .. .                                                               | Commerce.                                           |
| 4                               | The Chief Electrical Engineer, Southern Railway.                                                  | Transport.                                          |
| 5                               | Director of Agriculture, Government of Madras ..                                                  | Agriculture.                                        |
| 6                               | Sri R. Gopal, B.A., B.L., President, Mettur Civil Workers' Union, Mettur Dam.                     | Labour employed in the Electricity Supply Industry. |
| 7                               | Sri R. Krishnaswami Naidu, M.L.A. }                                                               | Consumers of electricity.                           |
| 8                               | Sri V. M. Surendram, M.L.O. and .. .. .                                                           |                                                     |
| 9                               | Sri Mohamed Razha Khan, M.L.O. }                                                                  |                                                     |
| 10                              | Sri R. Venkataswami Naidu, Managing Agent, Rathakrishna Mills, Ltd., Peelamedu, Coimbatore.       | Industry.                                           |

2. Five-meetings of the Madras State Electricity Consultative Council were held during the year 1961-62. The following were some of the subjects considered by the Consultative Council :

- (1) Progress of Power Schemes included in the Third Five-Year Plan.
- (2) Progress of collection of arrears of current consumption charges, special guarantee and annual minimum charges.
- (3) Installation of generating stations by private industrialists.
- (4) Foreign exchange availed in respect of the schemes approved by the Planning Commission.
- (5) Review of works executed by licensees from the loans granted by the Government for rural electrifications.
- (6) Annual Financial Statement for 1962-63 and the Supplementary Financial Statement for 1961-62.

3. The suggestions made by the Members of the Consultative Council were valuable and they received the careful consideration of the Board.

*Acknowledgment.*—The Board is grateful to the Government of Canada Messrs. Montreal Engineering Company, Montreal, Consulting Engineers to the Canadian Government for the Kundah Hydro-Electric Scheme, India Supply Mission, Washington, India Stores Department, London, U.S.S.R. Indian Embassy, Tokyo, Planning Commission, Government of India Central Water and Power Commission; Posts and Telegraphs Department, other Central authorities and the Government of Madras for their valued help during the year. The thanks of the Board are also due to the several contracting firms who assisted the Board in its various activities.

Appreciation for the hard and willing work put in by all the staff of the Board is also hereby recorded.

V. P. APPADURAI,  
Chairman.

## SECTION II—OPERATION OF THE SYSTEMS.

The Madras State Electricity Board generates all the power output in the State and distributes to the ultimate consumers over a widely extended net work. Majority of the large industrial concerns like textile mills, cement factories, steel rolling mills, chemicals, railways, workshops, tea factories, etc., get supply direct from the Board.

There are five municipal licensees and eight private licensees all of whom receive bulk power from the State Electricity Board and distribute in their respective jurisdiction.

The present Madras grid covers all the Districts of the State and comprises of seven hydro stations.

|                                | K.W.          |
|--------------------------------|---------------|
| Pykara .. .. .                 | 70,200        |
| Moyar .. .. .                  | 36,000        |
| Mettur .. .. .                 | 40,000        |
| Papanasam .. .. .              | 28,000        |
| Periyar .. .. .                | 105,000       |
| Kundah No. I .. .. .           | 40,000        |
| Kundah No. II .. .. .          | 140,000       |
| (Two thermal stations), viz :— |               |
| Madras .. .. .                 | 87,500        |
| Madurai .. .. .                | 14,000        |
|                                | <hr/> 560,700 |

16,714 miles (26,898 K.M.) of high tension lines, 25,553 miles (41,124 K.M.) of low tension lines, 151 extra high tension and high tension sub-stations and 11,574 distribution transformer stations.

The operation and maintenance of all the seven hydro-power stations and the thermal power station at Samayanallur are under the control of Superintending Engineer, Generation Circle with headquarters at Erode. The thermal station at Madras is under the control of a separate Superintending Engineer at Madras.

The erstwhile Papanasam System was bifurcated into two systems, viz., Madurai System and Tirunelveli System and the latter started functioning from 1st April 1961.

The transmission and distribution of power in the state were divided into seven regional units with headquarters at Coimbatore, Mettur, Madurai, Vellore, Tiruchirappalli, Tirunelveli and Madras.

There are five construction Superintending Engineers looking after the construction activities of the new major Projects, Transmission lines and sub-stations.

In addition, there are three Superintending Engineers directly under the control of Chief Engineer (*Electricity*) for engineering and design works on electrical, civil and investigation sides. These circles form the central designs organisation of the Board.

Power is the major enabling factor in the growth of large, medium and small-scale industries. Sustained efforts have been taken for the development of power in the earlier plans. The installed capacity which was 156,000 K.W. at the beginning of the First Plan increased to 256,000 K.W. at the end of that plan. Many new schemes such as the expansion of the thermal plant at Madras, the Periyar Project, Kundah Project, etc., were taken up in the Second Plan and the capacity was stepped up to 571,000 K.W.

During the year no new station or additional unit in existing station was brought into commission.

The power demand of the grid rose to 523 M.W. from 448 M.W. during last year. The total generation for the year was 2,524 million units.

Even with all the new generation of the last few years, the supply will not be adequate to meet the demand in full. The installed capacity of the grid is largely in hydro-electric stations which are heavily subject to the seasonal factor, being dependent on irrigation discharges. The dependable firm capacity all through the year is not much. The grid will not therefore be self-sufficient in power in spite of large outlays in the Second and Third Plans. The Board therefore has to allocate the use of the available power according to certain planned priorities between the different sectors of consumption such as industries, agriculture, domestic uses, etc. The power shortage can also be mitigated to some extent by linking the Madras grid with those of the neighbouring states of Kerala and Mysore to constitute a common Zonal Power grid. The Electricity Board has exhausted the most economical hydro-electric resources in the State and further development will have to be based on the hydro-electric potential of the western ghats with the co-operation of the neighbouring States. To meet the growing future demands on a permanent basis more than one atomic power station is essential and must be planned for.

The average per capita consumption of electricity has now risen to 62 units from 12 units in 1951. The gross revenue from the sale of power has risen from Rs. 3 crores in 1951 to Rs. 17.93 crores now and is expected to reach Rs. 40 crores in 1966. These figures illustrate the measure of advance so far achieved in the development of power.

The Board has been making rapid progress in rural electrification. As against 1813 towns and villages electrified at the beginning of the First Plan, 12,653 towns and villages have been covered by now. In the Third Plan the Board expects every village to have electricity. Electric pumpsets have increased from 14,000 in 1951 to 140,601 now.

Provision has been made in the Budget for 1961-62 for taking up the Mettur Tunnel Scheme and the final stages of the Kundah Project. Russian Aid has been promised for the Mettur Tunnel Scheme and the Canadian Government have offered to continue their aid for the final stages of Kundah Project.

**Restriction and Control.**—In view of the deteriorating power position in the Hydro-Electric Systems of the State on account of increased power consumption and depleted storages of Reservoirs, etc., and in order to meet the

power demand and consumption in the Hydro-Electric and Madras Electricity Systems, the following restrictions were imposed with effect from 16th May 1961, in addition to the existing peak load and staggering restrictions, etc., already in force :—

(i) A 50 per cent (fifty per cent) cut in consumption of electric energy on all industrial power supplies, both H.T. and L.T. and on supplies to commercial and non-commercial establishments consuming more than 1,000 units per month, in all the distribution systems, viz., Madras, Vellore, Mettur, Pykara, Tiruchirappalli, Madurai and Tirunelveli Systems fed from the Madras Grid including the areas of licensees and Municipalities taking bulk supply from the grid, with the modification that the cut will be limited to 40 per cent (forty per cent) in the Madras Electricity System.

(ii) All other supplies including agricultural domestic and essential services and supplies to tea factories, cement factories, rice mills, existing fertiliser factories at Ranipet and Avadi were exempted from power cut.

(iii) A ban on the connecting up of new loads for industrial and agricultural purposes was also enforced with effect from 16th May 1961.

With the improvement in the storage of water in the reservoirs, the power cut was reduced to 25 per cent in the Hydro-Electric Systems and 15 per cent in the Madras Electricity System with effect from 27th May 1961. The power cut and the ban on connecting up of new loads for industrial and agricultural purposes were completely removed in all areas in the grid with effect from 1st June 1961.

All existing high-tension consumers connected up prior to 1st June 1961 and having night supply only from 9 p.m. to 6 a.m. next day were permitted supply for additional day shift from 9 a.m. to 6 p.m.

Two shift high-tension consumers having supply from 10 p.m. and 6 a.m. next day and 11 a.m. to 6 p.m. during day time were permitted extended hours of supply as follows :—

Night Shift—9 p.m. to 6 a.m. next day.

Day Shift—9 a.m. to 6 p.m.

All additional loads sanctioned to three shift mills either under night supply or part day supply between 11 a.m. and 6 p.m. were given full supply except during evening peak load recess period.

All existing two shift Textile mills desirous of introducing a third shift were permitted supply to run the third shift subject to observance of evening peak load recess of 1½ hours between 7 p.m. and 8-30 p.m.

The grouping restriction on agricultural services were completely removed in the following taluks during the period :—

Harur, Hosur, Salem, Rasipuram, Namakkal, Omalur and Tiruchengode taluks in Salem district.

Sankarankoil, Nanguneri, Tirunelveli, Srivaikuntam, Tenkasi and Shenkottah taluks in Tirunelveli district.

Palladam and Dharapuram taluks in Coimbatore district.

Ponneri and Thiruttani taluks in Chingleput district.

Wandiwash taluk in North Arcot district.

Gingee taluk in South Arcot district.

Thirumayam, Alangudi and Kolathur taluks in Tiruchirappalli district.

Whole of Kanyakumari district.

The other restrictions, viz., evening peak load restriction on low tension industrial loads, grouping restriction on agricultural services in other areas and staggering of holidays to high tension consumers, etc., were being continued during the period.

*Power Stations.*—Details of demand, consumption, station peak and generation in each system for the year 1961-62 are furnished below :—

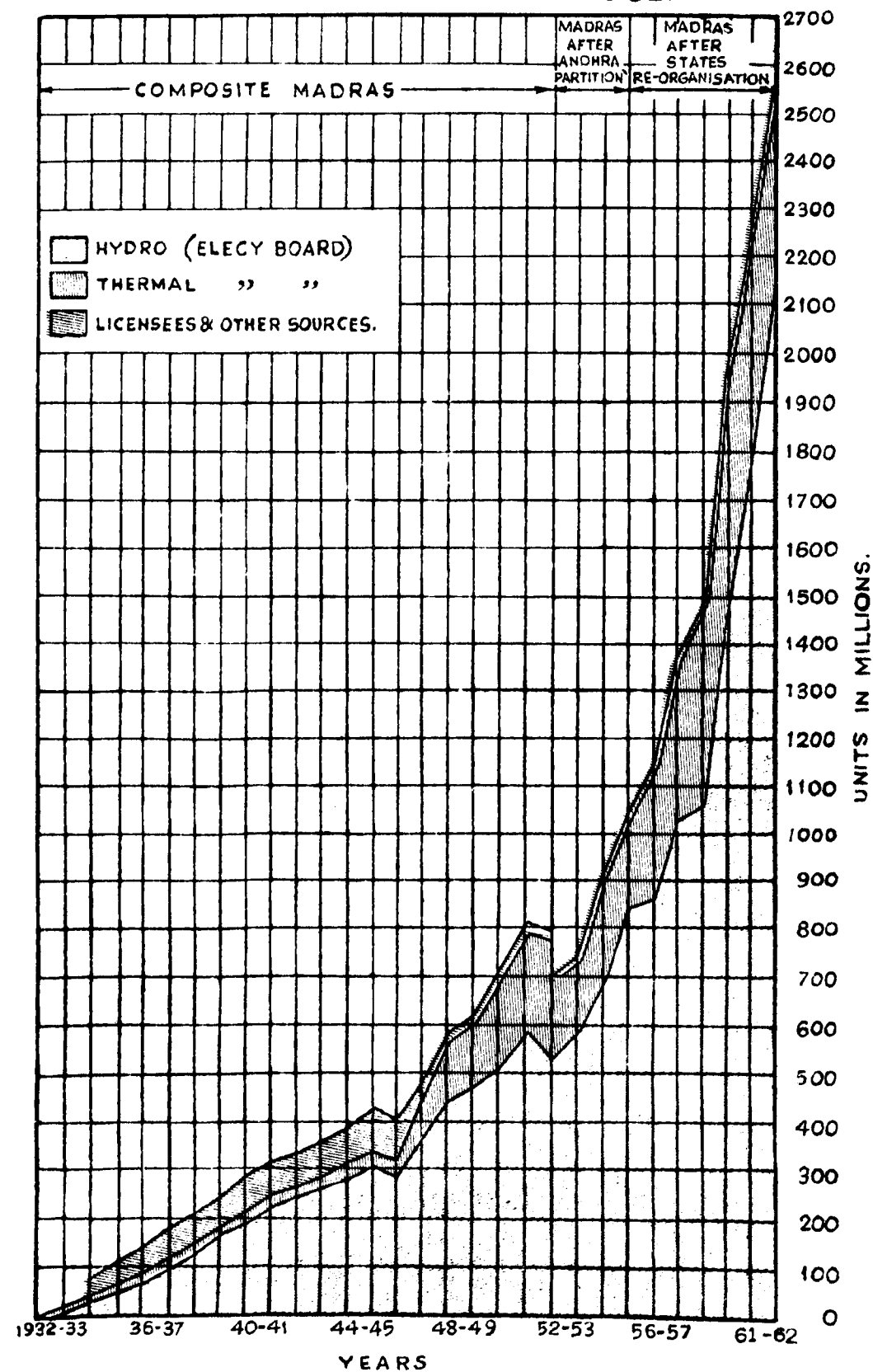
| Name of the system or power station. | Year of operation. | System demand in M.W. | Percentage of increase in demand over last year. | System consumption in million units. | Station demand in M.W. | Total generation in million units. |
|--------------------------------------|--------------------|-----------------------|--------------------------------------------------|--------------------------------------|------------------------|------------------------------------|
| Pykara system ..                     | Twenty-ninth ..    | 151.15                | 10.24                                            | 461.927                              | 69.0                   | 404.880                            |
| Moyar station ..                     | Tenth ..           | ..                    | ..                                               | ..                                   | 39.0                   | 174.078                            |
| Mettur system ..                     | Twenty-fifth ..    | 201.15                | 25.91                                            | 245.241                              | 41.6                   | 258.161                            |
| Papanasam power House.               | Eighteenth ..      | 92.10                 | 22.81                                            | ..                                   | 28.0                   | 165.196                            |
| Periyar station ..                   | Fourth ..          | ..                    | ..                                               | ..                                   | 105.0                  | 668.220                            |
| Kundah Power House I.                | Third ..           | ..                    | ..                                               | ..                                   | 46.0                   | 76.497                             |
| Kundah Power House II.               | Second ..          | ..                    | ..                                               | ..                                   | 160.0                  | 370.790                            |
| Samayanallur Power House.            | Twelfth ..         | ..                    | ..                                               | ..                                   | 12.5                   | 51.389                             |
| Madras system, A, B and C stations.  | Fourteenth ..      | 78.45                 | 3.26                                             | 350.982                              | 16.0<br>28.0<br>27.8   | 354.600                            |
| Madurai system ..                    | First ..           | ..                    | ..                                               | 196.088                              | ..                     | ..                                 |
| Vellore system ..                    | Fifth ..           | ..                    | ..                                               | 175.846                              | ..                     | ..                                 |
| Tiruchirappalli system.              | Third ..           | ..                    | ..                                               | 341.877                              | ..                     | ..                                 |
| Tirunelveli system                   | First ..           | ..                    | ..                                               | 271.696                              | ..                     | ..                                 |
|                                      |                    | 522.85                | 16.47                                            | 2,044.607                            | ..                     | 2,523.811                          |

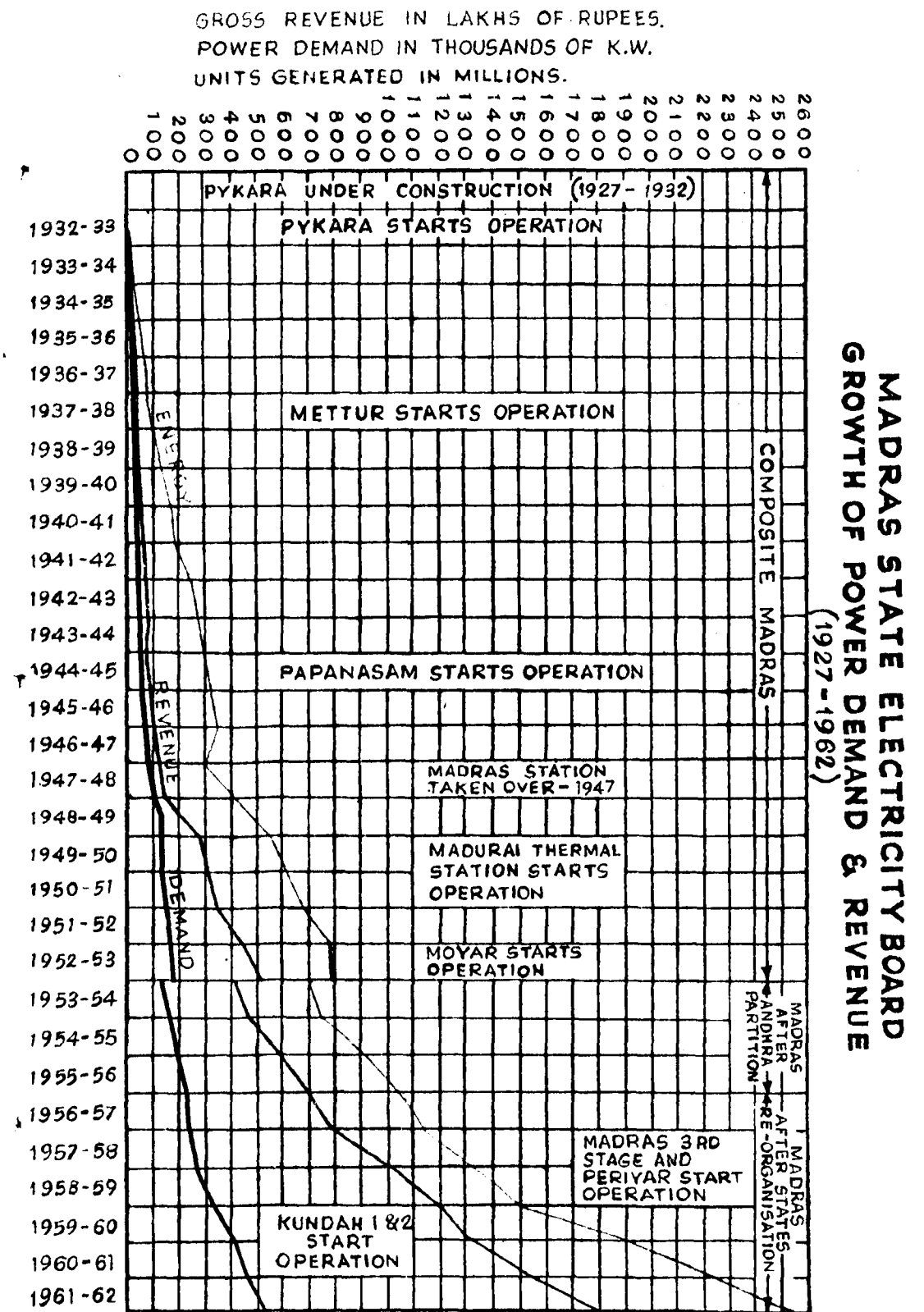
The total consumption, the units sold during the year was 2044.607 million units as against the total generation of 2,523.811 million units which works out to 17.8 per cent under line and transformer losses.

The graphs showing the hydro and thermal power generated, gross revenue, power demand and units generated in Madras State from 1932-33 to 1961-62 face this page.

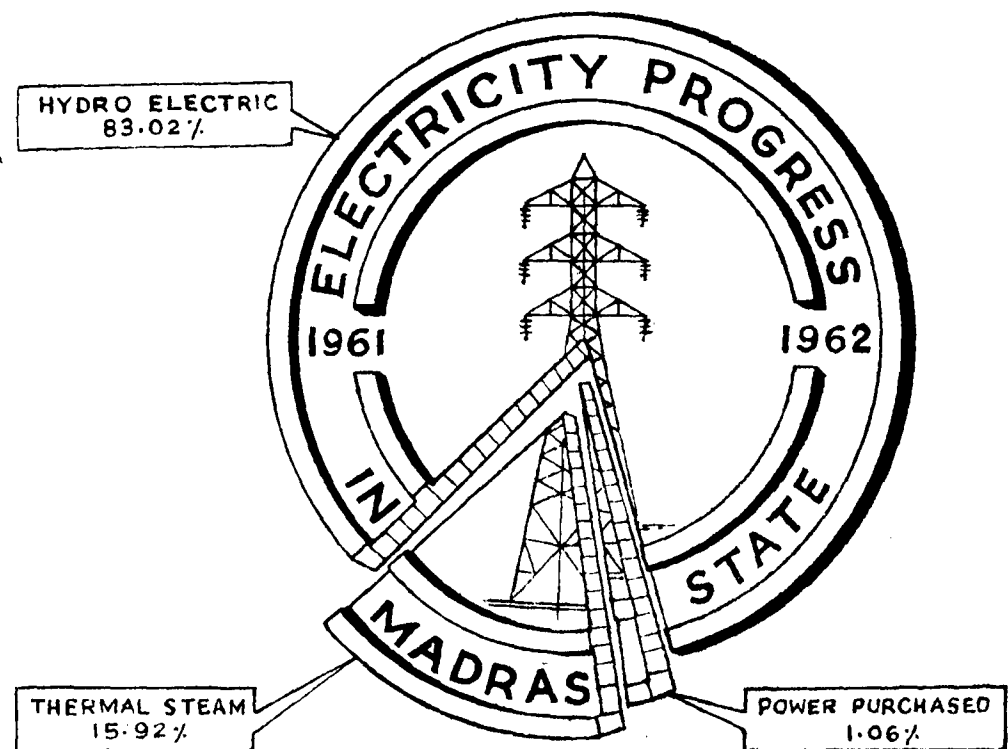
Two charts showing generation of power and utilisation during the year are on the opposite page. Of the total power generated 84 per cent was from water power and the balance from coal.

## HYDRO & THERMAL POWER GENERATED IN MADRAS STATE 1932-1962.

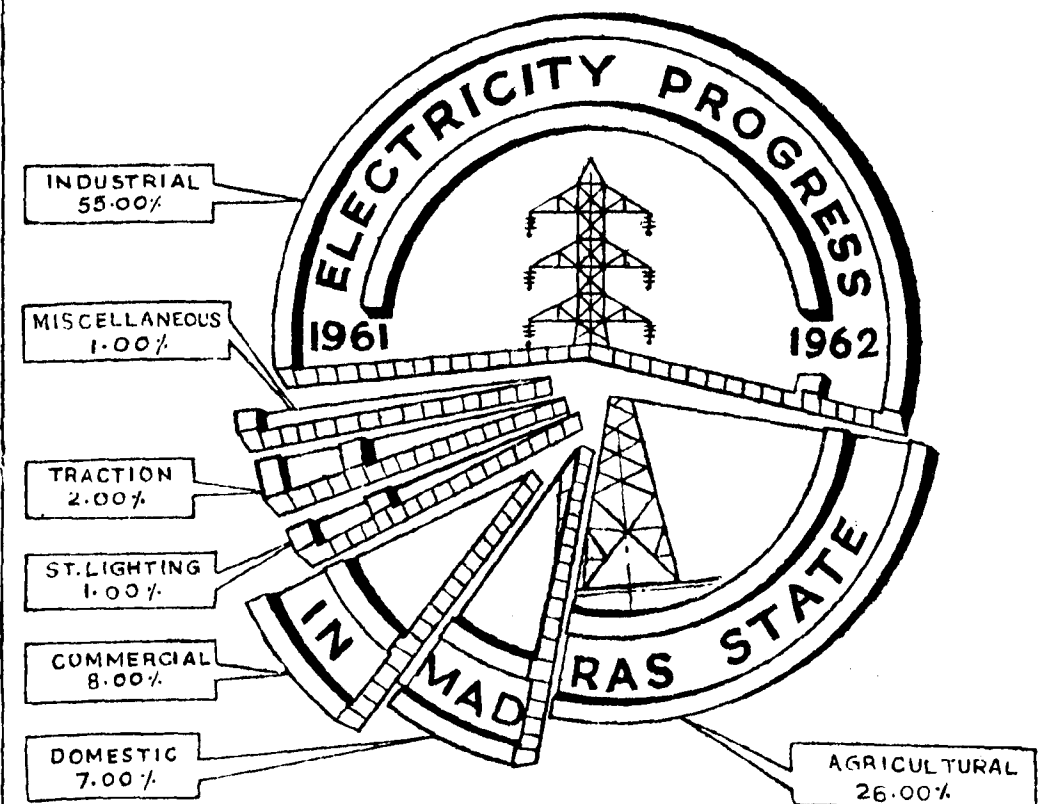




## GENERATION 1961-62



## UTILISATION 1961-62



The supply position of coal to both the thermal stations was fairly satisfactory. The receipt and issues of coal during the year were as follows :—

| (1)                          | Station.<br>(2) | Receipt and issues in tonnes.<br>(3) (4) |          |
|------------------------------|-----------------|------------------------------------------|----------|
| Singareni Collieries .. .. . | Madurai         | 46,372                                   | 47,638   |
|                              | Madras          | 2,18,149                                 | 2,15,227 |
| Madhya Pradesh .. .. .       | Madurai         | 26,831                                   | 14,056   |
|                              | Madras          | 34,315                                   | 48,578   |
| Bengal .. .. .               | Madras          | 42,339                                   | 42,272   |
| Total .. .. .                |                 | 3,68,006                                 | 3,67,771 |

*Transmission lines.*—The length of transmission and distribution net work increased by 1,478 miles (2,375 K.M.) of high-tension lines and 3,458 miles (5,566 K.M.) of low-tension lines during the year bringing the total at the end of the year to 16,714 miles (26,898 K.M.) of high-tension and 25,553 miles (41,124 K.M.) of low tension lines as detailed below.

| Name of the system<br>or circle.<br>(1) | Length of lines |                         |               |                         |
|-----------------------------------------|-----------------|-------------------------|---------------|-------------------------|
|                                         | High Tension.   |                         | Low Tension.  |                         |
|                                         | Miles.<br>(2)   | Kilo-<br>meters.<br>(3) | Miles.<br>(4) | Kilo-<br>meters.<br>(5) |
| Pykara .. .. .                          | 2,158.724       | 3,474.286               | 3,933.046     | 6,330.553               |
| Mettur .. .. .                          | 2,680.330       | 4,313.770               | 5,689.780     | 9,157.760               |
| Madurai .. .. .                         | 2,324.781       | 3,742.260               | 3,412.213     | 5,492.300               |
| Vellore .. .. .                         | 4,133.814       | 6,651.983               | 5,492.358     | 8,838.203               |
| Tiruchirappalli .. .. .                 | 2,185.893       | 3,518.415               | 2,545.482     | 4,096.581               |
| Tirunelveli .. .. .                     | 1,698.209       | 2,732.384               | 2,509.075     | 4,037.102               |
| Madras .. .. .                          | 901.847         | 1,451.072               | 1,914.432     | 3,080.321               |
| Generation Circle, Erode .. .. .        | 590.450         | 950.129                 | 19.750        | 31.783                  |
| Kandah Circle .. .. .                   | 39.594          | 63.350                  | 36.863        | 58.980                  |
| Total .. .. .                           | 16,713.642      | 26,897.649              | 25,552.999    | 41,123.583              |

The storage position in all the hydro reservoirs was not very satisfactory at the commencement of the year. Due to spell of good rains during August and September 1961 the inflows into the reservoirs improved. The North East monsoon was active during November and December 1961 which contributed for good storage position in the reservoirs. Due to poor inflows in the last quarter of the year the storage position was not generally satisfactory.

All the hydro generating stations continued to run in parallel with Basin Bridge thermal station. The Samayanallur Thermal Station was shut down from 27th June to 30th September 1961, due to improved water position in the hydro reservoirs. The station was again shut-down from 27th October to 26th November 1961 and continued to be in service giving relief to the hydros.

The following are some of the important works carried out in the generating stations.

The annual overhaul of machines, valves general cleaning of stator coils and overhaul of transformer cooler and bearing oil pumps were carried out in Pykara station.

Modification works on 110 K.V.O.C.Bs. of power transformers in Pykara Station to increase their rupturing capacity from 750 M.V.A. to 1,500 M.V.A. were carried out during the year.

In Moyar Station the annual overhaul of machines were carried out.

The runner released from machine No. 3 was reconditioned at United Kingdom and refitted on machine No. 1 on 28th July 1961.

Rationalisation work on unit 1 and 3 has been completed and the erstwhile station transformer 1 and 2 were connected to units 1 and 3 and commissioned satisfactorily.

All the four units in Mettur P.H. were overhauled. The machines 3 and 4 were converted to unit system of operation.

Machines 3 and 4 were shut-down for installing mulsifyre pump section stilling chamber in the tail race. The mulsifyre protection system was commissioned.

Two 110 KV/22 K.V. direct step down transformers were commissioned for the 22 K.V. load releasing the 66/22 K.V. 2 M.V.A. transformers thus increasing the 66 K.V. load capacity of the Erode station.

In Papanasam P.H., the annual overhaul of all the four machines and their auxiliaries, etc., were carried out. Routine overhaul of all 11 K.V. and 66 K.V. O.C.Bs. was done as per schedule. Dielectric absorption test was carried out on the stator coils of all machines and transformers.

Cooling water pump was shifted and serviced at the newly constructed pump house.

The butterfly valve dashpot and air valve dashpot of the four units were overhauled and renewed with fresh oil.

Maintenance works on all the three machines in Periyar Station were completed by A.E.G. Engineers. Examination, overhaul and repairs to stator, rotor, bearings, coolers, etc., were done. Defects in the turbines of units 1 and 2 were attended to by an Erection Engineer deputed by Messrs. Voith.

The shaft protection sleeve and the carbon gland rings for the stuffing box in machine No. 3 were renewed.

During the shutdown period of the station the 110 K.V. top bus was thoroughly checked and cleaned.

In Samayanallur P.H., the 4 M.W. turbo set and auxiliaries and all auxiliaries of the 10 M.W. turbine were overhauled. The coal elevator unit, two turbine feed pumps and one electro feed pump and the five boilers were completely overhauled during the course of the year.

The existing perforated type spray nozzles were replaced by an improved volute type of nozzles in 4 M.W. cooling pond.

The main exciter of the 10 M.W. set failed on 27th May 1961 was replaced by a new spare unit. The defective unit has been sent to Basin Bridge Power House for rewinding.

Major maintenance works were carried out on both the machines in Kundah P.H.I.

New oil flow regulator received from Canada were fixed on machines I and II.

Modification and rewiring of control circuit of compressor 1 and 3 were done.

Some deep scratches noticed on the main exciter commutator were cleared and polished by smooth sand paper.

All the generators in Kundah P.H. 11 were cleaned with compressed air. The second unit tripped on station temperature relay device 49 G on 28th November 1961 and again on 29th November 1961 during trial run. The defect was traced to the high resistance contact of the plug of the relay which was subsequently rectified.

The relays of other three units also were checked and high resistance in units 1 and 3 relays were rectified.

**Basin Bridge Power House.**—The 6,000 K.W. T.A. set and the 5,000 K.W. T.A. set in 'A' station were removed from service and as they have served over fifty years and are unfit for any useful service now to facilitate civil works connected with the erection of additional 150,000 lbs./hr. boiler.

The 15,000 K.W. T.A. set was kept shut down to facilitate pile foundation works for the new boiler.

The 30,000 K.W. T.A. set was taken up for overhaul and replacement of steam rotor in June 1961 and the set was put back into satisfactory commercial service by the middle of October 1961. The damaged rotor is being despatched to West-Germany for repairs and return.

**Distribution Systems.**—The following are some of the major works carried out in the distribution systems :—

**Pykara Electricity System.**—Two 10 M.V.A. 110/22 K.V. transformers were erected and commissioned in Coimbatore Receiving Station.

One 10 M.V.A. 110/22 K.V. transformer was commissioned into service in place of 5 M.V.A. unit at Mettupalayam sub-station.

At Pollachi S.S. two 5 M.V.A. tra. 66/22 K.V. were erected and commissioned into service in place of 3 M.V.A. and 2.5 M.V.A. transformers.

22 K.V. kiosks were erected and commissioned to control the Ambarampalayam and Pollachi-Coimbatore feeders.

**Mettur Electricity System.**—One 10 M.V.A. 110/22 K.V. I.G.F. transformer with its 22 K.V.—500 M.V.A. Reyrolles OCB for the L.T. control was commissioned into service at Salem sub-station.

One 500 M.V.A. Reyrolles OCB was erected and commissioned into service for the control of Erode 22 K.V. feeder at Salem sub-station.

Two 66/33/11 K.V. 5 M.V.A. toshiba transformers were commissioned into service at Somanur sub-station.

One Oerlikor 22 K.V. O.C.B. (500 M.V.A. rupturing capacity) was commissioned into service at Namakkal sub-station to control Namakkal load and Mohanur 22 K.V. feeder.

One Alsthom 250 M.V.A. 22 K.V. O.C.B. was commissioned into service at Attur sub-station.

**Madurai Electricity System.**—One set of 66 K.V. lightning arrester was erected on the transformer bus at Tirumangalam sub-station.

The deviation work of 33 K.V. line within Samayanallur P.H. was completed.

Two 25 K.V.A.R. capacitors have been installed at Kallupatti and Thummanaickenpatti.

A new 22 K.V. metering set was installed at Periyar P.H. for metering purposes.

Badly chipped and flashed over insulators were changed by hot line crew in 15 locations of the 110 K.V. Theni-Trichy, Theni-Madurai, Periyar-Theni and 22 K.V. feeders of the Theni sub-station.

*Vellore Electricity System.*—One bank of 2000 K.V.A.R., 11 K.V. shunt capacitors were commissioned at Arkonam sub-station.

Three 2,000 K.V.A. 66/33-11 K.V. transformers were commissioned at Thiruvannamalai sub-section replacing the existing three 1,000 K.V.A. transformers.

The second 7.5 M.V.A. 110/33 K.V. transformer was commissioned at Acharapakkam sub-station.

Two 2 M.V.A. transformers were commissioned at Wallajabad in place of the existing two 1000 K.V.A. transformers.

Supply to Andhra Government at Kuppam point was resumed on 12th July 1961.

Gingee 33/11 K.V. sub-station was commissioned with two 500 K.V.A. transformers.

*Tiruchirappalli Electricity System.*—The second and third 10 M.V.A. Power transformers were energised at Neyveli 110/33 K.V. sub-station.

One 22 K.V. O.C.B. of Keyrolle England make was energised at Villupuram sub-station.

One metering set (22 K.V. 110 K.V.) was energised at Vridachalam to give H.T. supply to Government ceramic centre.

The second 2000 K.V.A. 33/11 K.V. Transformer was energised at Kurinjipadi.

One 1000 K.V.A. Power transformer was energised at Viralimalai sub-station. The Kodumudi sub-station was commissioned on 12th August 1961.

One 2 M.V.A. Power transformer was commissioned on 22 K.V. side at Tiruchirappalli sub-station.

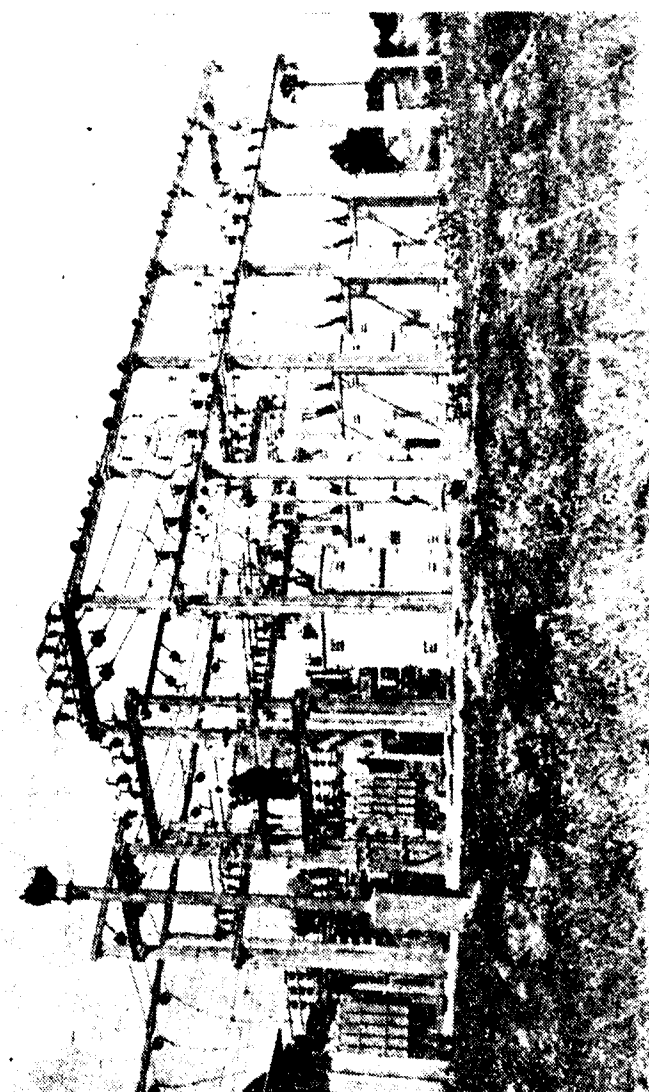
*Tirunelveli Electricity System.*—The Vickaramasingapuram 66/11 K.V. sub-station with three 3 M.V.A. transformers was energised during the year.

The third 1000 K.V.A. Power transformer was commissioned at Sankarankoil sub-station.

The existing 11 K.V. bus coupler A.B. switch was replaced with higher capacity at Kovilpatti.

Four 66 K.V. Single phase C.T's. and one set of 66 K.V. P.T.'s wire erected on the two 66 K.V. incoming lines from Trivandrum at Thuckalay sub-station.

Kanyakumari district continued to avail Kerala supply at Thuckalay Point to an extent of 3900 K.V.A.



Vickramasingapuram 66 kv./11 kv S.S. with R.C.C. Poles (Precast) the 11 kv feeder bay with kiosks.

The Kerala State continued to take power at Uppatti to an extent of 10,650 K.V.A. and at Palghat and Nilambur to an extent of 1875 K.V.A. and 200 K.W. respectively. The supply at Nilambur was discontinued from 9th July 1961.

The three 5 M.V.A. Power transformers on the 11 K.V. side of Talayuthu 66 K.V. sub-station were replaced by three 10 M.V.A. each for feeding the 11 K.V. loads.

The newly erected 11 K.V. linking line from Vickramasingapuram sub-station to the existing Ambasamudram 11 K.V. feeder has been energised and the loads transferred to the new Sub-station.

*Madras Electricity System.*—The 110 K.V. line from Korattur to Ennore was commissioned during the year.

The Ennore 110 K.V. sub-station with three 10 M.V.A. 110/33/11 K.V. transformers was commissioned for feeding the loads of Tondiarpet, Ennore, Ponneri and Sembium 33 K.V. sub-stations. The 33 K.V. Ennore, Ponneri line was energised during the year.

The third 10 M.V.A. 110/33/11 K.V. power transformer at Trivellore sub-station was also commissioned.

The 33 K.V. sub-station at Integral Coach Factory and Buckingham and Carnatic Mills were commissioned during the year.

Due to increase in load additional transformers were erected in Adayar, Guduvancheri and Trivellore.

Three 5000 K.V.A. 33/11-5 K.V. transformers were erected at Mount Road, Kilpauk and Integral Coach Factory sub-stations to relieve the direct 5 K.V. loads fed off Basin Bridge P.H.

The programme of Change over of services from D.C. to A.C. was continued, 486 D.C. services with C.L. of 521.51 K.W. were changed over to A.C. during the year.

The lines sub-division with head-quarters at Korattur was formed on 17th May 1961 for maintaining the extra high tension and high tension lines and to carry out the Hot line works of the extra high tension lines of the Board.

*Interruptions and breakdowns.*—During the year a few breakdowns occurred on main transmission lines of the Board, as detailed below :—

| Name of the system.     | Voltage of lines. |         |          |          |
|-------------------------|-------------------|---------|----------|----------|
|                         | 33 K.V.           | 66 K.V. | 110 K.V. | 230 K.V. |
| (1)                     | (2)               | (3)     | (4)      | (5)      |
| Pykara .. .. .          | —                 | 3       | 3        | ..       |
| Mettur .. .. .          | 6                 | —       | 1        | ..       |
| Madurai .. .. .         | 1                 | 3       | ..       | ..       |
| Vellore .. .. .         | 9                 | ..      | ..       | ..       |
| Tiruchirappalli .. .. . | ..                | 2       | 1        | ..       |
| Tinneveli .. .. .       | 1                 | 5       | ..       | ..       |
| Madras .. .. .          | 3                 | ..      | 1        | 1        |
| Total ..                | 20                | 13      | 6        | 1        |

## SECTION III--FINANCE.

The Capital Expenditure incurred during 1961-62 amounted to Rs. 1,788.34 lakhs.

The Capital Outlay on Schemes in Operation to end of March 1962 was Rs. 10,081.88 lakhs excluding suspense and 112,26.91 lakhs including suspense.

The Gross and excess revenue over expenditure earned during the year were Rs. 1,793.13 lakhs and Rs. 849.57 lakhs, respectively. The excess revenue over expenditure does not take into account the interest on loans, headquarters expenditure, etc. The return on operation capital worked out to 17.8 per cent gross and 8.4 per cent net. The net surplus after meeting interest and other charges is Rs. 167.19 lakhs which works out to 1.7 per cent on operation capital.

The Accounts Branch handled cash receipts of Rs. 1,860 lakhs and cash payment of Rs. 2,052 lakhs during the year. In addition, payments to the extent of about Rs. 375 lakhs made by other adjustments and agencies like India Stores Department, High Commissioner for India, London, etc., were watched and adjusted.

Stores receipts amounted to Rs. 2,931.59 lakhs and issues amounted to Rs. 2,714.03 lakhs. 7,920 contractors' bills amounting to Rs. 378.65 lakhs and 30,018 suppliers' bills amounting to Rs. 1,085.96 lakhs were checked and payments made during the year.

The following table gives the approximate financial position of the Board as on 31st March 1962 :—

|                                                  | RUPEES<br>IN<br>LAKHS. |                                   | RUPEES<br>IN<br>LAKHS. |
|--------------------------------------------------|------------------------|-----------------------------------|------------------------|
| Fixed assets in operation ..                     | 10,081                 | Loan from State Government ..     | 11,939                 |
| Fixed assets under construction.                 | 3,772                  | Government suspense .. ..         | 852                    |
| Service connection .. ..                         | 132                    | Open Market loan .. ..            | 766                    |
| Stores (including Canadian stores).              | 1,051                  | Depreciation and Special Reserve. | 2,083                  |
| Advance payment of suppliers ..                  | 424                    | Amount payable to suppliers ..    | 357                    |
| Accounts receivable from consumers.              | 169                    | Amount payable to others ..       | —                      |
| Other items .. ..                                | 93                     | Reserve for bad debts .. ..       | 29                     |
| Investments from Reserves ..                     | 709                    | Pension fund .. ..                | 42                     |
| Inter-departmental transfers pending adjustment. | 15                     | Loan Redemption Fund .. ..        | 189                    |
| Cash .. ..                                       | 17                     | Net surplus * .. ..               | * 209                  |
| <b>Total ..</b>                                  | <b>16,466</b>          | <b>Total ..</b>                   | <b>16,466</b>          |

\* This should not be deemed as giving the final position as some adjustments to revenue have to be made in the Annual Accounts of the Board.

**Expenditure on Capital Works.**—The Budget provision for 1961-62 was Rs. 17.46 crores. The expenditure incurred to end of March 1962, Second Supplemental Works was to Rs. 17.88 crores.

The table below gives the details of provision for the Third Five-Year Plan, actual expenditure for the year 1961-62 and the Budget allotment for the year 1962-63 :—

|                                                        | Third Plan provision. | Revised Budget Estimate for 1961-62. | Actual Expenditure for 1961-62. | Budget Provision for 1962-63. |
|--------------------------------------------------------|-----------------------|--------------------------------------|---------------------------------|-------------------------------|
|                                                        | (1)                   | (2)                                  | (3)                             | (4)                           |
|                                                        | RUPEES IN LAKHS.      |                                      | RUPEES IN LAKHS.                |                               |
| <b>Continuing schemes—</b>                             |                       |                                      |                                 |                               |
| Periyar Hydro-Electric Scheme—I Stage ..               | 12.00                 | 7.89                                 | 6.78                            | 1.14                          |
| Kundah Hydro-Electric Scheme—I and II Stages           | 277.00                | 65.84                                | 55.78                           | 81.69                         |
| Sandynallah Reservoir Scheme .. ..                     | 30.00                 | 32.79                                | 24.50                           | 51.38                         |
| <b>New schemes—</b>                                    |                       |                                      |                                 |                               |
| Mettur Tunnel Hydro-Electric Scheme—1 Stage            | 552.00                | 154.54                               | 118.06                          | 250.00                        |
| Kundah Hydro-Electric Scheme—III Stage ..              | 2,306.00              | 295.18                               | 301.50                          | 526.90                        |
| Periyar Hydro-Electric Scheme—II Stage ..              | 94.00                 | 3.38                                 | 2.14                            | 30.00                         |
| Anamalai Hydro-Electric Scheme (Parambikulam Project). | 500.00                | 1.85                                 | 0.70                            | 45.00                         |
| Transmission and Distribution Project ..               | 3,028.00              | 498.40                               | 607.70                          | 387.53                        |
| Rural electrification .. ..                            | 3,000.00              | 728.83                               | 671.18                          | 447.26                        |
| Investigation of new schemes .. ..                     | 20.00                 | 6.30                                 | 4.91                            | 4.10                          |
|                                                        | 9,819.00              | 1,795.00                             | 1,793.25                        | 1,825.00                      |

The details of revenue and working expenses during 1961-62 were as under :—

| Working expenses.                                                           | RUPEES IN LAKHS. | Gross receipts.                | RUPEES IN LAKHS. |
|-----------------------------------------------------------------------------|------------------|--------------------------------|------------------|
| To Generation .. ..                                                         | 290.64           | By domestic light and power.   | 268.16           |
| „ Transmission .. ..                                                        | 16.17            | „ Commercial light and power.  | 191.37           |
| „ Distribution .. ..                                                        | 99.24            | „ Street lights .. ..          | 47.89            |
| „ Commercial .. ..                                                          | 16.76            | „ Industrial .. ..             | 551.98           |
| „ Cost of power purchased ..                                                | 15.50            | „ Agricultural .. ..           | 324.53           |
| „ Administration and general charges.                                       | 172.45           | „ Traction including Railways. | 35.47            |
| „ Contribution to Reserve Funds including interest on accumulated balances. | 332.80           | „ Bulk supply to licensees.    | 156.33           |
| „ Excess receipt over expenditure.                                          | 849.57           | „ Government Departments.      | 68.64            |
|                                                                             |                  | „ Miscellaneous Sales ..       | 59.44            |

1,703.86

| Working expenses.                              | RUPEES IN<br>LAKHS. | Gross receipts.                    | RUPEES IN<br>LAKHS. |
|------------------------------------------------|---------------------|------------------------------------|---------------------|
|                                                |                     | By Miscellaneous Revenue           | 63.84               |
|                                                |                     | „ Interest on securities ..        | 25.42               |
| Grand total ..                                 | 1,793.12            | Grand total ..                     | 1,793.12            |
| To interest on Government loans ..             | 577.96              | By Excess income over expenditure. | 849.57              |
| (f) Administration and Miscellaneous expenses. | 8.86                | „ Other receipt, Head-quarters.    | 0.03                |
| Interest on Board's bond ..                    | 23.92               |                                    |                     |
| Management of debt and other charges.          | 1.69                |                                    |                     |
| Loan Redemption Fund .. ..                     | 69.98               |                                    |                     |
| Net surplus .. .. .                            | 167.19              |                                    |                     |
| Total ..                                       | 849.60              | Total ..                           | 849.60              |

NOTE.—The above figures should not be construed as giving the final net surplus of the Board as per the final accounts to be audited and made available to the public, since some adjustments to the revenue have not been made.

Comparative statements of the elements of operation and maintenance expenses of the Board in respect of units generated and revenue earned are given in separate statements, *vide* Appendices C-1 to C-3.

Formation of Revenue units.—Separate Revenue units were formed in the following places during the year and they were working independently under the control of Deputy Chief Accountants :—

- 1 Pollachi in Pykara Electricity System.
- 2 Namakkal in Mettur Electricity System.
- 3 Arni in Vellore Electricity System.
- 4 Sholinghur in Vellore Electricity System.
- 5 Cuddalore in Trichy Electricity System.

Audit.—The monthly accounts of construction circles and operating systems were reviewed on the due dates. Audit notes of the Accountant-General disclosed objections mainly under :—

- 1 Excess over estimates.
- 2 Want of estimates.
- 3 Want of stamped acknowledgment.

Systematic action was taken to clear these items by enforcing special progress reports. The Residential Concurrent Audit was functioning in all the systems and circles. In addition to these Residential Audit units, an Internal Audit Unit formed on an experimental basis was also functioning at the Vellore Electricity System.

Stores.—There were 89 stores (13 central and 76 sub-stores) with materials worth Rs. 1,054.71 lakhs. The stores were verified by independent stock-verifiers. A statement showing the reserve limit of stock in each system/circle and the actuals are given below :—

| Serial number and name of the system or circle. | Number of central stores. | Number of sub-stores. | Reserve limit of stock (in lakhs). | Actuals as on 31st March 1962 (in lakhs of rupees). |
|-------------------------------------------------|---------------------------|-----------------------|------------------------------------|-----------------------------------------------------|
| (1)                                             | (2)                       | (3)                   | (4)                                | (5)                                                 |
| 1 Pykara .. .. .                                | 1                         | 4                     | 115                                | 76.61                                               |
| 2 Mettur .. .. .                                | 1                         | 8                     | 152                                | 149.00                                              |
| 3 Vellore .. .. .                               | 1                         | 13                    | 104                                | 91.73                                               |
| 4 Tiruchirappalli .. .. .                       | 1                         | 6                     | 108                                | 79.65                                               |
| 5 Madurai .. .. .                               | 1                         | 10                    | 62.40                              | 83.25                                               |
| 6 Tirunelveli .. .. .                           | 1                         | 6                     | 41.60                              | 41.26                                               |
| 7 Generation, Erode .. .. .                     | ..                        | 7                     | 83                                 | 64.65                                               |
| 8 Madras (Distribution) .. .. .                 | 1                         | 10                    | 150                                | 99.05                                               |
| 9 Madras (Generation) .. .. .                   | 1                         | ..                    | 72                                 | 83.74                                               |
| 10 General Construction, Tiruchy.               | 1                         | 7                     | 70                                 | 198.62                                              |
| 11 Sandynallah .. .. .                          | 1                         | 1                     | 28                                 | 13.47                                               |
| 12 Kundah .. .. .                               | 1                         | 4                     | 40                                 | 43.74                                               |
| 13 Emerald .. .. .                              | 1                         | ..                    | 10                                 | 7.71                                                |
| 14 Mettur Tunnel Scheme .. .. .                 | 1                         | ..                    | 8                                  | 22.23                                               |
| Total ..                                        | 13                        | 76                    | 1,044.00                           | 1,054.71                                            |

## SECTION IV—ENGINEERING AND CONSTRUCTION.

## 1. KUNDAB HYDRO-ELECTRIC SCHEME.

Location—Power House 1 at Kundapalam about 20 miles (32.18 km.) from Ootacamund in Nilgiris district.

Power House II on the left bank of Pegumbahalla at about 26 miles (41.8 km.) from Ootacamund in Nilgiris district.

## Installed capacity—

Power House I—Initial 40,000 KW.

Ultimate 60,000 KW.

Gross Head ... 1,180 feet (360 metres).

Power House II—Initial 140,000 KW.

Ultimate 175,000 KW.

Gross Head ... 2,470 feet (754 metres).

*In service schedule.*—First unit in plant I by 1959-60 and the scheme in all respects by 1960-61.

*Headworks and power station.*—The two power stations included in the scheme with an installed capacity of 180,000 KW were completed during the Second Plan period ended 1960-61.

The scheme was completed in a record time of a little over 3½ years, which was mainly due to the generous assistance of making available materials and machinery costing above 25 million dollars to the Board under Colombo Plan by the Government of Canada.

Building of the Upper Bhavani Dam and the construction of the tunnel which will convey the water stored at Upper Bhavani to the Avalanche-Emerald reservoirs, are the balance of works.

About 5,068 feet (1,545 metres) of mining out of a total of 8,900 feet (2,713 metres) of tunnel was completed.

2,519 feet (768 metres) of invert concreting was completed.

21,608 units of masonry were built so far at Upper Bhavani dam out of a total quantity of 150,000 units.

In the intake R.C.C. duct. 150 feet (46 metres) of a total of 1,020 feet (311 metres) was completed.

## 2. SANDYNALLAH RESERVOIR SCHEME.

This scheme is to augment generation at Pykara Power House by storing additional water in another reservoir and pumping the water to Pykara Reservoir whenever required.

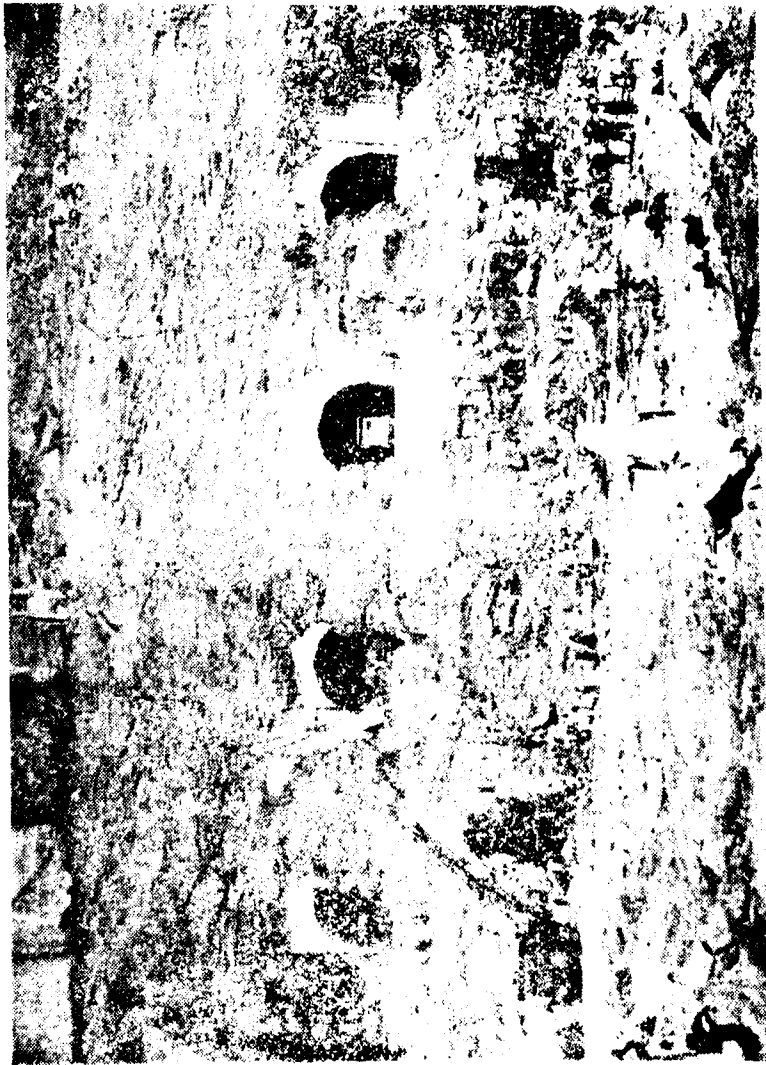
The scheme involves the building of a dam across the Sandynallah stream a distance of six miles (9.65 Km.) from Ootacamund on the Ootacamund-Mysore Road to form a reservoir and to divert the water into the Pykara



UPPER BHAVANI DAM.—View from upstream rear Ch. 900. The front masonry face between Ch. 750 to 950.



SANDYNALLAH DAM.—View from upstream side river bed. Note construction of left side retaining wall masonry at bottom.



View showing the four penstock tunnel faces and the machine foundation pits 1 to 4 etc in Mettur Tunnel Scheme.

Reservoir. The diversion will be by pumping the water into the pumping main, discharging into an open flume, leading into a natural stream flowing into the Pykara reservoir. The object is to increase generation of power in the existing Singara and Moyar Power stations. The new reservoir will have a gross capacity of 716 M.C. feet. A pump-house will be erected and the water stores be pumped into a flume channel for diversion to Pykara basin. This has been found more economical than diverting the water storage through a tunnel as originally envisaged. The scheme on completion will enable additional generation to the tune of 51 million units at the existing Pykara and Moyar Power Stations.

In service schedule—Second half of 1962.

86 per cent of dam masonry, 33 per cent of composite dam masonry and 91 per cent of concreting for the Sandynallah dam were completed.

Entire open cutting and concreting for R.C.C. duct 83 per cent were completed.

78 per cent of earth tunnel excavation and 61 per cent of tunnel concreting were completed.

Concreting of pumpwell for a depth of 40 feet (12 meters) was completed out of a total of 66 feet (20 meters).

The flume works were nearing completion.

### 3. METTUR TUNNEL HYDRO-ELECTRIC SCHEME.

Location, the power house will be located at Mettur Dam which is about 35 miles (56.327 Km.) from Salem Town of Madras State.

Gross head—130 feet (40 meters).

Installed capacity—

I Stage 100,000 KW.

II Stage 100,000 KW.

In service schedule—I stage—First half of 1964.

The Mettur Dam and Reservoir which was built across the Cauvery river during 1925-34 has a gross capacity of 93,500 M.C. feet at full reservoir level and is mainly intended for irrigation purposes.

At present about 4,000 cusecs of water are being used for power generation in the existing Mettur Power House though the normal irrigation discharge is in the order of 20,000 to 25,000 cusecs. A new scheme utilising this balance of irrigation discharge for power generation purposes has been included in the Third Five-Year Plan and the Planning Commission and the Government of India were kind enough to permit the Board to take up the preliminary works during the last year of the Second Plan Period itself.

The scheme costing about Rs. 507 lakhs, raising to 598.80 lakhs in four years and comprises the following:—

(a) A leading channel of about 500 feet (152 metres) in length cut in the bed of the Mettur lake terminating at the tunnel intake.

(b) A concrete lined pressure tunnel of 45 feet (14 meters) diameter and 1,350 feet (411 meters) long and a surge shaft 200 feet (61 meters) deep.

(c) Penstock tunnels each designed to take penstock pipes of 21 feet 3 inches (6 meters) internal diameter.

(d) A power station initially with two vertical kaplan turbines each coupled to 50,000 K.W. generators with step-up transformers.

(e) A transmission system 230 K.V. lines to link the new power house with the existing grid.

A net revenue return of 15.8 per cent is expected even from the fourth year of operation of the Scheme.

Progress of work—Work through construction shaft—Widening of the tunnel has been completed for a length of 8 feet (2 meters) towards the intake.

Work through Penstock tunnel—Mining done at the end of the year was 400 feet (122 meters) from the apex of the surge shaft towards the construction shaft. Total volume of mining completed in this region was 371, 888 c.ft.

Surge shaft—The total volume of open excavation completed at the end of the year was 1,893,700 c.ft.

Penstock tunnel—Mining of all the four penstock tunnels were completed.

Power House, Transformer yard, Tail-race Pool and channel.

Excavation for exposing faces of all the four penstock tunnels and for the first three machines were completed. Excavation for fourth machine foundation was in progress. The progress at the end of the year was 376,500 c.ft. in all soils and 1,945,000 c.ft. in rock which required blasting. About 1,219,000 c.ft. of excavation including rock required blasting was done in the transformer yard at the end of the year.

Sri V. P. Appadurai, the Chief Engineer for Electricity, Madras, went to Moscow during November 1961 along with Mr. A. T. Sreshia, Executive Engineer (Elec. and Mech.) to have discussions with the Technical experts of Messrs. Machino export, Moscow, in connection with the supply of generating machinery for the tunnel Power House in Mettur.

The generating machinery and transformers have since been ordered on Messrs. Machino export, Russia, under rupee payment and they are expected to be delivered during next year.

#### 4. KUNDAH HYDRO-ELECTRIC SCHEME III STAGE EXTENSION.

Location—Power House No. III at Pulikaraipalam valley which is about 23 miles (37 km.) from Mettupalayam.

Power House No. IV at the down stream of Pillur dam across Bhavani, 10 miles (16 Km.) from Mettupalayam.

Power House No. V at the exist of tunnel from Upper Bhavani river which is about 25 miles (40 Km.) from Ootacamund.

Installed capacity and gross head—

Power House III—

Initial 120,000 K.W.

Ultimate 189,000 K.W.

Maximum gross head—1,442 feet (440 meters).

Power House V—

Initial 50,000 K.W.

Ultimate 100,000 K.W.

Maximum gross head—245 feet (75 meters).

Power House V—

Initial 20,000 K.W.

Ultimate 40,000 K.W.

Maximum gross head—785 feet (297 meters).

In service schedule.—First unit in each of the three power stations by the beginning of 1964.

The initial phase of the Kundah Hydro-Electric Project has been completed in the Nilgiris hills with two power stations having a total installed capacity of 180,000 K.W. The project is being executed with the generous assistance of the Government of Canada under the Colombo Plan. The Canadian Government is contributing about 25,000,000 dollars worth of plant and machinery for the project.

The extension scheme now contemplated envisages three more power houses, two down below, utilising the waters of the same river along with other tributaries, and one at the exist of the Upper Bhavani tunnel and erection of additional generators in the existing two power houses. The total fall in the Kundah river that would be available for generating power is about 5,333 feet (1,625 meters) of which 3,647 feet (1,111 meters) drop is utilised in the first two stages which have been completed. The balance of 1,686 feet (514 meters) is proposed to be utilised in two more power houses under the third stage extensions scheme.

The extension scheme generally comprises—

(a) A forebay dam across Pegumbahallah stream.

(b) A low pressure tunnel from Pegumbahallah forebay dam to surge tank No. 3.

(c) Penstock lines to Power House No. III with two generators of 60,000 K.W. each.

(d) A dam across the river Bhavani at Pillur.

(e) A Power House No. IV on the down stream side of the Pillur Dam initially with a generator of 50,000 K.W. capacity with provision to have one more similar unit at a later date.

(f) Erection of an additional penstock line at Kundah Power House No. 1 and one more generator of 20,000 K.W.

(g) Erection of an additional penstock line at Kundah Power House No. II with one more generator of 35,000 K.W.

(h) Construction of a fifth Power House at the exit of the tunnel from Upper Bhavani to Avalanche reservoir with one penstock pipe and one generating unit of capacity 20,000 K.W. initially with space provision for one more penstock and generating unit of similar capacity at a later stage.

(i) Diversion works and storages at Varahapallam, Porthimund, Parsons Valley, Kateri, Niralapallam and Western catchments.

(j) Erection of two pump houses with small storages to pump water from Bangihalla catchment and Upper Bhavani catchment below the Upper Bhavani dam to the Upper Bhavani reservoir.

(k) A transmission system as follows.—(a) A 110 K.V. single circuit line from the Power House V at Upper Bhavani to Power House I—6 miles (9.656 Km.).

(b) A 230 K.V. single circuit line from Power House No. III to Power House No. IV—3.5 miles (5.633 Km.).

(c) A 230 K.V. single circuit line from Power House No. IV to Tadiyalur—21.5 miles (34.601 Km.).

(d) One 110 K.V. single circuit line from Tadiyalur to Erode 63 miles (101.389 Km.).

(e) One 230 K.V. single circuit line from Power House No. III to Power House II—7 miles (11.265 Km.).

(f) Other interconnecting lines and sub-stations.

The total cost of the scheme is estimated to be Rs. 2,305.62 lakhs and the scheme is expected to give a net return of 12.13 per cent from the third year of operation.

*Canadian Aid.*—The Canadian Minister during the inauguration function on 18th January 1961 announced that the Government of Canada have generously agreed to assist the Third Stage extension too by supplying all machinery and equipment required for the Third Power House and Head-works on the same lines as they did plants I and II. The total aid works out to over 22 million dollars. The Board is very grateful to Government of Canada and their consulting Engineers Messrs. Montreal Engineering Company and International Power Engineering Consultant, Limited, Vancouver who made an 'on the spot' study of the third stage extensions and reported favourably on the technical soundness of the project.

Sri V. P. Appadurai, the Chief Engineer (Electricity), Madras and Sri C. Sanjeevi, Public Relations Officer, left Madras on 3rd June 1961 for Canada in connection with the finalisation of specifications to the Kundah III Stage extensions and returned to Madras on 1st July 1961.

*Progress of work—Pegumbahallah Forebay Dam.*—About 1,308 units of excavation in earth and 8,955 units of excavation in rock were completed. Excavation in the centre portion of the dam has been completed. Grouting and drilling operations are in progress. Building masonry has been started and about 310 unit of masonry were built.

*Tunnel No. 3.*—Five out of a total of nine adits were completed. At the end of the year 3,314 feet (1,010 meters) of mining in the main tunnel and 5,840 feet (1,780 meters) of mining for adits were completed.

*Surge Shaft No. 3.*—261 feet (80 meters) mining was done at the end of the year.

*Penstock No. 3.*—Grading in all the reaches was continued and 71 per cent of the grading work was completed at the end of the year.



PILLUR DAM—View showing the upstream coffer dam wall.

2

2



PARSON'S VALLEY DAM—Excavation for foundation—View of Diversion channel on the Left Flank.

*Power House No. 3.*—About 4,962 units of excavation was completed by the end of March 1962.

*Pillur Dam.*—So far about 2,230 units of excavation in earth and 11,932 units of excavation in rock were completed.

*Power House No. IV.*—131 units of excavation in earth and 1,018 units of excavation in rock were completed. Transformer yard—111 units of earth and 26 units of rock have been excavated by the end of the year. Parson's Valley Dam—Excavation for foundation of dam is in progress. Eight hundred and forty-three units of earth work excavation was completed.

*Porthimund Dam.*—About 40 units of excavation for foundation was completed.

*Power House No. V.*—141 units of earth work excavation was completed. 986 feet (301 meters) of mining in the extension tunnel from main tunnel face was completed.

*Power House I.*—Construction of piers for the third line between anchors 1 to 3 was completed and that between anchors 3 to 7 is in progress.

*Power House No. II.*—Removal of loose earth at the valve portion and terminal anchor is in progress.

*Lines.*—The transmission lines and associated sub-station works are in various stages of progress.

#### 5. PERIYAR HYDRO-ELECTRIC SCHEME—II STAGE EXTENSIONS.

The Periyar Hydro-Electric Scheme is one of the Schemes executed under the Second Five-Year Plan. This was originally estimated to cost Rs. 10.09 crores but was executed with a saving of more than a crore of rupees and in a record time of about 3½ years. The scheme utilises the water from the Periyar lake in Kerala State which had been diverted to Madras State for irrigation purposes, under an agreement signed during the end of 19th Century. Utilising a portion of the irrigation discharge, the existing Periyar Power Station generates power to an extent of 105,000 K.Ws. with three generating units each of 35,000 K.Ws.

The Second Stage Extensions of this scheme is to utilise the balance of irrigation discharge for power generation by installing one more 35,000 K.Ws. generating set with connected Penstock pipe, etc. in the existing power station.

At present only 1,200 cusecs are being drawn through the existing three Penstock pipes. One more pipe line will be added in the existing Penstock slopes itself to draw the balance of 400 cusecs.

All connected head works up to the first anchor of Penstock line below the valve house have been completed in the first stage itself. Below the first anchor, grading of Penstocks for full width, laying of substructure of anchors for 4th Penstock line, construction of power house building except four foundations for the 4th unit have all been done under first stage works.

The principal works included in the second stage extensions are—

1. Installation of fourth Penstock below anchor 1.

2. Installation of a 50,000 H.P. reaction turbine with a generator of 35,000 K.W. capacity with auxiliaries, step up transformer and connected switchgear, etc.

The scheme is estimated to cost Rs. 94 lakhs and the administrative approval has been received during the middle of 1961.

*Progress of work.*—The track line along Penstock is being laid. Masonry work at anchor No. 8 is nearing completion.

Excavation for foundation of 11 K.V. and 110 K.V. structures was in progress.

Orders for generator, turbine and transformer have been placed under Yugoslavian credit with Yugoslavian Firms. Penstock pipes have been ordered locally from indigenous sources. With this addition the station will generate full 140,00 K.W. of power during average irrigation season.

As per the present delivery period, the equipments are expected to be delivered by the end of 1963 and the generating unit will start operation by the middle of 1964.

#### 6. ANAMALAI HYDRO-ELECTRIC SCHEME—PARAMBIKULAM-ALIYAR PROJECT.

This is a part of the integrated irrigation-cum-Hydro-Electric Parambikulam-Aliyar Project, which proposes to utilise the waters of Sholayar Parambikulam and Aliyar rivers in the Annamalai Hills of the Coimbatore district. The revised scheme envisaging the construction of five Power Stations with an installed capacity of 180,000 K.W. and costing about Rs. 1,022 lakhs for the Power Portion is awaiting the approval of the Planning Commission.

As a special case the C.W.P.C. have authorised the State Electricity Board to commence civil works relating to Sholayar I and Sarkarpathy Power Stations with a total installed capacity of 100,000 K.W.

Tenders for the generating machinery and associated switchgear for these two Power Stations have already been called for while materials for the transmission lines coming under the scheme have been ordered.

A new circle for attending to these works is being formed and the preliminary works have been commenced.

#### 7. TRANSMISSION AND DISTRIBUTION PROJECT.

The transmission and distribution project envisages the construction of extra high-tension and high-tension lines and associated sub-stations to transmit the additional power available to the various load centres.

An important feature of the transmission scheme during the Third Plan period is the formation of the 230 K.V. super grid which will facilitate effective utilisation of power within the State and interchange of power with the neighbouring states.

In addition the scheme also provides for increase in transformer capacity, modernising the sub-stations with the latest type of protection equipments and augmenting the boiler capacity at Basin Bridge.

*Transmission lines.*—The following extra high-tension and high-tension lines were energised during the year.

1. Pasumalai—Sembatti 110 K.V. line.
2. Coimbatore—Madurai 66 K.V. upgraded to 110 K.V. operation.
3. Pasumalai—Arasaradi 110 K.V. line.
4. Karaikudi—A. Therkur 66 K.V. line.
5. A. Therkur—Natham 66 K.V. line.
6. Villivakkam—Ennore 110 K.V. line.

Works on the following transmission lines were under various stages of progress.

- Thudiyalur—Madurai 230 K.V. line.
- Neyveli—Tiruchirappalli 230 K.V. line.
- Mettur—Salem 230 K.V. line.
- Tiruchirappalli—Madurai 230 K.V. line.
- Namakkal—Dalmia—Tiruchirappalli 110 K.V. line.
- Villupuram—Arni—Kaveripauk—Kancheepuram 110 K.V. line.
- Madurai—Kayathar 110 K.V. line.
- Udumalpet—Dharapuram—Erode 110 K.V. line.
- Erumaiyur—Kadaperi 110 K.V. spur line.
- Periyar—Kayathar 110 K.V. II Circuit.
- Neyveli—Panruti 110 K.V. line.
- Salem—Attur—Neyveli 110 K.V. line II Circuit.
- Pollachi—Iyerpadi 66/110 K.V. line.
- Eppoduvendran—Tuticorin 66 K.V. line.

Sub-stations—The following sub-stations came into operation during the year.

- Ennore—110/33-11 K.V. Mandapam 22/11 K.V.
- Mettupalayam 110/22-11 K.V. Gingee 33/11 K.V.
- Mettur Dam 110/11-22 K.V. Vridhachalam 33/11 K.V.
- Vickramasingapuram 66/22-11 K.V. Buckingham and Carnatic Mills 33/11 K.V., Madras.
- Arasaradi 110/11 K.V.
- Integral Coach Factory 33/11 K.V., Madras.
- A. Therkur 66/11 K.V.
- Natham 66/11 K.V.
- Valayapatti 66/11 K.V.
- Kodumudi 66/22-11 K.V.

Sub-stations works connected with the following stations continued to progress.

Kadaperi, Arni, Gudiyatham, Kaveripauk, Vaniambadi, Vellore, Kancheepuram, Thuraiyur, Dahnia, Udumalpet, etc.

#### 8. TECHNICAL SECTION.

The technical branch comprising of an electrical, a civil and an investigation sections continued to be busy in preparing the designs, estimates scheme reports, issue of specifications, scrutiny of tenders, awarding of contracts for sanctioned works and investigation of new schemes.

Some of the important works attended to by these branches are given below :—

**Electrical Branch.**—Scheme reports were prepared for the establishment of 110/22-11 K.V. sub-station at Ramarajapuram in Ramanathapuram district, 110/11 K.V. sub-station at Tiruverumbur in Tiruchirappalli district and 66/33-11 K.V. sub-station at Ayyarmalai and extension of 33 K.V. lines for establishment of 33/11 K.V. sub-station at Manaparai, Kolithalai, Chinthamanipatti and Viralmalai in Tiruchirappalli System.

Revised scheme report for the establishment of a 110/22 K.V. sub-station at Thuraiyur was prepared at an estimated cost of Rs. 13.12 lakhs.

The following are some of the new schemes sanctioned during the year :—

| (1)                                                                                           | Cost in lakhs of rupees. |                  |
|-----------------------------------------------------------------------------------------------|--------------------------|------------------|
|                                                                                               | Initial.<br>(2)          | Ultimate.<br>(3) |
| Periyar II stage .. .. .                                                                      | 88.80                    | 94.00            |
| Establishment of Arasaradi 110/11 K.V. sub-station.                                           | 16.43                    | 15.90            |
| Establishment of 66/33-11 K.V. sub-station at Ayyarmalai and four other 33 K.V. sub-stations. | 41.34                    | 45.19            |
| Establishment of 66/11 K.V. sub-station at Valayapatti.                                       | 7.50                     | 8.46             |
| Establishment of 33/11 K.V. sub-station at Damal in Kanchee Taluk.                            | 5.99                     | 9.00             |
| Establishment of 66/11 K.V. sub-station at Athimancheripet in Tiruttani Taluk                 | 8.26                     | 11.45            |
| H.T. supply to Pondy State. .. .                                                              | 9.89                     | ..               |

Revised estimate for the Neyveli transmission scheme II stage was sanctioned at an estimated cost of Rs. 1,644.59 lakhs.

175 detailed estimates amounting to Rs. 373.937 lakhs were prepared and got sanctioned during the year.

77 specifications were issued.

Contracts for the erection of Singarapet-Korattur, 110 K.V. The Udumalpet-Dharapuram-Erode 110 K.V. line, and Thudiyalur-Erode 110 K.V. line and supply of G.I. pipe earthing materials for various transmission lines were placed during the year.

Supply of materials for the Mettur Tunnel Scheme and Periyar Hydro-Electric Scheme II stage extensions were also ordered during the year.

One thousand three hundred and sixty-nine major and minor rural extension schemes costing Rs. 1,212.20 lakhs were scrutinised and 1,204 schemes estimated to cost Rs. 1,108.98 lakhs were sanctioned so far.

The Board participated in the Second National Agricultural Fair, 1961-62 held at Madras from 13th January to 11th March 1962. An impressive circular pavilion was put and all project models and charts and photographs in the achievements under the Five-Year Plans were displayed. More than three lakhs of people visited the pavilion and a 'Silver Shield' was awarded for the impressive get up and nice display of exhibits.

**Civil Branch.**—During the year the civil branch continued to be busy in preparing various schemes reports, designs, specifications, tender sets, estimates placing of contracts and purchase orders in respect of all civil works pertaining to all systems under operation and projects under constructions.

The following are some of the important specifications issued during the year :—

Supply of gates, hoists, penstock pipes and construction of reinforced cement concrete bridge across the tail race pool and quarters for the Mettur Tunnel Power House Scheme.

Supply of iron sleepers, penstocks, valves pressure recorders, testing machines of 500 tons (508 tonnes) capacity, water filters reinforced cement concrete pipes, mobile cranes, compressors, etc., for the Kundah Hydro-Electric Scheme III stage extensions.

Specification for fabrication and erection of building steel framework for the main Power House building at Basin Bridge.

Specification for dismantling for foundation and superstructure for the additional 150,000 lb. hr. boilers at Basin Bridge.

Spares for gate with hoisting gear for the irrigation tunnel of Periyar Hydro-Electric Scheme.

About 71,400 tons (72,545 tonnes) of cement were ordered for the requirements of projects and operating systems. Steel indents were placed for about 9,600 tons (9,754 tonnes) for the Power Projects during the year.

**Investigation Branch.**—This circle is dealing with all investigations of new hydro-electric schemes.

The important items of works attended to by this circle are as detailed below :—

**Kodayar Hydro-Electric Scheme.**—This scheme is situated in Kanyakumari district. Preliminary investigations were commenced in October 1960.

Surveys pertaining to Power House Nos. 1 and 2, Upper Kodayar dam, surge, penstocks, etc., were completed. The reservoir survey is nearing completion. Explorations with core drilling at Upper Kodayar dam site is in progress.

*Upper Moyar Hydro-Electric Scheme*—Investigation of this scheme has been dropped. As the scheme is situated within the Mudumalai Wild Life Sanctuary, the Forest Authorities objected for taking up of the scheme for power development.

*Hogenakkal Hydro-Electric Scheme*.—The scheme is located in the course of the Cauvery river just above the Mettur Power Station. The scheme is estimated to cost Rs. 58 crores. As this is an inter-state scheme detailed investigations can be taken up after approval is obtained from the Mysore State Government.

*Hydro-Metric Surveys*.—The number of rainfall, riverflow, evaporation stations, current meter gauging stations, etc., are given below:—

| Year.         | River flow stations. | Rainfall<br>Boards<br>stations. | Rainfall<br>Private<br>stations. | Rainfall<br>Total<br>stations. | Evaporation stations. | C.M.G. stations. | Observance of front<br>and rear gauge<br>readings. |
|---------------|----------------------|---------------------------------|----------------------------------|--------------------------------|-----------------------|------------------|----------------------------------------------------|
| (1)           | (2)                  | (3)                             | (4)                              | (5)                            | (6)                   | (7)              | (8)                                                |
| 1958-59 .. .. | 54                   | 178                             | 304                              | 482                            | 10                    | 1                | 14                                                 |
| 1959-60 .. .. | 55                   | 193                             | 304                              | 497                            | 9                     | 1                | 14                                                 |
| 1960-61 .. .. | 56                   | 194                             | 281                              | 478                            | 9                     | 1                | 10                                                 |
| 1961-62 .. .. | 55                   | 190                             | 292                              | 482                            | 9                     | Nil.             | 10                                                 |

7. The construction of measuring weirs installation of rainfall stations. evaporation pan stations, rest sheds, etc., under phased H.M.S. Programme for five years were under various stages of progress.

## SECTION V.—RURAL ELECTRIFICATION.

Significance of Rural Electrification in the State—To Madras State, just as for the rest of India, Rural Electrification is of special significance, as a majority of the people of the State live in rural areas. Comprising of an area of 50,360 square miles (130,431.896 sq.k.m.) with 18,857 towns and villages, the State has a population of 33.65 millions, out of which 24.66 millions is the rural population (73.3 per cent). The predominant occupation in the State is agriculture and in the absence of adequate number of perennial rivers, the ryots have to depend on lift irrigation. The electricity is playing an important part in the lift irrigation thereby improving food production to a great extent and brings more employment to the rural population. It also provides various amenities for health and happy living and thus raises the standard of living of common man. About 12,653 towns, villages and hamlets are enjoying the benefits of electricity at the end of 1961-62.

The Madras Electricity Department since its very inception in 1927, has as its main objective the tapping of the available power resources in the State and form a State-wide grid for distributing power to the nooks and corners of the State. The programme has received a further impetus with the declaration of Independence in India and the launching of the Five-Year Plans. The particulars of the number of villages electrified in the State given in Table I will show the progress of Rural Electrification in the State.

TABLE I.

| As at the end of the year. |    |    |    |    |    |    | Number of towns,<br>villages and<br>hamlets<br>electrified. |
|----------------------------|----|----|----|----|----|----|-------------------------------------------------------------|
| 1935-36                    | .. | .. | .. | .. | .. | .. | 30                                                          |
| 1940-41                    | .. | .. | .. | .. | .. | .. | 740                                                         |
| 1945-46                    | .. | .. | .. | .. | .. | .. | 804                                                         |
| 1950-51                    | .. | .. | .. | .. | .. | .. | 1,613                                                       |
| 1955-56                    | .. | .. | .. | .. | .. | .. | 3,543                                                       |
| 1960-61                    | .. | .. | .. | .. | .. | .. | 10,736                                                      |
| 1961-62                    | .. | .. | .. | .. | .. | .. | 12,653                                                      |

A target of electrification of 250 villages per annum during the first Plan period was fixed for the erstwhile composite Madras State. But the actual achievement for the residuary State itself (after the partition of Andhra) exceeded this target with a very wide margin. About 1,900 villages have been electrified and 18,000 pumpsets have been connected up during the First Plan period.

In view of the increased importance attached to rural electrification in the Second Plan, target of extending power to 250 additional villages per annum was doubled to 500 villages and subsequently to 1,000 villages per annum. The achievements have exceeded every year even this enhanced target. About 6,567 villages have been electrified and 83,603 pumpsets have been connected during the Second Plan period. An expenditure of Rs. 27.33 crores was incurred by the Board on Rural Electrification works under the Second Plan.

In the Third Five-Year Plan, it is programmed to extend electricity to 8,000 new villages at an estimated cost of Rs. 30 crores. It is estimated this would enable atleast 75,000 agricultural pumpsets to derive the benefits of cheap electric power.

Rural electrification is undertaken on an extensive scale and power supply was extended to 1,864 villages and hamlets by the Board and 29 villages and hamlets by the licensees during the first year of the Third Five-Year Plan under review. There are at present 12,368 villages and hamlet and 285 towns electrified at the end of March 1962.

*Electricity in Agriculture.*—At present electricity in rural areas is used mainly for lift irrigation. About 140,601 pumpsets with a connected load of about 513,022·017 kws. are getting power from the grid at the end of 1961-62. About 1,000 to 1,500 pumpsets are being connected up every month. Twenty-eight per cent of the power generated is consumed by the pumpsets. In respect of utilisation of power for (agricultural pumpsets) irrigation, Madras State leads all other States in India.

Table II below indicates the details of pumpsets connected up in the State during the year 1961-62 and the total at the end of the year.

TABLE II.

|                         | Services connected during 1961-62. |                         | Total number of services as on 31st March 1962. |                         |
|-------------------------|------------------------------------|-------------------------|-------------------------------------------------|-------------------------|
|                         | Number.                            | Connected load in K. W. | Number.                                         | Connected load in K. W. |
| (1)                     | (2)                                | (3)                     | (4)                                             | (5)                     |
| Pykara .. .. .          | 3,447                              | 13,540·996              | 21,793                                          | 89,638·864              |
| Mettur .. .. .          | 4,981                              | 17,034·910              | 33,551                                          | 125,108·480             |
| Madurai .. .. .         | 2,119                              | 6,773·165               | 14,152                                          | 53,646·000              |
| Vellore .. .. .         | 6,029                              | 17,779·418              | 34,807                                          | 108,742·986             |
| Trichirappalli .. .. .  | 3,575                              | 17,028·640              | 13,220                                          | 52,939·495              |
| Tirunelveli .. .. .     | 1,205                              | 3,085·800               | 7,523                                           | 21,503·200              |
| Madras .. .. .          | 1,931                              | 3,887·746               | 9,185                                           | 20,861·988              |
| Total for Board .. .. . | 22,387                             | 79,780·675              | 134,231                                         | 491,441·013             |
| Licensees .. .. .       | 1,051                              | 3,171·246               | 6,370                                           | 21,581·004              |
| Grand Total .. .. .     | 23,438                             | 82,951·921              | 140,601                                         | 513,022·017             |

District and taluk-war details of villages electrified and pumpsets connected up in the State are given in Appendix 'O'.

With a view to induce agriculturists to utilise cheap electric power, the Board offers electricity at very cheap rate, viz., 7 naye Paise per unit. They are generally considered as essential consumers and new connections for agricultural purposes are treated on a priority basis as they help to increase the food production. Some other concessions given by the Board, are enumerated below.

When compared to other classes of low-tension consumers, the agricultural tariff is so low, that by no other source of motive power, human power, bullock power, oil engine, gas engine, steam engine, etc., it is possible to obtain equivalent service even at twice the cost payable for pumping an equal quantity of water.

Provision of free service connection for a distance of about 100 feet (30·480 meters) from the distributing main if the cost does not exceed Rs. 60 per horse power of connected load.

Waiver of minimum or special guarantee charges during the period when wells are dry and pumping is not possible.

Waiver of minimum or special guarantee when consumers are prevented from taking or utilising energy either in whole or in part due to cause beyond their control.

Agricultural services will not be disconnected if pumpsets are removed for want of water. If, however, the services are disconnected for some reason, no reconnection fee is levied.

The payment of unconnected minimum charges has since been completely dispensed with.

The maximum special guarantee in the forward areas has been reduced from Rs. 50 per horse power to Rs. 45 per horse power while that in the backward areas has been reduced to Rs. 35 per horse power.

In addition to the above, Government of Madras in the Agricultural Department are advancing loans to the agriculturists for the purchase of pumpsets.

Even though the return from the rural areas to the Board, is not quite up to the mark, indirect benefit to the State through increased food production and improvement of lot of the farmers and the rural folk is considerable. The Government have granted subsidy to the Board to offset the above reduced return.

*Rural Industries.*—Next to agricultural loads, small industrial loads are the major power consuming ones in the rural areas. The Board and Government have been attaching considerable importance to the development of small industries.

Electricity is used in rural areas for processing of the agricultural products like rice-hulling, flour grinding, decorticating, oil pressing, sugar cane crushing, cotton ginning, etc. There are more than 11,000 such rural industries having the benefits of electricity at the end of the year.

Electricity is offered to such industries at a cheap rate of 10 nP. per K.W.H. For cottage industries, however, electricity is offered at the same rate as it is for agriculture purposes, i.e., 7 nP. per unit.

*Development Block Areas.*—In the development block areas about 256 schemes were completed and 753 schemes were in different stages of Progress during the year.

An abstract of these schemes is given below :—

|                               | Community<br>Development<br>Blocks. | Stage I,<br>Stage II<br>and<br>pre-extension<br>Blocks. | Total.          |
|-------------------------------|-------------------------------------|---------------------------------------------------------|-----------------|
| (1)                           | (2)                                 | (3)                                                     | (4)             |
| Number of villages benefited. | 65                                  | 782                                                     | 847             |
| Schemes completed—            |                                     |                                                         |                 |
| Number .. ..                  | 19                                  | 272                                                     | 291             |
| Estimated cost .. Rs.         | 22,29,857                           | Rs. 1,88,03,283                                         | Rs. 2,10,33,140 |
| Expenditure incurred. Rs.     | 5,66,195                            | Rs 54,58,182                                            | Rs. 60,24,377   |
| Schemes in progress—          |                                     |                                                         |                 |
| Number .. ..                  | 58                                  | 733                                                     | 791             |
| Estimated cost .. Rs.         | 52,81,208                           | Rs. 7,40,30,911                                         | Rs. 7,93,12,119 |
| Expenditure incurred. Rs.     | 11,10,412                           | Rs. 1,45,00,921                                         | Rs. 1,56,11,333 |

The total expenditure in Community Development Schemes, Stage I, Stage II and Pre-extension Schemes is Rs. 2,16,35,710.

*Harijan Colony Electrification in 1961-62.*—During the year about 235 Harijan colonies were electrified, incurring an expenditure of Rs. 1.51 lakhs as against the provision of Rs. 1.50 lakhs from the Harijan Welfare Fund.

*Economics of rural electrification.*—The problem in rural electrification is that of supplying power economically to small loads scattered over long distances. Financing of rural electrification is therefore not subjected to the normal test of return on investment.

In the Board's area, a rural extension is taken up, if the annual revenue return over a ten year period is at least 10 per cent of the capital cost of the extension, though it was found that such an extension when added to the existing system affects the return to a certain extent. Every effort is however, made to plan and execute the rural extension as economical as possible in consistent with the reliability of supply, operational convenience and safety of the public.

Standardise economical design are used for the transmission lines and sub-stations. Even the methods of construction, operation, etc., are all standardised to a very large extent. In view of the increased cost of steel supports R.C.C. poles, cast in R.C.C. pole yards are used in convenient locations. Three lines up to 33 K.V. wood poles and palmyrah poles are used in suitable rural locations. Sub-station structures are also made of R.C.C. cast in site. Aluminium conductors are used in place of copper conductors for transmission and distributions alike. Single phase distribution lines with single phase transformers are used in backwards areas wherein a 3-phase extension will not be economical.

The Electricity Board and Government are thus striving to extend electricity to all the villages, however remote they may be, so that every rural home and farm would derive the benefit of electric power as early as possible.

## SECTION VI—MANUFACTURE AND TESTING ACTIVITIES.

In order to evolve a high standard of operation and maintenance, the testing organisations attached in the operating systems continued to carry out periodical tests on electrical plants and equipments, meters, telephone equipments and relays were tested and repaired at these organisations. Overhaul of transformers, circuit breakers, etc., were continued at the special maintenance organisation of the Board.

There was a steady increase in the demand of tested meters in all the systems of the Board due to rapid expansion programme. All the Meter Relay Testing organisations continued to show good progress and fully met the increased demand of tested meters throughout the year. 130,021 meters and 1,215 relays were tested and 6,328 meters and 461 sick transformers were repaired during the year. Six hundred and seventeen high tension meters besides number of C.Ts. P.Ts. telephone equipments, time switches, recording instruments indicating meters, etc., were tested. 63,639 gallons (289,300 litres) of transformer oil were re-conditioned and tested. 29,002 oil samples were tested for B.D.V. and acidity.

### RESEARCH ACTIVITIES.

The following works suggested by the Central Board of Irrigation and Power were taken up for study by the Research wing.

(i) Insulator Contamination in polluted atmospheres.

(ii) Use of inhibitors to increase the useful life of insulating oils. Field reports on the trial use of materials such as silicone MS4, Shelltiria 'C' Shellensis and Penetrol as protective coat on insulators are being received. Likewise inhibitors such as D.B.P.C. and or to concentrate and inhibited oil shell Diala Bx have been tried on distribution transformers in various places.

*Research Laboratory.*—The Research Laboratory was started with the few available equipments. Additional testing equipments were ordered and with the few available equipments.

Interfacial tension tests on oil samples from the systems have been conducted with the help of the interfacial tensiometer.

*Motorettes.*—Life cycle tests on the insulating materials used in motors have been taken up at the laboratory at the instance of the Cables and Insulation Testing Centre, Bratislava, Czechoslovakia, under the guidance of the Indian Standards Institution, New Delhi. These tests were in progress.

*Net work analyser studies.*—An Analyser Study for the operation of the Madras Grid for 1965-66 and 1970-71 condition was made at the Indian Institute of Science, Bangalore in November 1961.

The following problems were studied :—

1. Determination of voltage levels at all EHT buses flow along main interconnectors, requirement of shunt capacitors and synchronous condensers for 1965-66 and 1970-71 conditions.

2. Single phase to ground and symmetrical three phase fault studies for 1965-66 generating conditions.

3. Symmetrical three phase fault studies for 1970-71 conditions.

## STANDARDISATION.

Portions of "Sub-station—Design and Standards", chapter on "sub-station—O. & M.", chapters on "Transmission lines—Erection" and "Distribution lines—Erection" were scrutinised for standardisation and comments on I.E.C. and I.S.I. documents relating to Power Transformers, Steam Turbines and Hydraulic Turbines were also issued.

The following standards have been evolved and issued so far:—

1. Standard maximum and normal spans for different lengths of R.C.C. supports finalised.
2. Live patrol diary.
3. Maintenance and operating instructions of NIFF and lead acid storage batteries.
4. Maintenance instructions on fire extinguishers.
5. Maintenance of wood poles by Penta Petroleum treatment—Addendum to Technical Instructions.
6. Use of open air fuses—Standardised and instructions to the field.

## HOT LINE MAINTENANCE WORKS.

Hot line maintenance works, i.e., carrying out maintenance works on hot or live lines with special tests and equipments was continued during the year. So far 18 persons of the Board's staff have undergone special training at Bangalore on hot line works under the Technical Co-operative Mission programme sponsored by the Government of India under the supervision of an American expert. There are two hot line crews, one stationed at Korattur and the other at Coimbatore doing hot line works on lines and equipments of all voltages. The areas covered by Madras, Vellore and Tiruchirappalli Systems were attended to by the Korattur crew and the areas covered by Mettur, Pykara, Madurai and Tirunelveli were attached to Coimbatore crew.

So far about 60 operations by the Coimbatore crew and 150 operations by the Korattur crew total 210 operations were carried out in the various lines of the grid.

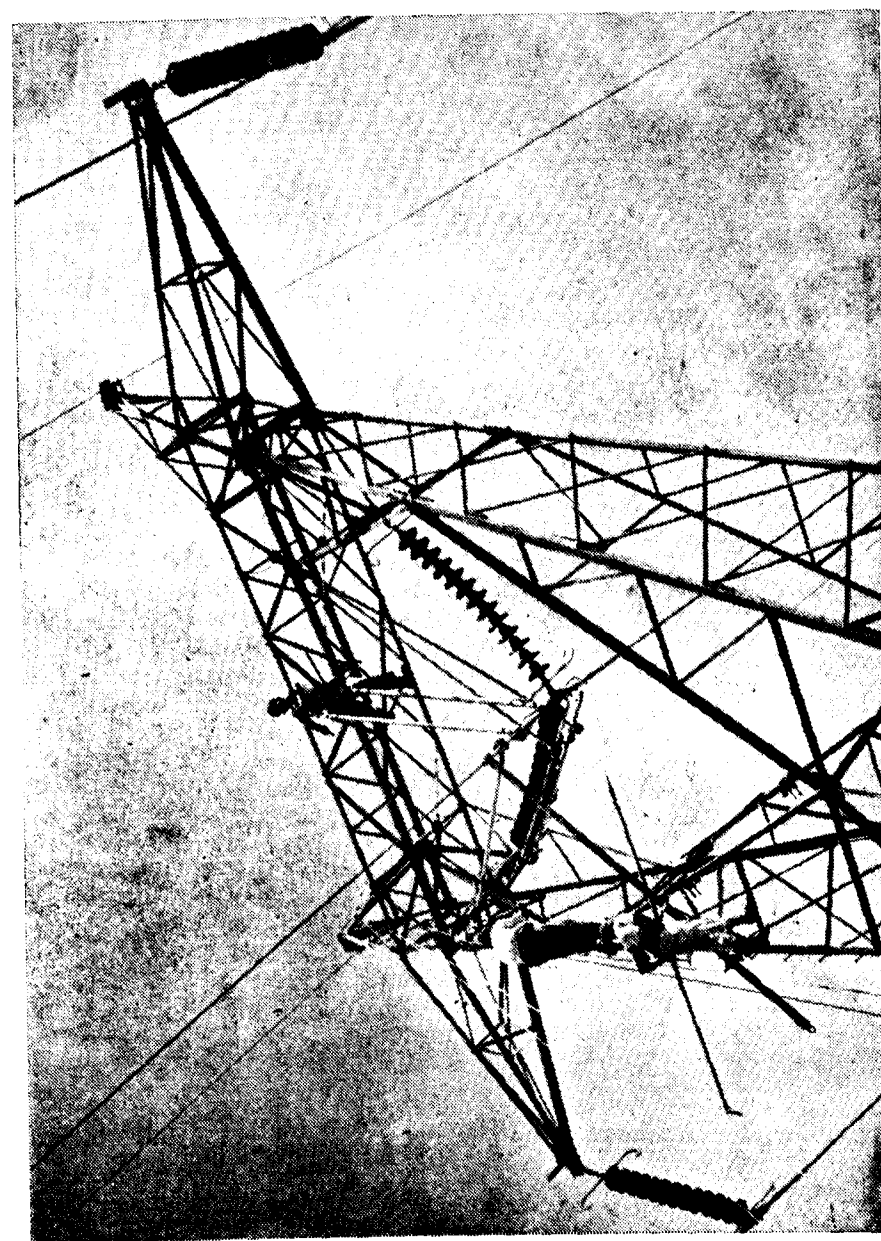
By this method of maintenance continuity of power supply is ensured. Interruptions of supply which caused hardship to the domestic consumers and which spells a grave loss to the industrialists and other bulk consumers is avoided.

It is estimated that there has been saving of revenue to an extent of Rs. 2 lakhs on account of the hot line works as the conventional shut downs are avoided.

The staff who have been trained on and engaged in hot line works have been insured against death and permanent disability for Rs. 10,000 each in the case of Supervisors and Rs. 5,000 each in the case of the others.

## TECHNICAL TRAINING SCHEME.

Sanction was accorded for opening three additional Technical Training Centres at Madurai, Coimbatore and Madras, for imparting training in pole line and tower line construction works to the Operation Subordinate Service



Hot line Maintenance work on 230 kv. Kundah—Salem line by Coimbatore crew.

and Work Charged Establishment members of this Electricity Board, *vide* B.P. Ms. No. 1766, dated 7th September 1961. The duration of training has also been raised from one month to three months, to make the training more useful and effective. The Technical training Centre at Madurai started functioning from 16th January 1962. The Technical Training Centres at Madras and Coimbatore are proposed to be opened by 1st July 1962.

Technical training in construction works has been imparted to 421-W.C. and Operation Subordinate Service members of this Board during the year 1961-62 bringing the total at the end of the year to 3,824.

About 349 candidates from various colleges, Polytechnics, Industrial institutions, etc., have undergone practical training in various power houses, workshops, etc., of the Electricity Board as detailed below :—

|                                                                                                                                                 | <i>Number of persons.</i> |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| (i) B.E. trainees ... ..                                                                                                                        | 69                        |
| (ii) L.M.E. and L.E.E. : Paid and unpaid apprentices, part-time stipendiary and part-time apprentices, etc. ...                                 | 111                       |
| (iii) A.M.I.E. candidates ... ..                                                                                                                | 26                        |
| (iv) Technical Training (Practical) : Stipendiary and part-time stipendiary candidates, unpaid apprentices, short-term apprentices, etc. ... .. | 143                       |

*Manufacture of line materials—Mettur Workshop.*—This is the 27th year of operation of the Mettur Workshop.

The total turnover during the year was Rs. 67.42 lakhs as detailed below :—

| Particulars.            | Tonnage. | Tonnes. | Value Rupees in Lakhs. |
|-------------------------|----------|---------|------------------------|
| (1)                     | (2)      | (3)     | (4)                    |
| Tower materials .. .. . | 4,336    | 4,406   | 49.72                  |
| Line materials .. .. .  | 830      | 843     | 17.70                  |

3,832 tons (3,893.5 tonnes) of tower materials for major transmission lines, viz., Thudiyalur Madurai 230 K.V. line, Tiruchirappalli—Neyveli 230 K.V. line and Villupuram—Arni—Kaveripauk—Kanchee 110 KV. lines were manufactured, during the year.

The following are some of the important materials manufactured in the workshop :—

|                                              |        |
|----------------------------------------------|--------|
| 11 KV. switches (6 post) ... ..              | 760    |
| 22 KV. switches ... ..                       | 869    |
| 11, 22, 33 KV. A.B. switches (9 post) ... .. | 173    |
| 66 and 110 KV. A.B. switches (9 post) ... .. | 65     |
| 11 and 22 KV. pins ... ..                    | 21,030 |
| A and B type distribution boxes ... ..       | 4,015  |
| S.B. dampers for various lines ... ..        | 2,945  |
| Hand winches for transmission lines ... ..   | 6      |
| Trailer for power winches ... ..             | 2      |
| Body-building for lorries ... ..             | 9      |
| Clamps for various S.S. ... ..               | 850    |

Transmission line tower testing—Five tower tests were carried out during the year bringing the total so far done to 93.

#### MADRAS WORKSHOPS AT MYLAPORE AND KODAMBARKAM.

The workshops at Mylapore and Kodambakkam continued to show good progress in production. The total value of production during the year was about Rs. 18.80 lakhs

Line materials such as cross arms, transformer structures, T.I. fittings, light fixture distribution box, R.C.C. clamps, fuse sets, 11 KV. pins, earthing device, guy sets, stay rod, arcing horns, A.B. switch clamps, L.T. shackles, G.I. couplings, shunt capacitor stand, pillar box shells, relay alarm panel, Kiosk, G.I. knobs, A.B. contact blades, lead seal, etc., were manufactured in these workshops.

#### MANUFACTURE OF CONCRETE LINE SUPPORTS.

R.C.C. poles are very largely used as line supports at all locations including special locations and angles. These are not however used at locations where transport is difficult and costly. The requirements of line supports for rural electrification are met from these poles manufactured by the Board.

The systemwise break up of R.C.C. poles in different sizes manufactured during the year were as follows:—

| System.            | Number of centres. | Length of Poles.     |                      |                    |                    |
|--------------------|--------------------|----------------------|----------------------|--------------------|--------------------|
|                    |                    | 15 feet (4.6 meter). | 18 feet (5.5 meter). | 20 feet (6 meter). | 24 feet (7 meter). |
| (1)                | (2)                | (3)                  | (4)                  | (5)                | (6)                |
| Pykara .. ..       | 12                 | 64                   | ..                   | ..                 | 19,816             |
| Mettur .. ..       | 121                | ..                   | ..                   | ..                 | 14,744             |
| Madurai .. ..      | 15                 | ..                   | ..                   | ..                 | 9,708              |
| Vellore .. ..      | 98                 | ..                   | ..                   | ..                 | 27,462             |
| Tiruchirappalli .. | 117                | ..                   | ..                   | 504                | 25,446             |
| Tinneveli .. ..    | 10                 | ..                   | ..                   | ..                 | 11,680             |
| Madras .. ..       | 9                  | ..                   | 10                   | 33                 | 5,207              |
| <b>Total ..</b>    | <b>382</b>         | <b>64</b>            | <b>10</b>            | <b>537</b>         | <b>114,013</b>     |

|                    | Length of poles—c nt. |                    |                    |                            | Total.          |
|--------------------|-----------------------|--------------------|--------------------|----------------------------|-----------------|
|                    | 27 feet (8.1 meter).  | 26 feet (8 meter). | 30 feet (9 meter). | 30 feet (9 meter) special. |                 |
|                    | (7)                   | (8)                | (9)                | (10)                       | (11)            |
| Pykara .. ..       | 7,785                 | ..                 | 27,557             | 2,768                      | 57,990          |
| Mettur .. ..       | 2,214                 | ..                 | 3,452              | ..                         | 20,410          |
| Madurai .. ..      | 4,429                 | ..                 | 1,077              | 449                        | 15,663          |
| Vellore .. ..      | 3,161                 | ..                 | 1,106              | ..                         | 31,729          |
| Tiruchirappalli .. | 7,225                 | ..                 | 3,781              | ..                         | 36,956          |
| Tinneveli .. ..    | 4,263                 | ..                 | 2,272              | ..                         | 18,165          |
| Madras .. ..       | 1,693                 | 76                 | 465                | ..                         | 7,484           |
| <b>Total ..</b>    | <b>30,770</b>         | <b>76</b>          | <b>39,710</b>      | <b>3,217</b>               | <b>1,88,397</b> |

Besides these about 19,000 R.C.C. poles were ordered from private contractors.

The production of R.C.C. poles by the Board were increased by 74,755 during this year when compared to 113,642 in 1960-61.

**Wooden poles.**—During the year 4,397 wooden poles such as teak, blue-gum, palmyrah, etc., were purchased and used as line supports.

#### SECTION VII. LICENSEES—UNDERTAKING AND INSPECTORATE.

The reorganisation of the Electrical Inspectorate as a separate department under Government headed by the Chief Electrical Inspector to Government as ordered in G.O. Ms. No. 2300, Public Works, dated 7th September 1961, came into effect with the present incumbent, Sri P. Rajagopal Pillai, taking charge on 13th September 1961. The Chief Electrical Inspector to Government was statutorily appointed Electrical Inspector for the entire Madras State including the area of supply of the Madras State Electricity Board, but excluding the works of electrical installations belonging to or under the control of Central Government or in relation to any Mines, Oil-Fields, Railways, Aerodromes, Telegraphs, Broadcasting stations or any work of the Defence in such areas.

Three new inspection Divisions each in charge of an Electrical Inspector and having territorial jurisdiction over four or five districts started functioning at Madras, Madurai and Coimbatore in the reorganised set-up.

**Electrical undertakings.**—There were 13 Distribution Licensees in the State during the year, eight of them being company undertakings and the rest being Local Authorities undertakings as detailed below:—

##### (a) Company undertakings:—

- (1) Kumbakonam Electric Supply Corporation, Limited.
- (2) Mayavaram-Mannargudi-Tiruvarur Electric Licence.
- (3) Nagapatam Electric Supply Company, Limited.
- (4) Shencottah Electric Supply Agency, Limited.
- (5) Salem-Erode Electricity Distribution Company, Limited.
- (6) Tiruchirappalli-Srirangam Electric Licence.
- (7) Tirunelveli-Tuticorin Electric Supply Company, Limited.
- (8) Vellore Electric Corporation, Limited.

##### (b) Local Authorities undertakings:—

- (1) Coimbatore Municipality.
- (2) Karur Municipality.
- (3) Madurai Municipality.
- (4) Pollachi Municipality.
- (5) Thanjavur Municipality.

There were no self-generating licensees in the State nor was any licence granted during the year. No sanction under section 28 of the Indian Electricity Act was granted during the year.

The functions relating to audit of private electric licensees' accounts were transferred to the Madras State Electricity Board in the reorganised set-up. The accounts of the Local Authority Electrical undertakings will continue to be audited to by the Examiner of Local Fund Accounts and will be submitted by the Examiner to the Board for transmission to the Government.

*Acquisition of Electrical undertakings—Payment of compensation.*—During the period under report, proposals for revision of compensation in respect of six Electrical undertakings were sent to Madras State Electricity Board/Government. Additional compensation was also declared in respect of two Electrical undertakings during the year.

*State Government loans to private electric licensees for rural electrification.*—A total loan of Rs. 27,02,140 was disbursed by the Government from their funds to five electric licensees as detailed below :—

| Serial number and name of Electric licensee.                              | Amount of loan sanctioned. |
|---------------------------------------------------------------------------|----------------------------|
|                                                                           | RS.                        |
| <b>I. South Madras Electric Supply Corporation, Limited—</b>              |                            |
| a .. .. .                                                                 | 11,28,380                  |
| b — .. .. .                                                               | 1,94,114                   |
| c .. .. .                                                                 | 2,02,140                   |
| <b>II. Tirunelveli-Tuticorin Electric Supply Company, Limited.</b>        | 3,87,000                   |
| <b>III. Salem-Erode Electricity Distribution Company, Limited, Salem.</b> | 3,60,508                   |
| <b>IV. Kumbakonam Electric Supply Corporation, Limited, Kumbakonam.</b>   | 2,50,000                   |
| <b>V. Vellore Electric Corporation, Limited .. ..</b>                     | 2,00,000                   |
| <b>Grand total ..</b>                                                     | <b>27,02,140</b>           |

*Transfer of licensees area for development by the Board.*—The South Madras Electric Supply Corporation, Limited and Vellore Electric Corporation, Limited, agreed to part with certain undeveloped area of supply to the Madras State Electricity Board.

*Reduction of rates of supply by electric licensees.*—The following five electric licensees reduced their rates for public lighting with effect from 1st April 1961 from 12.5 nP. per unit to 12.0 nP. per unit.

- (1) Tiruchirappalli-Srirangam Electric Licence.
- (2) Mayavaram-Mannargudi-Tiruvarur Electric Licence.
- (3) Tirunelveli-Tuticorin Electric Supply Company, Limited.
- (4) Kumbakonam Electric Supply Corporation, Limited.
- (5) Nagapatam Electric Supply Company, Limited, Nagapatam.

(b) Two electric licensees (viz.) The Tirunelveli-Tuticorin Electric Supply Company, Limited and Salem-Erode Electricity Distribution Company, Limited, reduced their rates during the year under report in respect of certain categories under High Tension and Low Tension supply.

(c) The proposal of the Madras State Electricity Board to consider and issue directions with reference to section 58 of the Electricity (Supply) Act, 1948, with regard to the proposal of the Coimbatore electric licensees regarding revision of rates of supply was approved by Government.

*Administration of Indian Electricity Act and Rules.*—During the year, the following inspections were conducted :—

|                                                     |     |
|-----------------------------------------------------|-----|
| (a) Private electric licensees undertakings .. .. . | 8   |
| (b) Local authorities .. .. .                       | 5   |
| (c) Neon signs .. .. .                              | 151 |
| (d) H.T. installations .. .. .                      | 62  |
| (e) H.T. routes .. .. .                             | 62  |

*Relaxation of Indian Electricity Rules, 1956.*—During the year exemptions were granted in two cases under rule 50 (1) (a) of the Indian Electricity Rules, 1956.

*Sanction under section 27 of the Indian Electricity Act.*—During the year this was accorded in 12 cases relating to the electric licensees in the State.

*Restriction and control.*—During the year cut in consumption of electricity was operative in varying degrees under grouping system of areas.

Permits for 323 cases were issued during the year and 38 permits were also revalidated.

*Iron, steel and cement.*—Necessary assistance to electric licensees in the matter of procurement of the above materials was continued to be given during the year.

#### *Electrical Standards Laboratory—*

##### *A.1. Laboratory tests—*

|                                                 |              |
|-------------------------------------------------|--------------|
| 1. Rotating sub-standard meters .. .. .         | 364          |
| 2. Commercial meters and instruments .. .. .    | 240          |
| 3. Transformers, oil samples .. .. .            | 72           |
| 4. Fire extinguishers .. .. .                   | 1,575        |
| 5. Magnets flashed .. .. .                      | 132          |
| 6. Horse-power tests on electric motors .. .. . | 3            |
| 7. Gloves tests .. .. .                         | 114          |
| 8. Current transformer tests .. .. .            | 8            |
|                                                 | <b>2,508</b> |

##### *II. Outdoor tests—*

|                               |              |
|-------------------------------|--------------|
| 1. High voltage tests .. .. . | 7            |
|                               | <b>2,515</b> |

Out of 364 R.S.S. meters tested at the laboratory, 263 were from the systems and the rest from the licensees and private organisations.

*B. High pressure D.C. tests* were carried out at the laboratory on the following :—

1. The stator windings of G.E.C. Alternator III and IV of the Kundah Power House II were tested for high pressure.

2. 6.6. KV. 3 core cable laid from Elephant Gate Kiosks to Corporation Electrical Workshop was tested.

3. Four Banks of 11 KV shunt capacitors were tested at Poonamalle Sub-station of Madras State Electricity Board.

4. 33 KV 3 core 0.25 square inch. P.I.L.C. and S.T.A. cable laid from Basin Bridge Power House to Buckingham and Carnatic Mills, 1,380 yards length was tested.

5. 33 KV 3 core 0.25 square inch. P.I.L.C. and S.T.A. cable laid from Basin Bridge Power House to Madras Port Trust having 6,000 yards length was tested.

6. Four Banks of 11 KV shunt capacitors having a total capacity of 2,000 KVA, erected at Arkonam sub-station, were tested.

*High pressure A.C. tests were carried out at the laboratory on the following.*—Seventy-two samples of transformer oil were tested.

Fifty-seven pairs of rubber gloves received from Inspector-General of Police and Fire Service Ambulance were tested.

## SECTION VIII—PERSONNEL ADMINISTRATION.

There was expansion of the organisation during the year owing to the increased activities.

As the workload in Vellore, Tiruchirappalli and Madras Electricity System (Distribution) increased, four Operation and Maintenance Divisions with headquarters at Chingleput, Dindigul, Villupuram and Korattur, respectively, were formed.

For attending to the speedy execution of construction works in the Operation and Maintenance Systems, one division for each of the Madurai, Tirunelvely and Tiruchirappalli Systems was sanctioned.

Due to the growing increase in the number of services, additional Revenue units in Vellore, Pykara, Mettur and Tiruchirappalli Systems were formed with headquarters at Arni, Arkonam, Pollachi, Namakkal and Cuddalore, respectively.

Consequent on the transfer of the Audit and Accounts of private electrical undertaking from the Chief Electrical Inspector to Government to the Board, one Chief Accountant with other compliments was sanctioned.

One Chief Accountant and one Deputy Chief Accountant were also sanctioned to the office of the Chief Controller of Accounts for attending to the increased accounts connected with Canadian Aid materials, etc.

Two Divisional Engineers were sanctioned for attending to the General, M.R.T. Division and special major maintenance work and power-houses under the control of Superintending Engineer (Generation) Hydro Areas, Erode.

One division was sanctioned for attending to the civil works in Madras Electricity System (Generation).

As the construction works have increased vastly one new construction circle was formed with headquarters at Villupuram bifurcating the General Construction Circle, Tiruchirappalli.

A Transmission Line Construction Division with headquarters at Tiruvannamalai was sanctioned bifurcating the Salem Transmission Line Construction Division.

Sanction was accorded for the formation of one new division with headquarters at Kancheepuram for attending the works of erection of sub-station and switchgear equipments.

To cope with the increased stores organisation, a separate stores co-ordinating officer was sanctioned for the General Construction Circle, Tiruchirappalli.

For attending the works relating to Parambikulam Aliyar Hydro-Electric Scheme, a separate circle was formed.

A division at Periyar was formed for attending to the construction works of the second stage extensions of Periyar Hydro-Electric Scheme.

For attending to the construction works relating to Kundah III stage extensions three circles were sanctioned with headquarters at Emerald, Kundah and Bhavani.

For taking over of Accounting functions from the Accountant-General, Madras and the Pay and Accounts Officer, a separate accounts wing under the direct control of the Board was formed.

An organisation chart of the Board as on 31st March 1962 is given in the opposite page. The details of the staff are also given in Appendix J.

#### RECRUITMENT.

*Tracers.*—Fifty vacancies were advertised for the posts of tracers by direct recruitment and in response thereto 116 applications were received. 83 qualified candidates were given a tracing test on 10th January 1962 and 55 candidates were selected.

*Draughtsmen, III Grade.*—Fifty vacancies were advertised for the posts of Draughtsmen, III Grade, by direct recruitment and in response thereto 117 applications were received. Sixty-nine qualified candidates were given a drawing test on 7th February 1962 and 35 candidates were selected.

*Improvements in service conditions—Revision of scales of pay and allowances.*—During the period under review, the Madras State Electricity Board revised the pay scales of its employees merging the bulk of dearness allowance with pay with effect from 28th December 1961 with liberalised pension and retiring benefit. The employees already in service were allowed the benefit of revision with retrospective effect from 1st June 1960 or date of appointment whichever was less if they choose to come over to the revised scales. The revised pay scales are detailed in Appendix Q.

A wage increase of 0.20 nP. per day with effect from 1st January 1962 was allowed to daily paid workers who are governed by the all-in-wages rates.

*Supply of uniforms.*—In addition to free supply of Khadi uniforms, sanction was accorded by Board for supply of one cumby to the eligible sanitary workers employed in Kundah, Emerald and Sandynallah and Upper Bhavani Circles.

*Conducting of sports, etc.*—Board sanctioned a sum of Rs. 13,000 (rupees thirteen thousand only) for conducting sports, entertainments, etc., in connection with the Republic Day Celebrations in 1962.

Sanction was accorded for payment to the Recreation Clubs of recurring and non-recurring grants as indicated below :—

| Name of club.                            | Recurring.<br>Rs. | Non-recurring<br>Rs. |
|------------------------------------------|-------------------|----------------------|
| (1)                                      | (2)               | (3)                  |
| 1 Staff Recreation Club, Tiruchy System. | 1,000 P.a.        | 5,000                |
| 2 Staff Recreation Club, Periyar .. ..   | 500 P.a.          | 1,500                |

With reference to paragraph (6) of Board's Proceedings Ms. No. 236, dated 16th February 1959, a total of more than 7,000 nominal muster roll has been specifically absorbed into Operation Subordinate Service.

The employees of the Madras State Electricity Board are eligible generally for the educational and medical concessions as admissible to Government servants.

#### UNION ACTIVITIES.

There were 19 registered trade unions and six Service Associations under the Madras State Electricity Board of which 11 unions were affiliated to the Tamilnad Electricity Workers' Federation. The unions affiliated to the Tamilnad Electricity Workers' Federation issued a notice of their intention to go on a token strike on or after 9th February 1962, if some of their demands were not conceded. The token strike which materialised was not successful as over 80 per cent of the staff attended duty on 9th February 1962—the day of strike.

#### RETIREMENT OF OFFICERS.

The Madras State Electricity Board granted extension of service till 31st May 1962 to Sri V. P. Appadurai, Chief Engineer for Electricity, who attained the age of superannuation on 22nd January 1962 forenoon.

Sri C. E. Prager, Chief Distribution Engineer, attained the age of superannuation on 28th June 1961 forenoon. Extension of service was granted to him from 28th June 1961 till 2nd July 1961 forenoon.

Sri P. A. Krishnan, Chief Operation Engineer, retired from service on attaining the age of superannuation on 17th September 1961 forenoon.

Sri S. N. Ramachandra Rao, Superintending Engineer on other duty in the Heavy Engineering Corporation, Ranche, retired from service on attaining the age of superannuation on 19th June 1961 forenoon.

Sri B. V. Ananda Rao, Chief Distribution Engineer, retired from service on attaining the age of superannuation on 9th February 1962 forenoon.

Sri K. Ramaswamy, Superintending Engineer, retired from service on attaining the age of superannuation on 15th August 1961 forenoon.

#### PROMOTION, POSTINGS, TRANSFERS AND LEAVE OF OFFICERS.

The headquarters of the post of Chief Construction Engineer was shifted from Madras to Kundah. Consequently Sri R. M. Thirumalaikolundu, Chief Construction Engineer, moved from Madras to Kundah in June 1961.

Sri C. E. Prager, Chief Distribution Engineer, held additional charge of the post of Chief Engineer for Electricity when Sri V. P. Appadurai, Chief Engineer for Electricity, was deputed to Canada during June and July 1961.

Sri B. V. Ananda Rao, Superintending Engineer, was promoted as Chief Distribution Engineer, with effect from 2nd July 1961, in the place of Sri C. E. Prager. Sri B. V. Ananda Rao, Chief Distribution Engineer proceeded on earned leave for 120 days with effect from 12th October 1961, preparatory to retirement on 9th February 1962.

Sri G. S. Rama Iyer, Superintending Engineer was promoted as Chief Operation Engineer with effect from 17th September 1961 in the place of Sri P. A. Krishnan.

Sri V. K. Sethuraman, Superintending Engineer was promoted as Chief Distribution Engineer from 12th October 1961 in the place of Sri B.V. Ananda Rao.

Sri S. Padmanabhan, Superintending Engineer, Tiruchirappalli Electricity System was on leave from 16th March 1961, forenoon to 30th May 1961 afternoon and on the expiry of the leave he was posted as Superintending Engineer, Tirunelveli System. Sri S. Padmanabhan assumed charge as Superintending Engineer, Tirunelveli System on 8th June 1961 relieving Sri N. Nagappa Nayak who proceeded on leave.

Sri N. Nagappa Nayak, Superintending Engineer, Papanasam Electricity System was transferred to Tirunelveli to form a new Operation and Maintenance System. He assumed charge as Superintending Engineer of the newly formed Circle at Tirunelveli on 22nd March 1961. He proceeded on leave from 8th June to 7th August 1961 and on the expiry of the leave he was posted as Superintending Engineer, Madurai Electricity System. He assumed charge as Superintending Engineer, Madurai Electricity System on 15th August 1961, *vice* Sri K. Ramaswami, retired from service.

The Electrical Circle of the Kundah Hydro-Electric Scheme was suppressed on 30th June 1961 and Sri S. Krishnaswamy, Superintending Engineer (Electrical), Kundah Hydro-Electric Scheme (Electrical Circle) was transferred and posted as Superintending Engineer (Generation), Hydro Areas, Erode. Sri S. Krishnaswamy assumed charge as Superintending Engineer (Generation), Hydro Areas, Erode, on 1st July 1961 afternoon.

Sri L. Meenakshisundaram, Divisional Engineer (Electrical), was promoted as Superintending Engineer and posted as Superintending Engineer, Vellore Electricity System *vice* Sri V. K. Sethuraman, promoted as Chief Distribution Engineer. Sri L. Meenakshisundaram assumed charge as Superintending Engineer, Vellore Electricity System, Vellore, on 11th September 1961.

Sri N.B. Vasudevan, Divisional Engineer (Electrical), on other duty under the Government of Pondicherry, Sri R. Ramachandra Pillai, Divisional Engineer (Electrical) on other duty under the Neyveli Lignite Corporation and Sri R. Krishnamoorthy, Divisional Engineer (Electrical), on other duty under the Central Water and Power Commission were promoted as Superintending Engineers under the Board without prejudice to their continuance under their respective foreign employers.

Sri R. Krishnamurthi, Superintending Engineer was granted leave from 26th December 1961 to 28th February 1962 and was reverted to the service of the Board from Central Water and Power Commission. On reversion from foreign service he was granted extension of leave from 1st to 15th March 1962. On the expiry of the leave he was posted as Superintending Engineer, General Construction Circle, Villupuram against the newly sanctioned post of Superintending Engineer, General Construction Circle, Villupuram. He assumed charge as Superintending Engineer, General Construction Circle, Villupuram on 21st March 1962.

Sri P. A. Raman, Divisional Engineer (Electrical) was promoted as Superintending Engineer and posted as Superintending Engineer (Distribution), Madras Electricity System, Madras, *vice* Sri G. S. Rama Iyer, who

was promoted as Chief Operation Engineer, Sri P. A. Raman assumed charge as Superintending Engineer (Distribution), Madras Electricity System on 17th September 1961.

Sri H. Raghavendra Rao, Superintending Engineer (Civil) who was on re-employment from 14th June 1959 to 13th December 1961 was re-employed for another year from 14th December 1961. He is now in charge of the Emerald Circle.

Sri H. Raghavendra Rao, Superintending Engineer, Emerald was on leave from 4th March to 4th May 1961 and from 12th to 19th March 1962.

Sri V. Thirunavukkarasu who was Superintending Engineer, Emerald from 4th March 1961 was reverted as Executive Engineer (Civil) with effect from 4th May 1961 for want of vacancy of Superintending Engineer when Sri H. Raghavendra Rao, Superintending Engineer, returned to duty on the expiry of the leave.

The headquarters of the Kundah Circle were shifted from Kundah Camp to Athikadavu. Consequently Sri G. Thirunavukkarasu, Superintending Engineer, Kundah, moved from Kundah Camp to Athikadavu on 13th December 1961, afternoon.

#### DEPUTATION.

Sri V. P. Appadurai, Chief Engineer for Electricity was deputed to Canada for eight weeks in June and July 1961 in connection with Kundah Hydro-Electric Scheme, Sri C. Sanjeevi, Assistant Engineer (Electrical), also accompanied Sri V. P. Appadurai, Chief Engineer for Electricity to Canada.

Sri V. P. Appadurai, Chief Engineer for Electricity was again deputed to Russia for two weeks in November and December 1961 in connection with the Mettur Tunnel Scheme. Sri A. T. Sreshta, Divisional Engineer (Electrical) also accompanied the Chief Engineer (Electricity) to Russia.

The following Engineers were deputed to foreign countries for technical training under the foreign assistance schemes

(i) Sri M. Arumugham, Divisional Engineer (Electrical) and Sri G. Mallikarjunan, Assistant Engineer (Electrical) who were deputed to the continent for training under U.N.T.A.A.O. Scheme, returned on 19th and 20th June 1961, respectively on completion of their training in Denmark, Norway, Sweden and Finland.

(ii) Sri P. K. Lakshminarasimhan, Assistant Engineer (Electrical) was deputed to France in June 1961 for training in Electrical Undertaking in France under the Indo-French Technical Co-operation Agreement Scheme. On completion of the training he returned in March 1962.

(iii) Sri M. Thirunavukkarasu, Divisional Engineer (Mechanical), was deputed to United Kingdom from 23rd May 1961 for training in the studies in Operation and maintenance of Thermal Station in United Kingdom under the Colombo Plan Scheme. On completion of the training on 23rd November 1961 he returned on 24th December 1961, afternoon.

Sri K. Jambulingam and Sri E. S. Narayanan, Assistant Engineers (Electrical) were deputed to Canada from 5th July 1961 for training in the studies in designs and technical offices, and Operation and Maintenance of Hydro-Power Stations in Canada under the Colombo Plan Scheme. On completion of the training they returned during the second week of January 1962.

Sri S. S. Kannan, Assistant Engineer (Electrical) was deputed to France from 25th May 1961 for training in the studies in Electrical Undertakings in France under the Indo-French Technical Co-operation Agreement Scheme. On completion of the training he returned on 24th March 1962.

Sri V. Rama Rao and Sri P. Bhoja Shetty, Assistant Engineers (Electrical) were deputed from 14th September 1961 to United States of America for training in the studies in generating stations, switchgear, transmission and distribution latest practices under the Point Four Programme. On completion of the training they returned during the last week of March 1962.

## SECTION IX—PROGRAMME FOR 1962-63.

Some of the important items of works programmed for the year 1962-63 are detailed below.

### PROJECTS.

*Kundah Hydro Electric Scheme.*—Upper Bhavani Works—Building masonry and concreting will be taken up and the tunnelling in diversion tunnel, invert concreting, reinforced cement concrete duct in cut and cover reach will be completed. Black topping of road will be completed.

About 2,840 units of excavation and 3,200 units of building masonry in Parson's valley dam and 2,650 units of excavation and 800 units of building masonry in Porthimund Dam will be completed.

Excavation for the Pegumbahalla Forebay Dam will be completed and 10,000 units of masonry will be laid.

Excavation for the Pillur Dam will also be completed.

Penstock erection, 75 per cent for Plant I and 25 per cent for Plant II will be completed. Grading of Penstock III will be completed, while concreting for anchors and piers will be in progress. Construction of tunnel III will be continued. Excavation of surge shaft will be completed and concreting will be in progress.

Excavation for machine foundation and manufacture of steel structure will be completed for Power House III.

*Mettur Tunnel Hydro Electric Scheme.*—Works connected with pressure tunnel, surge shaft, Power House excavation and foundation tail race pool and channel and the bridge across tail race channel will be completed.

The other works such as erection of steel structures, transformer yard, etc., will be completed by about 80 per cent.

*Sandynallah Reservoir Scheme.*—Construction of the dam and erection of pumps and motors will be taken up. Forming of reinforced cement concrete duct, earth tunnel, construction of pumpwell and erection of pipes will be completed. Periyar Hydro-Electric Scheme II Stage—Concreting, foundation for turbine and generators, concreting of anchors and piers, transporting and erection of penstock turbines and generators and erection of outdoor switchgear will be in progress.

*Transmission line and sub-stations.*—The following transmission lines will be completed.

1. Mettur-Salem 230 KV. S.C. line.
2. Neyveli-Tiruchirappalli 230 KV. S.C. line.
3. Thudiyalur-Madurai 230 KV. S.C. line.
4. Salem-Attur-Neyveli 110 KV. second circuit.
5. Korattur-Villupuram-Neyveli 110 KV. second circuit.
6. Periyar Kayattar 110 KV. second circuit.

## APPENDIX A.

CAPITAL OUTLAY ON ELECTRICITY SCHEMES WITH EXPENDITURE  
TO END OF MARCH 1962.

## PYKARA ELECTRICITY SYSTEM

| Serial<br>num-<br>ber. | Name of the scheme.                                                                                        | Expenditure<br>to end of<br>1960-61. | Expenditure<br>during<br>1961-62<br>(April 1961<br>to March 1962.) | Expenditure<br>to end of<br>1961-62. |
|------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------|--------------------------------------|
| (1)                    | (2)                                                                                                        | (3)                                  | (4)                                                                | (5)                                  |
|                        |                                                                                                            | RS.                                  | RS.                                                                | RS.                                  |
| 1                      | Pykara Hydro-Electric Scheme includ-<br>ing Generation (excluding Suspense).                               | 2,72,99,721                          | 4,81,348                                                           | 2,77,81,069                          |
| 2                      | Distribution of power in Pykara System                                                                     | 9,24,26,503                          | 92,49,179                                                          | 10,16,75,682                         |
| 3                      | Moyar Hydro-Electric Scheme .. ..                                                                          | 3,43,33,582                          | 3,58,415                                                           | 3,46,91,997                          |
| 4                      | Pykara Plant Extension III and Final<br>Stage.                                                             | 3,73,39,765                          | 12,56,016                                                          | 3,85,95,792                          |
| 5                      | Pykara Moyar Erode lines .. ..                                                                             | 70,55,849                            | 21                                                                 | 70,55,870                            |
| 6                      | Construction of III Circuit 110 K. V. line<br>from Pykara to Coimbatore and from<br>Coimbatore to Madurai. | 94,43,552                            | (—)9,991                                                           | 94,33,559                            |
| 7                      | Coimbatore-Madukkarai Palghat lines ..                                                                     | 28,74,159                            | (—)30,198                                                          | 20,43,961                            |
| 8                      | 66 K. V. double circuit line from Travan-<br>core-Cochine Border to Udumalpet.                             | 6,299                                | ..                                                                 | 6,299                                |
| 9                      | 66 K. V. Extension and Construction of<br>S. S. at Pollachi.                                               | 13,26,560                            | 1,227                                                              | 13,27,787                            |
| 10                     | Supply to South Kanara district from<br>Jog Falls.                                                         | 59,93,219                            | ..                                                                 | 59,93,219                            |
| 11                     | Mangalore Thermal Scheme .. ..                                                                             | 4,06,742                             | ..                                                                 | 4,06,742                             |
| 12                     | Palghat Electric supply Scheme .. ..                                                                       | 1,21,160                             | ..                                                                 | 1,21,160                             |
| 13                     | Supply to Mudugara Extensions .. ..                                                                        | 11,25,456                            | ..                                                                 | 11,25,456                            |
| 14                     | Supply to Mukurthy Dam .. ..                                                                               | 14,95,100<br>2,60,062                | ..                                                                 | 17,55,162                            |
| 15                     | Supply of power to Mathurai .. ..                                                                          | 22,63,415                            | ..                                                                 | 22,63,415                            |
| 16                     | Supply to Periyakulam, Theni and Bodi.                                                                     | 2,24,429                             | ..                                                                 | 2,24,429                             |
| 17                     | Supply of power to Gobichettipalayam<br>and other villages.                                                | 1,94,969                             | ..                                                                 | 1,94,969                             |
| 18                     | Additional generating set at Pykara ..                                                                     | 41,66,156                            | ..                                                                 | 41,66,156                            |
| 19                     | Power Development from Lower Bhavani<br>Project.                                                           | 14,98,445                            | ..                                                                 | 14,98,445                            |
| 20                     | Supply of power to Pulathoor, Kombai<br>and Pannaikadu.                                                    | 2,09,222                             | ..                                                                 | 2,09,222                             |
| 21                     | Extension of supply to West Coast ..                                                                       | 63,49,330                            | ..                                                                 | 63,49,330                            |
| 22                     | Supply to Kagguchi-Thummanahatti ..                                                                        | 1,76,869                             | ..                                                                 | 1,76,869                             |
| 23                     | Supply to Ithalar-Nanjanad .. ..                                                                           | 1,96,111                             | ..                                                                 | 1,96,111                             |
| 24                     | Supply of power to street lights and<br>domestic services in Gudalore area.                                | 95,538                               | ..                                                                 | 95,538                               |
| 25                     | Supply of power to Sadayampalayam and<br>Kallapalayam.                                                     | 3,73,748                             | 4,391                                                              | 3,78,139                             |
| 26                     | Supply of power to seventy-two wells in<br>Palangarai.                                                     | 1,85,481                             | ..                                                                 | 1,85,481                             |
| 27                     | Supply of power to Veerakkal-Vennam-<br>patty.                                                             | 2,69,012                             | ..                                                                 | 2,69,012                             |
| 28                     | Supply of power to Kugalur in Gobi-<br>chettipalayam taluk.                                                | 1,82,886                             | ..                                                                 | 1,82,886                             |
| 29                     | Supply of power to Mejnadi, etc., villages.                                                                | 2,56,173                             | ..                                                                 | 2,56,173                             |
| 30                     | Supply of power to Ramapatnam-<br>Mannur villages in Avanashi taluk.                                       | 6,33,914                             | (—) 7,615                                                          | 6,26,299                             |
| 31                     | Supply of power to Ottampalayam<br>villages.                                                               | 1,75,681                             | ..                                                                 | 1,75,681                             |
| 32                     | Supply of power to Thevaram-Kambai-<br>Pannaipuram.                                                        | 1,91,039                             | ..                                                                 | 1,91,039                             |

7. Trichy—Dalmia 110 KV. S.C. line.
8. Namakkal—Dalmia 110 KV. S.C. line.
9. Neyveli—Panruti 110 KV. S.C. line.
10. Madurai—Kayattar 110 KV. D.C. line.
11. 110 KV. S.C. Spur line to Kadaperi.
12. Villupuram—Arni—Kaveripauk—Kanchee 110 KV. S.C. line.
13. Sivaganga—Paramakudi 66 KV. S.C. line.
14. Singarappet—Karimangalam 66 KV. S.C. line.
15. Arni—Vellore 66 KV. Second circuit and Vadakathipatti Gudiyatham 66 KV. S.C. line.
16. Change over of Sembatti—Oddanchatram 66 KV. D.C. line for 110 K.V. S.C. operation.

Work on the following transmission lines will be in advance stage of progress.

1. Trichy—Madurai 230 KV. S.C. line.
2. Neyveli—Singarappet 230 KV. S.C. line.
3. Singarappet to Andhra State border 230 KV. S.C. line.
4. Singarappet to Mysore State border 230 KV. S.C. line.
5. Madurai to Kerala State Border 230 KV. S.C. line.
6. Singarappet—Korattur 110 KV. S.C. line.
7. Udumalpet—Dharapuram—Erode 110 KV. S.C. line.
8. Neyveli—Mayavaram—Thiruvarur 110 KV. S.C. line.
9. Trichy—Thiruverambur 110 KV. S.C. line.
10. Madurai—Thirumangalam—Rajapalayam—Tenkasi—Papanasam 66 KV. S.C. line II Circuit.
11. Sembatti—Natham 66 KV. S.C. line.
12. Paramakudi—Uchipalli 66 KV. S.C. line.
13. Karaikudi—Avudayarkoil Thiruthuraiipoondi 66 KV. S.C. line.
14. Change over of Trichy—Dalmia 66 KV. S.C. line for 110 KV. operation.

New 110 KV. Sub-stations at Trichy, Madurai, Panruti, Arni, Thuraiyur, Dalmia, Ramarajapuram, Tiruvarur, Kurumbur and Tiruvarambur and 66 KV. sub-stations at Vellore, Gudiyatham, Vaniyambadi, Thiyagadurgam, Paramakudi, Ayyermalai, Avudaiyarkoil, Tiruthuraiipoondi and Velupalli will be commissioned during the year apart from extensions to a number of existing sub-stations.

## RURAL ELECTRIFICATION.

Electricity will be extended to additional 1,600 Villages and hamlets. Not less than 20,000 pumpsets will be connected up during the year.

## GENERAL.

Normal maintenance on all the existing transmission and distribution lines, including sub-station equipments, overhaul of all the generating sets, etc., in the power houses will be carried out and inspected periodically.

## APPENDIX A—cont.

CAPITAL OUTLAY ON ELECTRICITY SCHEMES WITH EXPENDITURE  
TO END OF MARCH 1962—cont.

## PYKARA ELECTRICITY SYSTEM—cont.

| Serial number. | Name of the scheme.                                                     | Expenditure to end of 1960-61. | Expenditure during 1961-62 (April 1961 to March 1962.) | Expenditure to end of 1961-62. |
|----------------|-------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------|--------------------------------|
| (1)            | (2)                                                                     | (3)<br>RS.                     | (4)<br>RS.                                             | (5)<br>RS.                     |
| 33             | Supply of power to Nilambur-Manjeri ..                                  | 2,62,398                       | ..                                                     | 2,62,398                       |
| 34             | Supply of power to Kallangode-Vadavanoor.                               | 5,70,267                       | ..                                                     | 5,70,267                       |
| 35             | Supply of power to Tiru-Ponneri ..                                      | 9,90,991                       | ..                                                     | 9,90,991                       |
| 36             | Supply of power to Alathur ..                                           | 4,75,912                       | ..                                                     | 4,75,912                       |
| 37             | Supply of power to Manikundu-Sabbalapuram.                              | 2,16,050                       | ..                                                     | 2,16,050                       |
| 38             | Mukki, etc., villages ..                                                | 5,21,908                       | ..                                                     | 5,21,908                       |
| 39             | Kollegal Distribution Scheme ..                                         | 2,45,382                       | ..                                                     | 2,45,382                       |
| 40             | Supply of power to Meppadi-Vythiri and Kalpatti in Uynadu area.         | 3,02,541                       | ..                                                     | 3,02,541                       |
| 41             | Supply of power from Singanallur Sub-station.                           | 26,88,139                      | ..                                                     | 26,88,139                      |
| 42             | Supply of power to Improvement to Port Cochin.                          | 1,43,622                       | ..                                                     | 1,43,622                       |
| 43             | Supply of power to Mangalore-Bunt-wall.                                 | 2,04,412                       | ..                                                     | 2,04,412                       |
| 44             | Supply of power to Udipi-Kanchoo Scheme.                                | 8,25,025                       | ..                                                     | 8,25,025                       |
| 45             | Supply of power to Malappuram-Majiri.                                   | 1,37,158                       | ..                                                     | 1,37,158                       |
| 46             | Supply of power from Mangalore to Puthur.                               | 1,640                          | ..                                                     | 1,640                          |
| 47             | Supply of power to Porchall ..                                          | 6,105                          | ..                                                     | 6,105                          |
| 48             | Supply of power to Kodaiyur-Vadasinnarapalayam.                         | 1,47,504                       | ..                                                     | 1,47,504                       |
| 49             | Supply of power to Kavalipalayam ..                                     | 2,61,186                       | ..                                                     | 2,61,186                       |
| 50             | Supply of power to Kumarpalayam, Medappadi villages.                    | 1,02,769                       | 3,049                                                  | 1,05,758                       |
| 51             | Extension of supply to Chatrapatti-Vadur villages.                      | 4,284                          | (—)2,986                                               | 1,298                          |
| 52             | Extension of H. T. supply to Parambikulam-Aliyar Project.               | 11,55,397                      | 60,907                                                 | 12,16,304                      |
| 53             | Supply of power to Karmapuram-Bodipalayam.                              | 90,089                         | 81,988                                                 | 1,72,077                       |
| 54             | Supply of power to Avanshipuram-Pallapalayam.                           | 99,939                         | 77,441                                                 | 1,77,380                       |
| 55             | Supply of South Indian Viscose Limited.                                 | 1,65,848                       | 33,241                                                 | 1,99,089                       |
| 56             | Supply of power to Ganeshpuram, etc., villages in Dharapuram taluk.     | 1,42,823                       | 71,275                                                 | 2,14,098                       |
| 57             | Supply of power to Sankaranpalayam, etc., villages in Dharapuram taluk. | ..                             | 2,17,992                                               | 2,17,992                       |
| 58             | Supply of power to Koothampoondy, etc. villages.                        | ..                             | 1,53,383                                               | 1,53,383                       |
| 59             | Supply of power to Vanjipalayam, etc., villages in Dharapuram taluk.    | ..                             | 98,645                                                 | 98,645                         |
| 60             | Acquisition of Electrical Undertakings Suspense.                        | 1,20,294                       | ..                                                     | 1,20,294                       |
|                |                                                                         | 1,38,04,134                    | 6,64,027                                               | 1,44,68,161                    |
|                | Total ..                                                                | 26,20,35,954                   | 1,27,61,755                                            | 27,47,97,709                   |

## APPENDIX A—cont.

CAPITAL OUTLAY ON ELECTRICITY SCHEMES WITH EXPENDITURE  
TO END OF MARCH 1962—cont.

## METTUR ELECTRICITY SYSTEM.

| Serial number. | Name of the scheme.                  | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|--------------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                                  | (3)<br>RS.                     | (4)<br>RS.                  | (5)<br>RS.                     |
| 1              | Mettur Main Scheme ..                | 2,86,39,892                    | 11,11,894                   | 2,97,51,786                    |
| 2              | Mettur IV unit ..                    | 14,55,229                      | ..                          | 14,55,229                      |
| 3              | Loss due to enemy action ..          | 62,519                         | ..                          | 62,519                         |
| 4              | Extension to office buildings ..     | 35,371                         | ..                          | 35,371                         |
| 5              | Distribution of power ..             | 7,05,54,113                    | 79,04,119                   | 7,84,58,232                    |
| 6              | Erode-Tiruchirappalli Extensions ..  | 13,72,166                      | ..                          | 13,72,166                      |
| 7              | Tiruchirappalli-Nagapattinam ..      | 21,82,817                      | ..                          | 21,82,817                      |
| 8              | Karur Electric Supply Scheme ..      | 78,049                         | ..                          | 78,049                         |
| 9              | Mettur-Salem-Erode ..                | 4,85,821                       | 2,097                       | 4,87,918                       |
| 10             | Kumarpalayam Extension ..            | 2,35,018                       | ..                          | 2,35,018                       |
| 11             | Rasipuram Extension ..               | 72,886                         | ..                          | 72,886                         |
| 12             | Veerapandi Firka ..                  | 4,07,155                       | 8                           | 4,07,163                       |
| 13             | Workshop Expansion Scheme ..         | 14,20,709                      | ..                          | 14,20,709                      |
| 14             | Usampadi-Nallivally ..               | 1,78,852                       | ..                          | 1,78,852                       |
| 15             | Sendamangalam ..                     | 1,93,573                       | ..                          | 1,93,573                       |
| 16             | Mettur-Madras Inter-connection ..    | 2,16,23,710                    | 34,333                      | 2,16,58,043                    |
| 17             | Ponnithangal Agaram ..               | 2,90,020                       | ..                          | 2,90,020                       |
| 18             | Unjallur-Kolathupalayam ..           | 1,84,206                       | ..                          | 1,84,206                       |
| 19             | Pollur-Govindavadi ..                | 2,40,111                       | 217                         | 2,40,328                       |
| 20             | Ohinnampatty-Kithampatty ..          | 3,53,679                       | ..                          | 3,53,679                       |
| 21             | Kadiranalur-Kannerpatti ..           | 2,37,188                       | 515                         | 2,37,603                       |
| 22             | Mallasamudram-Mangalam ..            | 6,46,675                       | 1,063                       | 6,47,738                       |
| 23             | Mannekkal ..                         | 1,68,141                       | 166                         | 1,68,307                       |
| 24             | Sallepillaikutti-Pagalpatti ..       | 1,14,497                       | 588                         | 1,15,085                       |
| 25             | Kalavi-Samalpatti ..                 | 1,83,408                       | (—)614                      | 1,82,794                       |
| 26             | Vangal-Kuppachipalayam ..            | 3,00,112                       | ..                          | 3,00,112                       |
| 27             | Mallur ..                            | 1,93,133                       | (—) 2                       | 1,93,131                       |
| 28             | Thoppupatti ..                       | 2,70,620                       | 206                         | 2,70,826                       |
| 29             | Kondalampatty Padur ..               | 1,62,125                       | (—)1,835                    | 1,60,290                       |
| 30             | Maligarpattu-Vedandillur ..          | 1,00,711                       | (—)1,200                    | 99,511                         |
| 31             | Harur-Pappireddipatti ..             | 7,48,188                       | ..                          | 7,48,188                       |
| 32             | Kadambakurichi ..                    | 1,76,834                       | ..                          | 1,76,834                       |
| 33             | Erode-Salem ..                       | 25,31,176                      | ..                          | 25,31,176                      |
| 34             | Erode-Tiruchirappalli-Dalmiapuram .. | 50,21,159                      | ..                          | 50,21,159                      |
| 35             | Hosur-Dingathikottai ..              | 5,76,450                       | 36                          | 5,76,486                       |
| 36             | Tanjore-Mayuram-Chidambaram ..       | 34,69,682                      | ..                          | 34,69,682                      |
| 37             | Pattanam ..                          | 2,88,796                       | (—)3,116                    | 2,85,680                       |
| 38             | Vallakundram ..                      | 1,59,928                       | (—) 577                     | 1,59,351                       |
| 39             | Ammapalayam-Kathukottai ..           | 3,38,063                       | 16,558                      | 3,54,627                       |
| 40             | S.M.E.S. Corporation ..              | 2,06,408                       | 1,191                       | 2,07,592                       |
| 41             | Attayampatti-Papparpatti ..          | 1,76,542                       | 359                         | 1,76,901                       |
| 42             | Keeripatty ..                        | 2,07,112                       | 481                         | 2,07,598                       |

## APPENDIX A—cont.

CAPITAL OUTLAY ON ELECTRICITY SCHEMES WITH EXPENDITURE  
TO END OF MARCH 1962—cont.

## METTUR ELECTRICITY SYSTEM—cont.

| Serial number. | Name of the scheme.                          | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|----------------------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                                          | (3)                            | (4)                         | (5)                            |
|                |                                              | RS.                            | RS.                         | RS.                            |
| 43             | Velapady-Muthampatty .. ..                   | 2,18,724                       | 2,111                       | 2,20,835                       |
| 44             | Palmedu-Akkarsipatti .. ..                   | 2,47,569                       | 421                         | 2,47,990                       |
| 45             | Perianmalai-Chinnamalai .. ..                | 2,16,500                       | 211                         | 2,16,711                       |
| 46             | Kamalapuram Extensions .. ..                 | 1,59,550                       | 2,034                       | 1,61,584                       |
| 47             | Pudupalayam-Kathamachampatty .. ..           | 2,91,698                       | (—) 322                     | 2,91,376                       |
| 48             | Chandrasekarapuram .. ..                     | 2,23,282                       | (—) 2,772                   | 2,19,510                       |
| 49             | Orubandur-Sankarampalayam .. ..              | 1,44,077                       | ..                          | 1,44,077                       |
| 50             | Ennamangalam Extensions .. ..                | 2,65,282                       | 480                         | 2,65,762                       |
| 51             | Kavandampady Extensions .. ..                | 1,60,928                       | 416                         | 1,61,344                       |
| 52             | Malai-Veppanputty Extensions .. ..           | 1,81,313                       | 6,335                       | 1,87,648                       |
| 53             | Ariyagoundampatti Extensions .. ..           | 2,99,251                       | 6,388                       | 3,05,639                       |
| 54             | Nanyi-Uthukili Extensions .. ..              | 2,59,112                       | (—) 1,652                   | 2,57,460                       |
| 55             | Manji-Nallampatty .. ..                      | 1,69,237                       | ..                          | 1,69,237                       |
| 56             | Palacole Extensions .. ..                    | 3,16,195                       | (—) 1,826                   | 3,14,369                       |
| 57             | Madhamangalam-Lalugam .. ..                  | 1,52,335                       | 419                         | 1,52,804                       |
| 58             | Thammampatty .. ..                           | 2,06,297                       | 1,282                       | 2,07,579                       |
| 59             | Olapady-Thennampillayur .. ..                | 2,26,813                       | 1,952                       | 2,28,765                       |
| 60             | Karambakkudi .. ..                           | 1,91,104                       | ..                          | 1,91,104                       |
| 61             | Pillannallur-Gursampalayam .. ..             | 2,45,304                       | 2,746                       | 2,48,050                       |
| 62             | Koothampoodi and Kulamani .. ..              | 2,07,904                       | 10,031                      | 2,17,935                       |
| 63             | Seshenchavadi .. ..                          | 1,37,245                       | 415                         | 1,37,660                       |
| 64             | Adamankottai .. ..                           | 1,62,690                       | 860                         | 1,63,550                       |
| 65             | Pattanam Sellappampatty .. ..                | 2,19,370                       | (—) 529                     | 2,18,841                       |
| 66             | Belukurichi .. ..                            | 2,25,894                       | 3,557                       | 2,29,451                       |
| 67             | Veeranganur Extensions .. ..                 | 2,38,423                       | (—) 3,578                   | 2,34,845                       |
| 68             | Mittahalli Hurmihalli .. ..                  | 2,58,231                       | 2,815                       | 2,61,046                       |
| 69             | Pappambady Extensions .. ..                  | 1,08,229                       | 22,668                      | 1,30,897                       |
| 70             | Belur and Kurichi .. ..                      | 2,05,060                       | (—) 3,160                   | 2,01,900                       |
| 71             | Pennagaram Extensions .. ..                  | 2,31,198                       | 3,662                       | 2,34,860                       |
| 72             | Maharajakadi .. ..                           | 2,16,043                       | (—) 338                     | 2,15,705                       |
| 73             | Papparpatti .. ..                            | 1,66,706                       | (—) 11,623                  | 1,78,329                       |
| 74             | Pudupatti Extension .. ..                    | 3,16,255                       | 12,536                      | 3,28,791                       |
| 75             | Supply to Karalipalayam .. ..                | 79,122                         | (+) 1,012                   | 80,134                         |
| 76             | Supply to Mudathurai Iromberai .. ..         | 1,94,040                       | ..                          | 1,94,040                       |
| 77             | Supply to Kadayur Vadasinnaiyalayam .. ..    | 29,703                         | 1,299                       | 31,002                         |
| 78             | Supply to Koshanam and Kadachi-palayam .. .. | 77,861                         | (—) 5,787                   | 71,874                         |
| 79             | Vadakuppangal .. ..                          | (—) 5,099                      | ..                          | (—) 5,099                      |
| 80             | Ayapudi Peruvalayam .. ..                    | 252                            | ..                          | 252                            |
| 81             | Nallavampalayam .. ..                        | 1,504                          | ..                          | 1,504                          |
| 82             | Avalurpet .. ..                              | (—) 25                         | ..                          | (—) 25                         |
| 83             | Parayapatti .. ..                            | 23,666                         | 10,349                      | 34,015                         |
| 84             | Kandil Narayanesi .. ..                      | (—) 105                        | ..                          | (—) 105                        |

## APPENDIX A—cont.

CAPITAL OUTLAY ON ELECTRICITY SCHEMES WITH EXPENDITURE  
TO END OF MARCH 1962—cont.

## METTUR ELECTRICITY SYSTEM—cont.

| Serial number. | Name of the scheme.                         | Expenditure to end of 1960-61. | Expenditure during 1961-62 (April 1961 to March 1962.) | Expenditure to end of 1961-62. |
|----------------|---------------------------------------------|--------------------------------|--------------------------------------------------------|--------------------------------|
| (1)            | (2)                                         | (3)                            | (4)                                                    | (5)                            |
|                |                                             | RS.                            | RS.                                                    | RS.                            |
| 85             | Venkadasomudram-Palliyatti Exten-<br>sions. | 2,58,009                       | ..                                                     | 2,58,009                       |
| 86             | Pannikaranpalayam .. ..                     | 1,59,614                       | (—) 10,960                                             | 1,48,654                       |
| 87             | Vengalakodai .. ..                          | 12,183                         | ..                                                     | 12,183                         |
| 88             | Nemili Extensions .. ..                     | ..                             | ..                                                     | ..                             |
| 89             | Kugalur .. ..                               | 826                            | 505                                                    | 1,331                          |
| 90             | Kallakurichi .. ..                          | (—) 2,603                      | ..                                                     | (—) 2,603                      |
| 91             | Valathur .. ..                              | 63                             | ..                                                     | 63                             |
| 92             | Kakaneri .. ..                              | 1,77,597                       | (—) 2,763                                              | 1,74,834                       |
| 93             | Thulukkanur .. ..                           | 2,16,704                       | 2,841                                                  | 2,19,545                       |
| 94             | Brahmadewam .. ..                           | 2,33,335                       | 10,323                                                 | 2,43,658                       |
| 95             | Salaiputhur .. ..                           | 1,46,595                       | (—) 8,591                                              | 1,38,004                       |
| 96             | Adaiyar .. ..                               | 1,77,037                       | 17,946                                                 | 1,94,983                       |
| 97             | Sandarapatty .. ..                          | 3,01,214                       | 58,813                                                 | 3,60,027                       |
| 98             | Manivillantham .. ..                        | 2,56,080                       | (—) 3,939                                              | 2,52,141                       |
| 99             | Kalappanaickenpatty .. ..                   | 1,86,989                       | 18,139                                                 | 2,05,128                       |
| 100            | Marandapalli .. ..                          | 1,17,114                       | 39,344                                                 | 1,56,458                       |
| 101            | Thalli .. ..                                | 80,306                         | 11,954                                                 | 92,259                         |
| 102            | Thirumalligiri .. ..                        | 64,976                         | 57,108                                                 | 1,22,084                       |
| 103            | Kadathur .. ..                              | 1,80,464                       | 17,648                                                 | 1,98,112                       |
| 104            | Singapuram .. ..                            | 2,46,926                       | 44,811                                                 | 2,91,737                       |
| 105            | Marakottai .. ..                            | 1,79,476                       | 72,609                                                 | 2,52,085                       |
| 106            | Palangarai .. ..                            | ..                             | ..                                                     | 2                              |
| 107            | 10 Distribution under Harur Scheme..        | 2,11,710                       | 1,13,616                                               | 3,25,326                       |
| 108            | Salem-Namakkal .. ..                        | 30,49,745                      | 1,42,287                                               | 31,92,032                      |
| 109            | Singarapet-Villupuram .. ..                 | 74,67,698                      | 24,585                                                 | 73,92,283                      |
| 110            | Erode-Tiruchirappalli change over .. ..     | 16,76,853                      | 1,908                                                  | 16,78,761                      |
| 111            | Kariamangalam sub-station .. ..             | 3,34,800                       | 6,46,788                                               | 9,81,588                       |
| 112            | Vadakumari-Thenkumari .. ..                 | 1,05,659                       | 1,23,466                                               | 2,29,125                       |
| 113            | Kondyampatty .. ..                          | 97,942                         | 71,005                                                 | 1,68,947                       |
| 114            | Sekkadiipatty-Vallapatty .. ..              | 73,609                         | 70,467                                                 | 1,44,076                       |
| 115            | Kattukottai .. ..                           | 11,534                         | 1,06,180                                               | 1,17,714                       |
| 116            | Thalugar extension .. ..                    | 1,52,674                       | 1,88,579                                               | 3,41,253                       |
| 117            | Mangalapuram .. ..                          | 65,840                         | 93,428                                                 | 1,59,268                       |
| 118            | Kudalapatti .. ..                           | 62,180                         | 92,079                                                 | 1,54,259                       |
| 119            | Velavantai-Kambam .. ..                     | 52,715                         | ..                                                     | 52,715                         |
| 120            | Lakkerpuram-Eddambanthur .. ..              | 20,656                         | 3,716                                                  | 24,372                         |
| 121            | Odathur .. ..                               | 62,494                         | 96,601                                                 | 1,59,095                       |
| 122            | Nanjai Kalamangalam .. ..                   | 75,879                         | 82,793                                                 | 1,58,672                       |
| 123            | Pallapatti .. ..                            | 89,859                         | 37,810                                                 | 1,27,669                       |
| 124            | Osar Extension .. ..                        | (—) 3,831                      | ..                                                     | (—) 3,831                      |
| 125            | Buthireddy Patti .. ..                      | 32,226                         | 35,550                                                 | 67,776                         |
| 126            | Jagadevi .. ..                              | 22,153                         | 67,545                                                 | 89,                            |

## APPENDIX A—cont.

CAPITAL OUTLAY ON ELECTRICITY SCHEMES WITH EXPENDITURE  
TO END OF MARCH 1962—cont.

## METTUR ELECTRICITY SYSTEM—cont.

| Serial<br>num-<br>ber. | Name of the scheme.                               | Expenditure<br>to end of<br>1960-61. | Expenditure<br>during<br>1961-62. | Expenditure<br>to end of<br>1961-62. |
|------------------------|---------------------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|
| (1)                    | (2)                                               | (3)                                  | (4)                               | (5)                                  |
|                        |                                                   | RS.                                  | RS.                               | RS.                                  |
| 127                    | Parakaller, Palayam .. ..                         | 79,390                               | 142                               | 79,532                               |
| 128                    | Veerapandi .. ..                                  | 842                                  | ..                                | 842                                  |
| 129                    | Nadupatty .. ..                                   | 12,794                               | 1,01,760                          | 1,14,554                             |
| 130                    | Velvanthai Kambai .. ..                           | 3,427                                | 1,05,804                          | 1,09,231                             |
| 131                    | Peripatti, Nadandikorar .. ..                     | 1,52,541                             | 1,77,373                          | 3,29,914                             |
| 132                    | Neerunulli Kullai .. ..                           | ..                                   | 1,58,516                          | 1,58,516                             |
| 133                    | Chittore in Sankari taluk .. ..                   | ..                                   | 55,752                            | 55,752                               |
| 134                    | Veppampatti .. ..                                 | ..                                   | 43,362                            | 43,362                               |
| 135                    | Jakkasamudram .. ..                               | ..                                   | 51,526                            | 51,526                               |
| 136                    | Gobinathampatti .. ..                             | ..                                   | 1,987                             | 1,987                                |
| 137                    | Kodappasanthampatti .. ..                         | ..                                   | 53,227                            | 53,227                               |
| 138                    | Leelaiyampatti .. ..                              | ..                                   | 57,143                            | 57,143                               |
| 139                    | Veppilampatti, Sandur .. ..                       | ..                                   | 3,646                             | 3,646                                |
| 140                    | Thogarapally .. ..                                | ..                                   | 18,145                            | 18,145                               |
| 141                    | Naduvalur .. ..                                   | ..                                   | 27,529                            | 27,529                               |
| 142                    | Kuripatti (additional loads.) .. ..               | ..                                   | 29,762                            | 29,762                               |
| 143                    | Sircar Kohula, Nathamangalam .. ..                | ..                                   | 43,551                            | 43,551                               |
| 144                    | Mallapuram .. ..                                  | ..                                   | 28                                | 28                                   |
| 145                    | Mayanur Periakallupalayam .. ..                   | ..                                   | 79,406                            | 79,406                               |
|                        | Lump-sum provision for payment of<br>undertaking. | 16,67,912                            | ..                                | 16,67,912                            |
|                        | Total ..                                          | 17,22,73,838                         | 1,24,85,021                       | 18,47,58,859                         |
|                        | Suspense ..                                       | 1,92,73,836                          | 15,59,860                         | 2,08,33,196                          |
|                        | Grand total ..                                    | 19,15,47,173                         | 1,40,44,881                       | 20,55,92,054                         |

## MADURAI ELECTRICITY SYSTEM.

|    |                                                   |             |           |             |
|----|---------------------------------------------------|-------------|-----------|-------------|
| 1  | Papanasam-Hydro Electric Scheme ..                | 2,67,45,225 | 14,72,072 | 2,82,17,297 |
| 2  | Distribution of power .. ..                       | 5,70,96,052 | 60,76,351 | 6,31,72,403 |
| 3  | Supply of power to Madurai .. ..                  | 9,69,567    | ..        | 9,69,567    |
| 4  | Supply of power to Ramanathapuram ..              | 4,12,692    | ..        | 4,12,692    |
| 5  | Supply of power to Sholavandan .. ..              | 1,95,228    | ..        | 1,95,228    |
| 6  | Supply of power to Shankarnagar .. ..             | 2,79,275    | ..        | 2,79,275    |
| 7  | Supply of power to Chinnamanyachi ..              | 3,17,525    | ..        | 3,17,525    |
| 8  | Supply of power to Venkatesamudram ..             | 2,28,028    | ..        | 2,28,028    |
| 9  | Supply of power to Koilpatti .. ..                | 5,15,176    | ..        | 5,15,176    |
| 10 | Supply of power to Malli Firka .. ..              | 3,31,090    | ..        | 3,31,090    |
| 11 | Supply of power to Kadayannallur .. ..            | 5,20,260    | ..        | 5,20,260    |
| 12 | Supply of power to Kunnathur, Kallu-<br>patti.    | 2,71,222    | ..        | 2,71,222    |
| 13 | Supply of power to Mandapam, Rama-<br>nathapuram. | 2,91,882    | ..        | 2,91,882    |

## APPENDIX A—cont.

Capital outlay on Electricity Schemes with expenditure to end of March  
1962—cont.

## MADURAI ELECTRICITY SYSTEM—cont.

| Serial<br>num-<br>ber. | Name of the scheme.                                          | Expenditure<br>to end of<br>1960-61. | Expenditure<br>during<br>1961-62. | Expenditure<br>to end of<br>1961-62. |
|------------------------|--------------------------------------------------------------|--------------------------------------|-----------------------------------|--------------------------------------|
| (1)                    | (2)                                                          | (3)                                  | (4)                               | (5)                                  |
|                        |                                                              | RS.                                  | RS.                               | RS.                                  |
| 14                     | Supply of power to Keelarajakula-<br>raman.                  | 3,78,972                             | ..                                | 3,78,972                             |
| 15                     | Supply of power to Kalkurichi, Johil<br>Patti.               | 2,57,786                             | ..                                | 2,57,786                             |
| 16                     | Supply of power to North Malli Firka ..                      | 4,13,802                             | ..                                | 4,13,802                             |
| 17                     | Supply of power to Melakallur, Nangu-<br>neri.               | 4,25,822                             | (—) 125                           | 4,25,697                             |
| 18                     | Supply of power to Vandiyur, Othakadai.                      | 1,97,595                             | ..                                | 1,97,595                             |
| 19                     | Supply of power to Suranthai, Sundara-<br>pandiapuram.       | 9,39,214                             | ..                                | 9,39,214                             |
| 20                     | Supply of power to Watrap, Kakki-<br>vadampatti.             | 4,30,688                             | ..                                | 4,30,688                             |
| 21                     | Supply of power to Alanganallur, Pela-<br>medu.              | 4,15,243                             | 51                                | 4,15,294                             |
| 22                     | Supply of power to Rameshwaram ..                            | (—) 11,106                           | ..                                | (—) 11,106                           |
| 23                     | Supply of power to Sathankudi, Chetti-<br>patti.             | 2,05,581                             | ..                                | 2,05,581                             |
| 24                     | Supply of power to Seithur, Devatha-<br>vam.                 | 4,32,021                             | ..                                | 4,32,021                             |
| 25                     | Supply of power to Pampoli, Vadakarai.                       | 1,39,864                             | ..                                | 1,39,864                             |
| 26                     | Supply of power to Pallapatti, Thodaneri,<br>Chittalankulam. | 7,85,325                             | (—) 118                           | 7,85,207                             |
| 27                     | Supply to Alangulam, Nettur .. ..                            | 2,45,848                             | ..                                | 2,45,848                             |
| 28                     | Supply of power to Alagarkoil, Kidari-<br>patti.             | 2,65,328                             | ..                                | 2,65,328                             |
| 29                     | Supply of power to Erappaneri, etc.<br>villages.             | 1,04,219                             | ..                                | 1,04,219                             |
| 30                     | Supply of power to Sivagiri, Viswanatha-<br>puram.           | 3,22,037                             | ..                                | 3,22,037                             |
| 31                     | Supply of power to Piranmalai, etc.<br>villages.             | 2,37,297                             | ..                                | 2,37,297                             |
| 32                     | Supply of power to Rajagiri, Ramanatha-<br>puram.            | 2,91,502                             | ..                                | 2,91,502                             |
| 33                     | Supply of power to Muthukulathur, Perai-<br>yur.             | 2,27,667                             | (—) 40,305                        | 1,87,362                             |
| 34                     | Supply of power to Sivagalai, Perun-<br>gulam.               | 1,28,043                             | ..                                | 1,28,043                             |
| 36                     | Supply of power to Chenniampatti,<br>Kad'aladi.              | 1,65,118                             | ..                                | 1,65,118                             |
| 37                     | Madurai thermal station .. ..                                | 1,21,34,420                          | (—) 626                           | 1,21,33,794                          |
| 38                     | Madurai, Vilathikulam .. ..                                  | 1,86,294                             | ..                                | 1,86,294                             |
| 39                     | Madurai, Palaiyur Saptur .. ..                               | 4,40,839                             | ..                                | 4,40,839                             |
| 40                     | Madurai, Moovaraivendran .. ..                               | 5,27,521                             | ..                                | 5,27,521                             |
| 41                     | Madurai, Nagampatti, Pesvanthanai ..                         | 2,86,039                             | ..                                | 2,86,039                             |
| 42                     | Madurai, Sirugudi, Sengulam .. ..                            | 2,27,900                             | (—) 100                           | 2,27,800                             |
| 43                     | Madurai, V. Belt Factory, Kochadai ..                        | 2,56,222                             | ..                                | 2,56,222                             |
| 44                     | Madurai, Rajakkamangalam .. ..                               | 1,67,174                             | ..                                | 1,67,174                             |

## APPENDIX A—cont.

## Capital outlay on Electricity Schemes with expenditure to end of March 1962—cont.

## MADURAI ELECTRICITY SYSTEM—cont.

| Serial number. | Name of the scheme.                                | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|----------------------------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                                                | (3)                            | (4)                         | (5)                            |
|                |                                                    | RS.                            | RS.                         | RS.                            |
| 45             | Madurai, Chettikurichi, Pandalkudi ..              | 1,92,890                       | 235                         | 1,93,125                       |
| 46             | Madurai, Pettikulam, Matharuthamoshi.              | 1,36,785                       | 4,629                       | 1,41,414                       |
| 47             | Madurai, Kandangulam, Kariyandi ..                 | 1,97,514                       | 4,037                       | 2,01,551                       |
| 48             | Madurai, Sulapuram, Mallapuram ..                  | 2,12,220                       | (—) 5,126                   | 2,07,094                       |
| 49             | Madurai, Puthur, Nallamangalam ..                  | 1,46,738                       | 8                           | 1,46,746                       |
| 50             | Madurai, Perunati, Palangal ..                     | 1,52,535                       | (—) 5,398                   | 1,47,137                       |
| 51             | Madurai, Walajabad to Sathangulam ..               | ..                             | ..                          | ..                             |
| 52             | Madurai, M/s India Cement Factory, Thulukkappatti. | 5,93,883                       | 2,34,537                    | 8,28,420                       |
| 53             | Madurai Erection 11 KV. kiosk at Pasu-malai.       | ..                             | (—) 51,397                  | (—) 51,397                     |
| 54             | Supply of power to Cholapuram ..                   | 1,45,993                       | (—) 3,931                   | 1,42,062                       |
| 55             | Supply of power to Perumalpatti, Solai-patti.      | 1,72,265                       | 1,945                       | 1,74,210                       |
| 56             | Karaidenivaiyur ..                                 | 82,483                         | ..                          | 82,483                         |
| 57             | Erection of Nagercoil S.S. ..                      | 421                            | ..                          | 421                            |
| 58             | Acquisition of Virdunagar undertakings.            | ..                             | 6,906                       | 6,906                          |
| 59             | Supply of power to Ponnaipuram ..                  | ..                             | 29,423                      | 29,423                         |
| 60             | Supply of power to Vickramangalam ..               | ..                             | 565                         | 565                            |
| 61             | Supply of power to Pethareddipatti ..              | ..                             | 2,00,324                    | 2,00,324                       |
| 62             | Supply of power to Nallarauppampatti.              | ..                             | 93,653                      | 93,653                         |
| 63             | Supply of power to Moolipatti, Nattara-mangalam.   | ..                             | 37,318                      | 37,318                         |
| 64             | Supply of power to Pennaikandu ..                  | ..                             | 3,460                       | 3,460                          |
| 65             | Construction quarters at Kayathar ..               | ..                             | 11,818                      | 11,818                         |
| 66             | Madurai Koilpatti II circuit line ..               | 15,04,954                      | ..                          | 15,04,954                      |
| 67             | Papanasam II stage IV unit ..                      | 47,38,175                      | ..                          | 47,38,175                      |
| 68             | Distribution of power to intending consumers.      | 43,17,283                      | 52,242                      | 43,67,525                      |
| 69             | Madurai, Tirumangalam, Rajapalayam line.           | 45,46,209                      | 2,130                       | 45,48,339                      |
| 70             | Madurai Sivaganga 66 KV extensions ..              | 16,86,231                      | ..                          | 16,86,231                      |
| 71             | Periyar Hydro Electric Scheme ..                   | 8,26,30,476                    | 10,10,626                   | 8,45,41,102                    |
| 72             | Lump-sum provision for undertakings ..             | 1,22,130                       | ..                          | 1,22,130                       |
| 73             | Replacement of 11 KV. H.T. ..                      | 4,12,339                       | ..                          | 4,12,339                       |
| 74             | Madurai, Koilpatti ..                              | 4,820                          | ..                          | 4,820                          |
| 75             | Suspense ..                                        | 2,50,04,654                    | 1,21,93,377                 | 3,71,98,331                    |
| 76             | Thulanpatti ..                                     | 50,114                         | ..                          | 50,114                         |
| 77             | Thirumangalam, Theni ..                            | (—) 1,743                      | ..                          | (—) 1,743                      |
| 78             | Mullapuram ..                                      | 1,26,618                       | ..                          | 1,26,618                       |
| 79             | Supply of power to E.D.R. ..                       | 8,89,001                       | ..                          | 8,89,001                       |
| 80             | Totaneri ..                                        | 7,66,802                       | ..                          | 7,66,827                       |
| 81             | Okkur ..                                           | 3,23,010                       | ..                          | 3,23,010                       |
| 82             | Maskilpal ..                                       | 97,937                         | ..                          | 97,937                         |

## APPENDIX A—cont.

## Capital outlay on Electricity Schemes with expenditure to end of March 1962—cont.

## MADURAI ELECTRICITY SYSTEM—cont.

| Serial number. | Name of the scheme.                                         | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|-------------------------------------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                                                         | (3)                            | (4)                         | (5)                            |
|                |                                                             | RS.                            | RS.                         | RS.                            |
| 83             | Melakailur, Kolkand ..                                      | 34,31,824                      | ..                          | 34,31,824                      |
| 84             | Papanasam, Tirunelveli, Kayathar ..                         | 30,17,959                      | ..                          | 30,17,959                      |
| 85             | Kalingapuram ..                                             | 1,66,756                       | ..                          | 1,66,756                       |
| 86             | Transport overhawl erection or trans-former from Mambakkam. | 3,104                          | ..                          | 3,104                          |
| 87             | Transformer overhawl and erection 2nd 1,000 watts.          | 24,838                         | ..                          | 24,838                         |
| 88             | Kayathar, Madurai ..                                        | 27,835                         | ..                          | 27,835                         |
|                | Grand Total ..                                              | 24,53,22,560                   | 2,22,28,671                 | 26,75,51,231                   |

## TIRUNELVELI ELECTRICITY SYSTEM.

|    |                                               |           |             |             |
|----|-----------------------------------------------|-----------|-------------|-------------|
| 1  | Tirunelveli Electricity System ..             | ..        | 5,20,157    | 5,20,157    |
| 2  | Supply to Pilliarkulam ..                     | 71,533    | 1,29,325    | 2,00,858    |
| 3  | Supply to Uthumalai Kavalkurichi ..           | 98,887    | 1,20,650    | 2,19,537    |
| 4  | Supply to M/s India Cements Thalayuthu.       | 7,32,137  | 3,560       | 7,35,697    |
| 5  | Supply to Vavalthotti ..                      | 2,40,449  | 21,993      | 2,62,442    |
| 6  | Supply to Kalingapatti ..                     | 1,82,588  | 1           | 1,82,589    |
| 7  | Supply to Sennikulam ..                       | 1,38,298  | (—) 594     | 1,37,704    |
| 8  | Supply to Thenmalai ..                        | 1,81,368  | 197         | 1,81,565    |
| 9  | Supply to Kulayaneri ..                       | 1,53,132  | 1,12,552    | 2,65,684    |
| 10 | Supply to Pethinadarpatty ..                  | 1,18,511  | 99,140      | 2,17,651    |
| 11 | Supply to Maruthamputhur Merandai ..          | 90,039    | 1,05,970    | 1,96,009    |
| 12 | Supply to Larengipuram ..                     | ..        | 2,130       | 2,130       |
| 13 | Supply to Adalaikulam ..                      | 78,664    | 65,130      | 1,43,794    |
| 14 | Supply to Kasturirengapuram ..                | 58,513    | 1,493       | 60,006      |
| 15 | Supply to Chettikulam ..                      | ..        | 89,042      | 89,042      |
| 16 | Supply to Korhaimukkur ..                     | ..        | 1,21,494    | 1,21,494    |
| 17 | Supply to Thandayarkulam ..                   | 2,24,334  | ..          | 2,24,334    |
| 18 | Supply to Nagalapuram, Goundampatty.          | 1,99,419  | ..          | 1,99,419    |
| 19 | Supply to Srivaikundam ..                     | 35,97,655 | ..          | 35,97,655   |
| 20 | Supply to Pazhamkottah ..                     | 6,17,760  | ..          | 6,17,760    |
| 21 | Supply to Panaiyur, Periyar ..                | 2,12,098  | ..          | 2,12,098    |
| 22 | Supply to Kayathur ..                         | 1,60,901  | ..          | 1,60,901    |
| 23 | Supply to Kattarakulam ..                     | 3,66,551  | ..          | 3,66,551    |
| 24 | Supply to Melakalathur, Nagercoil Thuc-kalay. | 23,73,724 | 1,02,066    | 24,75,790   |
| 25 | Distribution of power ..                      | ..        | 47,86,140   | 47,86,140   |
| 26 | 66 KV SS at Vickramasinsapuram ..             | ..        | 4,16,943    | 4,16,943    |
| 27 | Rajakkamangalam and Manarvalakurichi.         | ..        | (—) 5,922   | (—) 5,922   |
| 28 | Rajakkamangalam Irulappapuram ..              | ..        | (—) 2,217   | (—) 2,217   |
| 29 | Rajakkamangalam Sundaram talkies, Nanguneri.  | ..        | 17,505      | 17,505      |
| 30 | Rajakkamangalam and Manjalai Estate.          | ..        | 69,372      | 69,372      |
| 31 | Suspense ..                                   | ..        | 49,41,109   | 49,41,109   |
|    | Total ..                                      | 98,96,561 | 1,17,17,236 | 2,16,13,797 |

## APPENDIX A—cont.

Capital outlay on Electricity Schemes with expenditure to end of March 1962—cont.

## TRICHY ELECTRICITY SYSTEM.

| Serial number. | Name of the scheme.             | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|---------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                             | (3)                            | (4)                         | (5)                            |
|                |                                 | RS.                            | RS.                         | RS.                            |
| 1              | Trichy Electricity System .. .. | 47,35,907                      | 14,77,499                   | 62,13,406                      |
| 2              | Distribution of Power .. ..     | 1,25,80,505                    | 1,03,15,667                 | 2,28,96,172                    |
| 3              | Kurinipadi .. ..                | (—) 5,083                      | 3,555                       | (—) 1,528                      |
| 4              | Settiathope .. ..               | 205                            | 108                         | 313                            |
| 5              | Siruvanur .. ..                 | 845                            | 1,338                       | 2,183                          |
| 6              | Bengaram .. ..                  | 21,064                         | 30                          | 21,094                         |
| 7              | Sirumushnam .. ..               | 53,201                         | (—) 2,564                   | 56,637                         |
| 8              | Porto Novo .. ..                | 4,39,651                       | ..                          | 4,39,651                       |
| 9              | Arumpattu, Panapakkam .. ..     | 1,72,335                       | 980                         | 1,73,315                       |
| 10             | Killai-Mathur .. ..             | 1,42,548                       | 439                         | 1,42,987                       |
| 11             | Ponpatti-Edayanam .. ..         | 123                            | ..                          | 123                            |
| 12             | Vadasandur .. ..                | 2,01,124                       | 108                         | 2,01,232                       |
| 13             | Seerakuppam .. ..               | 3,94,722                       | 63,980                      | 4,58,702                       |
| 14             | Andimadam, Vellandi .. ..       | 1,37,139                       | (—) 17,491                  | 1,19,648                       |
| 15             | Inanganur, Edayakottai .. ..    | 2,52,300                       | 1,59,179                    | 4,11,479                       |
| 16             | Panruti .. ..                   | 1,39,968                       | 31,418                      | 1,71,386                       |
| 17             | Otteripalayam .. ..             | 1,16,748                       | 16,718                      | 1,33,466                       |
| 18             | Pallithennel, N. Kuppam .. ..   | 1,68,716                       | 2,229                       | 1,70,945                       |
| 19             | Piranmelai .. ..                | (—) 1,441                      | ..                          | (—) 1,441                      |
| 20             | Dharmathupatti .. ..            | 1,07,186                       | 681                         | 1,07,867                       |
| 21             | Seeramgudi Thallipatti .. ..    | 88,874                         | ..                          | 88,874                         |
| 22             | Voerakkal, Vannampatty .. ..    | 4                              | ..                          | 4                              |
| 23             | Pannaikaddu .. ..               | 38,212                         | ..                          | 38,212                         |
| 24             | Seelamarathupatti .. ..         | 1,39,053                       | ..                          | 1,39,053                       |
| 25             | Pannaiyuram .. ..               | 84,269                         | 2,197                       | 86,466                         |
| 26             | Kuttam .. ..                    | 1,89,804                       | 6,967                       | 1,96,771                       |
| 27             | Manjinaickenpatty .. ..         | 1,72,384                       | 3,237                       | 1,75,621                       |
| 28             | Pallapatti .. ..                | 3,67,627                       | ..                          | 3,67,627                       |
| 29             | Karambagudi .. ..               | 9,515                          | 144                         | 9,659                          |
| 30             | Vellanai V. Palayam .. ..       | 1,84,960                       | 35,999                      | 2,20,959                       |
| 31             | Kallakurichi .. ..              | 10                             | ..                          | 10                             |
| 32             | Pennadam, Sathiyavadi .. ..     | 3,36,125                       | (—) 22,324                  | 3,13,801                       |
| 33             | Vadakkanandal .. ..             | 2,47,799                       | 71,346                      | 3,19,145                       |
| 34             | Villupuram, Thiayadurgam .. ..  | 3,98,970                       | ..                          | 3,98,970                       |
| 35             | Lumpsum Provision .. ..         | (—) 34,26,469                  | 56,186                      | (—) 25,70,303                  |
| 36             | Arumbathur, Manadur .. ..       | 7,251                          | ..                          | 7,251                          |
| 37             | Jayankondan .. ..               | 1,78,113                       | 15,819                      | 1,93,932                       |
| 38             | C.D.M. Sethiathope .. ..        | (—) 394                        | ..                          | (—) 394                        |
| 39             | Sembathur .. ..                 | 1,77,446                       | 1,17,323                    | 2,94,769                       |
| 40             | Arpissampalayam .. ..           | 1,32,698                       | 75,778                      | 2,08,471                       |
| 41             | Tittagadi .. ..                 | 1,96,455                       | 2,17,805                    | 4,14,260                       |

## APPENDIX A—cont.

Capital outlay on Electricity Schemes with expenditure to end of March 1962—cont.

## TRICHY ELECTRICITY SYSTEM—cont.

| Serial number. | Name of the scheme.                     | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|-----------------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                                     | (3)                            | (4)                         | (5)                            |
|                |                                         | RS.                            | RS.                         | RS.                            |
| 44             | Athiyur pidagam .. ..                   | 72,739                         | 44,360                      | 1,17,099                       |
| 45             | Kannanpalayam .. ..                     | 110                            | ..                          | 110                            |
| 46             | Alangudi-Kallangudi .. ..               | 86,665                         | 1,19,207                    | 2,05,872                       |
| 47             | Kularungunam .. ..                      | 85,354                         | 3,738                       | 89,092                         |
| 48             | Siruntad .. ..                          | 50,707                         | 79,192                      | 1,29,899                       |
| 49             | Pandurankuppam Marudur .. ..            | 61,965                         | 89,111                      | 1,51,076                       |
| 50             | Tirucholapuram .. ..                    | 83,289                         | 1,42,914                    | 2,26,203                       |
| 51             | Sithatoor .. ..                         | 52,374                         | 1,09,641                    | 1,62,015                       |
| 52             | Vallipakkam .. ..                       | 2,273                          | 1,57,348                    | 1,59,621                       |
| 53             | Nallakuppampatti .. ..                  | 22,997                         | 956                         | 23,953                         |
| 54             | Pallipatti .. ..                        | 10                             | 2,510                       | 2,520                          |
| 55             | Supply to Kullamangalam .. ..           | 18,789                         | 78,729                      | 97,518                         |
| 56             | Chinthamanipatti .. ..                  | 66,681                         | 1,07,171                    | 1,73,852                       |
| 57             | Non-particulars items .. ..             | 5,781                          | 49,613                      | 55,394                         |
| 58             | Papanasam II Stago .. ..                | (—) 411                        | Nil.                        | (—) 411                        |
| 59             | Mugupatty .. ..                         | ..                             | 1,82,218                    | 1,82,218                       |
| 60             | Marirapatty .. ..                       | ..                             | 1,75,368                    | 1,75,368                       |
| 61             | Supply to Parampet .. ..                | ..                             | 1,17,146                    | 1,17,146                       |
| 62             | Supply to Kavipalayam .. ..             | ..                             | 1,51,921                    | 1,51,921                       |
| 63             | Supply to Poolambady .. ..              | ..                             | 2,22,327                    | 2,22,327                       |
| 64             | Supply to Alathur Sankaranpalayam .. .. | ..                             | 1,18,225                    | 1,18,225                       |
| 65             | Supply to Mokkan Kurichi .. ..          | ..                             | 83,506                      | 83,506                         |
| 66             | Supply to Sholavandan .. ..             | ..                             | 6,176                       | 6,176                          |
| 67             | Supply to Arumbavoor .. ..              | ..                             | 69,149                      | 69,149                         |
| 68             | Supply to Melathaniram .. ..            | ..                             | 1,28,906                    | 1,28,906                       |
| 69             | Supply to Sendanur .. ..                | ..                             | 12,649                      | 12,649                         |
| 70             | Supply to Sakunur etc. villages .. ..   | ..                             | 52,942                      | 52,942                         |
| 71             | Supply to Alamarathupatty .. ..         | ..                             | 31,542                      | 31,542                         |
| 72             | Supply to S. Kallur V. Puthur .. ..     | ..                             | 6,934                       | 6,934                          |
| 73             | Supply to Vadathorasalur .. ..          | ..                             | 72,842                      | 72,842                         |
| 74             | Supply to Vanjampatty .. ..             | ..                             | 3,07,303                    | 3,07,303                       |
| 75             | Supply to Puvanur .. ..                 | ..                             | 44,021                      | 44,021                         |
| 76             | Supply to Mohankurichy .. ..            | ..                             | 7,927                       | 7,927                          |
| 77             | Supply to Sathipetveeramani .. ..       | ..                             | 50,850                      | 50,850                         |
| 78             | Supply to Kandayampatty .. ..           | ..                             | 77,463                      | 77,463                         |
| 79             | Supply to Vengalam village .. ..        | ..                             | 15,317                      | 15,317                         |
| 80             | Supply to Thendaramadurai .. ..         | ..                             | 28,716                      | 28,716                         |
| 81             | Supply to Kilapara Alambady .. ..       | ..                             | 51,305                      | 51,305                         |
| 82             | Supply to Thaludur .. ..                | ..                             | 14,640                      | 14,640                         |
| 83             | Supply to Ammapalayam Lala-puram .. ..  | ..                             | 170                         | 170                            |
| 84             | Supply to Andipalayam .. ..             | ..                             | 29,613                      | 29,613                         |

## APPENDIX A—cont.

Capital outlay on Electricity Schemes with expenditure to end of March 1962—cont.

## TRICHY ELECTRICITY SYSTEM—cont.

| Serial number. | Name of the scheme.              | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|----------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                              | (3)                            | (4)                         | (5)                            |
|                |                                  | RS.                            | RS.                         | RS.                            |
| 85             | Supply to T. Palur .. ..         | ..                             | 31,730                      | 31,730                         |
| 86             | Supply to Kavalavoor .. ..       | ..                             | 40                          | 40                             |
| 87             | Supply to Arumbavoor .. ..       | ..                             | 23,051                      | 23,051                         |
| 88             | Supply to Chinnadharapuram .. .. | ..                             | 31,586                      | 31,586                         |
|                | Total ..                         | 1,97,95,792                    | 1,65,64,399                 | 3,63,60,191                    |
|                | Suspense ..                      | 44,87,969                      | 2,17,361                    | 47,05,330                      |
|                | Grand total ..                   | 2,42,83,761                    | 1,67,81,760                 | 4,10,65,521                    |

## VELLORE ELECTRICITY SYSTEM.

|   |                                  |             |             |             |
|---|----------------------------------|-------------|-------------|-------------|
| 1 | Vellore Electricity System .. .. | 2,21,20,788 | 24,24,760   | 2,45,45,548 |
| 2 | Distribution of power .. ..      | 3,00,88,080 | 1,31,83,444 | 4,32,69,524 |
|   | Acquired undertakings .. ..      | 21,19,719   | (—) 10,058  | 21,09,661   |
|   | Suspense ..                      | 24,71,151   | 5,90,284    | 30,70,435   |
|   | Total ..                         | 5,67,99,728 | 1,61,97,430 | 7,29,97,168 |

## MADRAS ELECTRICITY SYSTEM.

|   |                                       |              |              |              |
|---|---------------------------------------|--------------|--------------|--------------|
| 1 | Madras Thermal Scheme .. ..           | 4,47,70,313  | 30,61,838    | 4,78,32,151  |
| 2 | Distribution of Power .. ..           | 6,61,72,590  | 68,14,389    | 7,29,86,988  |
| 3 | Madras Power Station Extensions .. .. | 8,60,48,153  | 9,32,788     | 8,69,70,941  |
| 4 | Kanchee-Arkonam Extensions .. ..      | 20,56,153    | ..           | 20,56,153    |
| 5 | Acquired undertakings .. ..           | (—) 60,580   | ..           | (—) 60,580   |
|   | Suspense ..                           | 2,99,10,817  | (—) 6,19,891 | 2,92,90,926  |
|   | Total ..                              | 22,88,97,455 | 1,01,79,124  | 23,90,76,579 |

## CONSTRUCTION CAPITAL.

|   |                                                  |           |              |           |
|---|--------------------------------------------------|-----------|--------------|-----------|
| 1 | Neiveli-Villupuram line .. ..                    | 25,30,957 | 67,355       | 25,98,312 |
| 2 | Villupuram-Pondicherry .. ..                     | 4,11,201  | 11,342       | 4,22,543  |
| 3 | 66 KV Line from Villupuram to Thiagadurgam .. .. | ..        | 7,95,283     | 7,95,283  |
| 4 | Ayyarmalai Extensions .. ..                      | ..        | 5,33,283     | 5,33,283  |
| 5 | Nellithurai Mettupalayam I Stage .. ..           | 11,78,118 | 1,35,243     | 13,13,361 |
| 6 | Do. II Stage .. ..                               | ..        | 3,90,826     | 3,90,826  |
| 7 | Periyar-Kyathar-Arumuganeri line .. ..           | 89,39,090 | (—) 6,18,426 | 83,20,664 |
| 8 | Namakal-Dahmia .. ..                             | 2,23,824  | 4,18,503     | 7,47,327  |

## APPENDIX A—cont.

Capital outlay on Electricity Schemes with expenditure to end of March 1962—cont.

## CONSTRUCTION CAPITAL—cont.

| Serial number. | Name of the scheme.                       | Expenditure to end of 1960-61. | Expenditure during 1961-62. | Expenditure to end of 1961-62. |
|----------------|-------------------------------------------|--------------------------------|-----------------------------|--------------------------------|
| (1)            | (2)                                       | (3)                            | (4)                         | (5)                            |
|                |                                           | RS.                            | RS.                         | RS.                            |
| 9              | Arni-Kanchee-Kaveripauk .. ..             | 78,921                         | 13,48,624                   | 14,27,545                      |
| 10             | Villivakkam Ennore .. ..                  | 5,82,403<br>2,69,395           | 13,29,011                   | 21,80,809                      |
| 11             | Neiveli Panruti .. ..                     | 2,60,616                       | 8,28,240                    | 10,88,856                      |
| 12             | Karaikudi A Therkur Natham .. ..          | 9,96,712                       | 4,25,844                    | 14,22,556                      |
| 13             | Arasaradi Sub-station .. ..               | 3,10,062                       | 7,27,039                    | 10,37,101                      |
| 14             | Kadapperi Sub-station .. ..               | 21,701                         | 12,25,247                   | 12,46,948                      |
| 15             | Mettur Tunnel Scheme .. ..                | 41,23,042                      | 1,02,45,773                 | 1,43,68,815                    |
| 16             | Kundah H.E.S. I and II Stages .. ..       | 25,33,83,105                   | 2,06,11,571                 | 27,39,94,676                   |
| 17             | Kundah H.E.S. III Stage .. ..             | 19,08,456                      | 2,45,32,823                 | 2,64,41,279                    |
| 18             | Parambikulam Hydro-Electric Scheme .. ..  | ..                             | 70,397                      | 70,397                         |
| 19             | Periyar II Stage .. ..                    | ..                             | 2,13,938                    | 2,13,938                       |
| 20             | Neiveli Transmission Scheme I Stage .. .. | 1,34,51,494                    | 99,430                      | 1,35,50,924                    |
| 21             | Do. II Stage .. ..                        | 20,10,255                      | 1,19,49,465                 | 1,39,59,720                    |
| 22             | Villupuram-Arni .. ..                     | 57,970                         | 12,61,806                   | 13,19,776                      |
| 23             | Sandynallah Scheme .. ..                  | 67,10,924                      | 30,48,442                   | 97,59,366                      |
| 24             | Railway Electrification Scheme .. ..      | 24,278                         | (—) 472                     | 23,806                         |
|                | Suspense .. ..                            | 1,55,87,162                    | (—) 47,27,425               | 1,08,59,737                    |
|                | Total Construction Capital ..             | 31,31,64,696                   | 7,49,23,162                 | 38,80,87,858                   |
|                | Total Capital outlay ..                   | 1,33,19,47,898                 | 17,83,34,019                | 1,51,07,81,917                 |

## General Abstract—Appendix A.

|                                          | RS.            | RS.         | RS.           |
|------------------------------------------|----------------|-------------|---------------|
| Pykara System .. ..                      | 26,20,35,954   | 1,27,61,755 | 27,47,97,709  |
| Mettur System .. ..                      | 19,15,47,173   | 1,40,44,881 | 20,55,92,054  |
| Madurai System .. ..                     | 24,53,22,560   | 2,22,28,671 | 26,75,51,231  |
| Tirunelveli System .. ..                 | 98,96,561      | 1,17,17,236 | 2,16,13,797   |
| Madras Electricity System (Distribution) | 22,88,97,455   | 1,01,79,124 | 23,90,76,579  |
| Vellore System .. ..                     | 5,67,99,738    | 1,61,97,430 | 7,29,97,168   |
| Trichy System .. ..                      | 2,42,83,761    | 1,67,81,760 | 4,10,65,521   |
| Total operation capital ..               | 101,87,83,202  | 1039,10,857 | 112,26,94,059 |
| Total Construction capital ..            | 31,31,64,696   | 749,23,162  | 38,80,87,858  |
| Grand total capital outlay ..            | 1,33,19,47,898 | 1788,34,019 | 151,07,81,917 |

## APPENDIX B.

## STATEMENT SHOWING THE BUDGET PROVISION FOR 1962-63 FOR CAPITAL WORKS.

| Serial number and particulars.                                                                                                                                | Budget Estimate for 1962-63.<br>(2)<br>(IN LAKHS OF RUPEES). |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| (1)                                                                                                                                                           |                                                              |
| A. Pykara Hydro-Electric Scheme .. .. .                                                                                                                       | 99.17                                                        |
| B. Moyar Scheme .. .. .                                                                                                                                       | 0.60                                                         |
| C. Pykara Plant Extensions III and Final Stage .. .. .                                                                                                        | 1.14                                                         |
| G. Nellithorai-Mettupalayam 110 K.V. II Circuit extensions .. .. .                                                                                            | 5.19                                                         |
| H. Mettur Hydro-Electric Scheme .. .. .                                                                                                                       | 64.50                                                        |
| I. Madras-Mettur Interconnection Scheme .. .. .                                                                                                               | 0.16                                                         |
| J. Salem-Namakkal 110 KV. Line .. .. .                                                                                                                        | 0.02                                                         |
| N. Extension of 66 KV. line from Villupuram to Pondicherry .. .. .                                                                                            | (token)                                                      |
| O. Establishment of 66/33 KV. sub-station at Kariamangalam .. .. .                                                                                            | 11.03                                                        |
| P. Vellore Electricity System .. .. .                                                                                                                         | 79.05                                                        |
| Q. Establishment of Arni 110/66 KV. Auto station and 66/11 KV. Sub-station at Vaniyambadi. .. .. .                                                            | 23.44                                                        |
| R. Tiruchirappalli Electricity System .. .. .                                                                                                                 | 118.13                                                       |
| S. Extension of 66 KV. Single Circuit line from Villupuram to Thiagadurgam, etc. .. .. .                                                                      | (token)                                                      |
| T. Singarapet-Villupuram 110 KV Extension .. .. .                                                                                                             | (token)                                                      |
| V. Neyveli Transmission Scheme .. .. .                                                                                                                        | 153.61                                                       |
| W. Establishment of 66/33/11 KV. Sub-station at Ayyarmalai, etc. .. .. .                                                                                      | 18.21                                                        |
| X. Madurai Electricity system .. .. .                                                                                                                         | 97.52                                                        |
| Y. Tirunelveli Electricity system .. .. .                                                                                                                     | 47.65                                                        |
| Z. Papanasam Plant Extensions, II Stage .. .. .                                                                                                               | (—) 22.64                                                    |
| AA. Establishment of 66 KV. Sub-station at Vickramasingapuram, Ambasamudram taluk. .. .. .                                                                    | 12.47                                                        |
| AE. Namakkal-Dalmiapuram 110 K.V. Extension and Establishment of 110/22 K.V. Sub-Station at Thuraiyur. .. .. .                                                | 12.60                                                        |
| AF. Melakalur-Nagercoil-Thuckalayath 66 KV. extension .. .. .                                                                                                 | 0.56                                                         |
| AG. Extension of 66 KV. Single Circuit line from Karaikudi to A. Therkur and Natham and establishment of 66/11 K.V. Sub-station at A. Therkur Natham. .. .. . | 3.77                                                         |
| AH. Mettur Tunnel Power House scheme .. .. .                                                                                                                  | 250.00                                                       |
| AI. Extension of 110 KV. line from Arni to Kaveripauk and establishment of 110/33 K.V. Sub-station at Kaveripauk. .. .. .                                     | 9.74                                                         |
| AK. Periyar Hydro electric scheme .. .. .                                                                                                                     | 4.79                                                         |
| AL. Periyar Hydro electric scheme, II Stage .. .. .                                                                                                           | 30.00                                                        |
| AM. Kundah Hydro electric scheme, I and II Stage .. .. .                                                                                                      | 81.84                                                        |
| AN. Kundah Hydro electric scheme, III Stage .. .. .                                                                                                           | 526.91                                                       |
| AO. Anamalai Hydro electric scheme (Parambikulam Project) .. .. .                                                                                             | 45.00                                                        |
| AP. Sandynallah Reservoir scheme .. .. .                                                                                                                      | 51.38                                                        |
| AQ. Supply of power to Southern Railway for electrification and tract between Madras and Villupuram. .. .. .                                                  | 3.00                                                         |
| II. Thermo Electric Scheme.—                                                                                                                                  |                                                              |
| A. Madras Scheme .. .. .                                                                                                                                      | 74.68                                                        |
| B. Madras Power Station Extension .. .. .                                                                                                                     | 10.86                                                        |
| C. Extension of 110 KV line from Korattur to Ennore and establishment of 110/33 KV/11 KV Sub-station at Ennore. .. .. .                                       | 1.12                                                         |
| D. Extension of 110 KV line to Kadaperi, establishment of a 110 KV sub-station and extension of H.T. supply to South Madras Area. .. .. .                     | 5.25                                                         |
| Lumpsum provision for payment of compensation for acquisition of electrical undertakings of local authorities and private companies. .. .. .                  | 0.15                                                         |
| Total .. .. .                                                                                                                                                 | 1,820.99                                                     |

## APPENDIX C.

## DETAILS OF ESTABLISHMENT CHARGES AND THE RECOVERIES THERE TO TOGETHER WITH EXCESS OF INCOME OVER EXPENDITURE DURING 1961-62.

| Scheme.                                                                                                                         | Expenditure during 1961-62. |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| (1)                                                                                                                             | (2)                         |
| Rs.                                                                                                                             |                             |
| I. Pykara Hydro Electric Scheme—                                                                                                |                             |
| Salaries, allowances and other charges .. .. .                                                                                  | 19,85,086                   |
| Add charges payable to Head-quarters and others .. .. .                                                                         | 5,78,426                    |
| Total .. .. .                                                                                                                   | 25,63,512                   |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 4,76,128                |
|                                                                                                                                 | 20,87,384                   |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 1,11,54,867                 |
| Grand Total .. .. .                                                                                                             | 1,32,42,251                 |
| Gross Revenue .. .. .                                                                                                           | 3,35,41,456                 |
| Excess of Income over expenditure .. .. .                                                                                       | 2,02,99,205                 |
| II. Mettur Hydro-Electric Scheme—                                                                                               |                             |
| Salaries, allowances and other charges .. .. .                                                                                  | 22,68,812                   |
| Add charges payable to Headquarters and others .. .. .                                                                          | 2,25,141                    |
| Total .. .. .                                                                                                                   | 24,93,953                   |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 8,58,458                |
| Total .. .. .                                                                                                                   | 16,35,495                   |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 78,26,515                   |
| Grand Total .. .. .                                                                                                             | 94,62,010                   |
| Gross Revenue .. .. .                                                                                                           | 2,25,14,154                 |
| Excess of income over expenditure .. .. .                                                                                       | 1,30,52,144                 |
| III. Vellore Electricity System —                                                                                               |                             |
| Salaries, allowances and other charges .. .. .                                                                                  | 22,97,576                   |
| Add Charges payable to Headquarters and others .. .. .                                                                          | 1,78,072                    |
| Total .. .. .                                                                                                                   | 24,75,648                   |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 6,55,681                |
| Total .. .. .                                                                                                                   | 18,19,967                   |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 67,10,077                   |
| Grand Total .. .. .                                                                                                             | 85,30,044                   |
| Gross Revenue .. .. .                                                                                                           | 1,78,07,391                 |
| Excess of Income over expenditure .. .. .                                                                                       | 92,77,347                   |

## APPENDICES

APPENDIX C.—*cont.*DETAILS OF ESTABLISHMENT CHARGES AND THE RECOVERIES THERETO TOGETHER  
WITH EXCESS INCOME OVER EXPENDITURE DURING 1961-62—*cont.*

| <i>Scheme.</i>                                                                                                                  | <i>Expenditure during 1961-62.</i> |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| (1)                                                                                                                             | (2)                                |
|                                                                                                                                 | RS.                                |
| <b>IV. Tiruchy Electricity System—</b>                                                                                          |                                    |
| Salaries, allowances and other charges .. .. .                                                                                  | 17,39,793                          |
| Add charges payable to Headquarters and others .. .. .                                                                          | 2,25,188                           |
| Total ..                                                                                                                        | 19,64,981                          |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 7,26,791                       |
| Total ..                                                                                                                        | 12,38,190                          |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 35,27,754                          |
| Grand Total ..                                                                                                                  | 47,65,944                          |
| Gross Revenue ..                                                                                                                | 2,25,18,412                        |
| Excess of Income over expenditure ..                                                                                            | 1,77,52,468                        |
| <b>V. Madurai Electricity System—</b>                                                                                           |                                    |
| Salaries, allowances and other charges .. .. .                                                                                  | 10,57,342                          |
| Add charges payable to Headquarters and others .. .. .                                                                          | 1,83,205                           |
| Total ..                                                                                                                        | 21,40,547                          |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 3,76,396                       |
| Total ..                                                                                                                        | 17,64,151                          |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 1,00,36,908                        |
| Grand Total ..                                                                                                                  | 1,18,01,059                        |
| Gross Revenue ..                                                                                                                | 1,83,25,385                        |
| Excess of Income over expenditure ..                                                                                            | 65,24,326                          |
| <b>VI. Tirunelveli Hydro-Electric Scheme—</b>                                                                                   |                                    |
| Salaries, allowances and other charges .. .. .                                                                                  | 15,10,082                          |
| Add charges payable to Headquarters and others .. .. .                                                                          | 2,75,001                           |
| Total ..                                                                                                                        | 17,85,083                          |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 2,52,913                       |
| Total ..                                                                                                                        | 15,33,370                          |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 21,61,867                          |
| Grand Total ..                                                                                                                  | 36,95,237                          |
| Gross Revenue ..                                                                                                                | 1,53,67,674                        |
| Excess of Income over expenditure ..                                                                                            | 1,16,72,437                        |

APPENDIX C.—*cont.*DETAILS OF ESTABLISHMENT CHARGES AND THE RECOVERIES THERETO TOGETHER  
WITH EXCESS OF INCOME OVER EXPENDITURE DURING 1961-62—*cont.*

| <i>Scheme.</i>                                                                                                                  | <i>Expenditure during 1961-62.</i> |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| (1)                                                                                                                             | (2)                                |
|                                                                                                                                 | RS.                                |
| <b>II. Madras Thermal Scheme—</b>                                                                                               |                                    |
| Salaries, allowances and other charges .. .. .                                                                                  | 22,48,026                          |
| Add charges payable to Headquarters and others .. .. .                                                                          | 4,90,805                           |
| Total ..                                                                                                                        | 27,38,831                          |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 4,32,858                       |
| Total ..                                                                                                                        | 23,05,973                          |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 1,14,89,193                        |
| Grand Total ..                                                                                                                  | 1,37,95,166                        |
| Gross Revenue ..                                                                                                                | 4,91,40,807                        |
| Excess of Income over expenditure ..                                                                                            | 3,53,45,641                        |
| <b>VIII. Hydro Thermal Generation—</b>                                                                                          |                                    |
| Salaries, allowances and other charges .. .. .                                                                                  | 21,33,003                          |
| Add charges payable to Headquarters and others .. .. .                                                                          | 611                                |
| Total ..                                                                                                                        | 21,33,614                          |
| Less charges recoverable from capital works and others .. .. .                                                                  | (—) 37,242                         |
| Total ..                                                                                                                        | 20,96,372                          |
| Operation and maintenance expenses including Funds, Pension, Interest on voluntary loan contribution excluding suspense .. .. . | 2,69,67,738                        |
| Grand Total ..                                                                                                                  | 2,90,64,110                        |
| Gross Revenue ..                                                                                                                | ..                                 |
| Excess of Income over expenditure ..                                                                                            | ..                                 |

*Abstract of excess of income over expenditure.*

|                                                             |             |
|-------------------------------------------------------------|-------------|
| 1 Pykara .. .. .                                            | 2,02,99,205 |
| 2 Mettur .. .. .                                            | 1,30,52,144 |
| 3 Vellore .. .. .                                           | 92,77,347   |
| 4 Tiruchy .. .. .                                           | 1,77,52,468 |
| 5 Madurai .. .. .                                           | 65,24,326   |
| 6 Tirunelveli .. .. .                                       | 1,16,72,437 |
| 7 Madras .. .. .                                            | 3,53,45,641 |
| Miscellaneous Revenue, Hydro and Thermal Generation .. .. . | 98,017      |
| Other Miscellaneous Receipts .. .. .                        | 3,000       |

## APPENDIX C.—cont.

## DETAILS OF ESTABLISHMENT CHARGES AND THE RECOVERIES THERE TO TOGETHER WITH EXCESS OF INCOME OVER EXPENDITURE DURING 1961-62—cont.

| Abstract of excess of income over expenditure—cont.                                                    |  |  |  |  |  |  |  |  |             |
|--------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|-------------|
|                                                                                                        |  |  |  |  |  |  |  |  | RS.         |
| Less—                                                                                                  |  |  |  |  |  |  |  |  |             |
| 1 Generation .. .. .                                                                                   |  |  |  |  |  |  |  |  | 2,90,64,110 |
| 2 (f) Administration charges .. .. .                                                                   |  |  |  |  |  |  |  |  | 8,85,873    |
| 3 Interest on Government loan and bonds .. .. .                                                        |  |  |  |  |  |  |  |  | 6,61,88,016 |
| 4 Loan Redemption Fund contribution .. .. .                                                            |  |  |  |  |  |  |  |  | 69,98,270†  |
| 5 Management of debt and other charges with the issue of Madras State Electricity Board bonds. .. .. . |  |  |  |  |  |  |  |  | 1,69,000    |
| 6 Income-tax .. .. .                                                                                   |  |  |  |  |  |  |  |  | ..          |
| 7 Lumpsum provision .. .. .                                                                            |  |  |  |  |  |  |  |  | ..          |
| Total net surplus .. .. .                                                                              |  |  |  |  |  |  |  |  | 1,67,19,310 |

† Provided with reference to the Board's proceedings No. 792, dated 31st March 1962.

NOTE.—The above figures should not be construed as giving the final net surplus of the Board as per the final accounts to be audited and made available to the public. They do not include the annual adjustments to be made in respect of accrued revenue outstanding liabilities, advances to be received from the Accountant-General towards certain portion of accounts maintained by him, etc.

## APPENDIX C-1.

## STATEMENT SHOWING THE UNITS GENERATED WORKING EXPENSES AND COST PER UNIT GENERATED UNDER EACH MAIN HEAD OF EXPENSES—1961-62.

| Units generated in millions. | Gross Expenditure. | Working Expenses excluding suspense. | Charges payable to head-quarters. | Provincial establishment and officers. |                  |        | Operation Subordinate service. |         |
|------------------------------|--------------------|--------------------------------------|-----------------------------------|----------------------------------------|------------------|--------|--------------------------------|---------|
|                              |                    |                                      |                                   | Gross.                                 | Less recoveries. | Net.   | Number employed.               | Amount. |
|                              |                    |                                      |                                   |                                        |                  |        |                                |         |
| (1)                          | (2)                | (3)                                  | (4)                               | (5)                                    | (6)              | (7)    | (8)                            | (9)     |
| 2,523-961                    | 976-00             | 943-56                               | 21-57                             | 161-40                                 | 38-16            | 123-24 | 13-661                         | 111-47  |
|                              | 3-86               | 3-73                                 | 0-08                              | 0-64                                   | 0-15             | 0-49   | ..                             | 0-44    |

## APPENDIX C-1—cont.

## STATEMENT SHOWING THE UNITS GENERATED WORKING EXPENSES AND COST PER UNIT GENERATED UNDER EACH MAIN HEAD OF EXPENSES—1961-62—cont.

| Units generated in millions. | Nominal muster Roll. |         | Fuel and lubricants. | Operation and maintenance expense including interest on deposits other than establishment. | Works expenditure financed from ordinary revenues. | Depreciation reserve general reserve and pension reserve funds including interest on accumulated balances. | Tools and plant. | Suspense. |
|------------------------------|----------------------|---------|----------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------|-----------|
|                              | Number employed.     | Amount. |                      |                                                                                            |                                                    |                                                                                                            |                  |           |
|                              | (10)                 | (11)    |                      |                                                                                            |                                                    |                                                                                                            |                  |           |
| 2,523-961                    | 991                  | 2-78    | 188-43               | 164-96                                                                                     | 1-39                                               | 332-80                                                                                                     | (—) 3-08         | 32-44     |
|                              |                      | 0-01    | 0-75                 | 0-65                                                                                       | ..                                                 | 1-32                                                                                                       | (—) 0-01         | 0-12      |

## APPENDIX C-2.

## RECEIPTS FROM ELECTRICITY SCHEMES—WORKING EXPENSES—STATEMENT SHOWING GROSS REVENUE WORKING EXPENSES AND THE PROPORTION OF EXPENSES UNDER EACH MAIN HEAD TO GROSS REVENUE—1961-62.

| Gross Revenue | Gross Expenditure. | Working Expenses excluding suspense. | Charges payable to head-quarters. | Provincial establishments and officers. |                  |        | Operation Subordinate service. |         |
|---------------|--------------------|--------------------------------------|-----------------------------------|-----------------------------------------|------------------|--------|--------------------------------|---------|
|               |                    |                                      |                                   | Gross.                                  | Less recoveries. | Net.   | Number employed.               | Amount. |
|               |                    |                                      |                                   |                                         |                  |        |                                |         |
| (1)           | (2)                | (3)                                  | (4)                               | (5)                                     | (6)              | (7)    | (8)                            | (9)     |
| 1,793-13      | 976-00             | 943-56                               | 21-57                             | 161-40                                  | 38-16            | 123-24 | 13,661                         | 111-47  |
|               | 54-43              | 52-62                                | 1-20                              | 9-00                                    | 2-13             | 6-87   | ..                             | 6-22    |

| Gross<br>Revenue. | Normal muster<br>Roll. |         | Fuel and lubricants. | Operation and maintenance<br>expenses other than<br>establishments. | Working expenses finan-<br>ced from ordinary<br>revenue. | Depreciation reserve fund<br>general reserve fund to-<br>gether with interest on<br>balance of depreciation<br>reserve fund. | Tools and plant. | Suspense. |
|-------------------|------------------------|---------|----------------------|---------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|------------------|-----------|
|                   | Number employed.       | Amount. |                      |                                                                     |                                                          |                                                                                                                              |                  |           |
|                   | (10)                   | (11)    |                      |                                                                     |                                                          |                                                                                                                              |                  |           |
| 1,793.13          | 991                    | 2.78    | 188.43               | 164.96                                                              | 1.39                                                     | 332.80                                                                                                                       | (—) 3.08         | 32.44     |
|                   |                        | 0.15    | 10.51                | 9.20                                                                | 0.08                                                     | 18.56                                                                                                                        | (—) 0.17         | 1.81      |

**APPENDIX C-3.**

STATEMENT SHOWING COST OF OPERATION AND MAINTENANCE EXPENSES AS A PERCENTAGE ON REVENUE PER UNIT SOLD, 1961-62.

| Units sold to consumers (in lakhs of units). | Revenue per unit sold. | Operation and Maintenance Operation Subordinate Service and Establishment expenses as a percentage on Revenue per unit sold. |                          |                                              |                              |                          |                                              |
|----------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------|------------------------------|--------------------------|----------------------------------------------|
|                                              |                        | Operations and Maintenance.                                                                                                  |                          | Operation Subordinate Service.               |                              |                          |                                              |
|                                              |                        | Expenses in lakhs of Rupees.                                                                                                 | Cost n P. per unit sold. | Percentage of cost to revenue per unit sold. | Expenses in lakhs of Rupees. | Cost n P. per unit sold. | Percentage of cost to revenue per unit sold. |
| (1)                                          | (2)                    | (3)                                                                                                                          | (4)                      | (5)                                          | (6)                          | (7)                      | (8)                                          |
| 20,224.09                                    | 8.74                   | 356.17                                                                                                                       | 1.76                     | 20.14                                        | 111.47                       | 0.55                     | 6.29                                         |

| Units sold to Consumers (in lakhs of units) | Establishment.               |                      |                                              | Revenue per unit sold including interest on securities. | Revenue realised per unit from miscellaneous revenue other than interest on securities. |
|---------------------------------------------|------------------------------|----------------------|----------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                                             | Expenses in lakhs of Rupees. | Cost n.P. unit sold. | Percentage of cost to revenue per unit sold. |                                                         |                                                                                         |
| (9)                                         | (10)                         | (11)                 | (12)                                         | (13)                                                    | (14)                                                                                    |
| 20,224.09                                   | 144.81                       | 0.71                 | 8.13                                         | 8.86                                                    | 0.81                                                                                    |

## APPENDIX C-4.

## FINANCIAL RESULTS OF THE BOARD.

| EXPENDITURE.                                                                       |                       | RECEIPTS.                                |                    |          |           |          |         |          |
|------------------------------------------------------------------------------------|-----------------------|------------------------------------------|--------------------|----------|-----------|----------|---------|----------|
| Details.                                                                           | (RUPEES<br>IN LAKHS.) | Details.                                 | Units in millions. |          | Total.    | Revenue. |         | Total.   |
|                                                                                    |                       |                                          | H.T.               | L.T.     |           | H.T.     | L.T.    |          |
| To Generation .. ..                                                                | 2,90.64               | By domestic light including small power. | 1.582              | 1,05.099 | 1,06.671  | 2.12     | 2,66.04 | 2,68.16  |
| " Transmission .. ..                                                               | 16.17                 | " Commercial .. ..                       | 65.272             | 62.498   | 1,27.770  | 43.90    | 1,47.47 | 1,91.37  |
| " Distribution .. ..                                                               | 99.24                 | " Street lights .. ..                    | 7.186              | 16.447   | 23.633    | 8.08     | 39.81   | 47.89    |
| " Commercial .. ..                                                                 | 16.76                 | " Industrial .. ..                       | 7,64.174           | 1,23.248 | 8,87.422  | 4,17.82  | 1,34.16 | 5,51.98  |
| " Cost of power purchased ..                                                       | 15.50                 | " Agricultural .. ..                     | 0.657              | 4,24.351 | 4,25.008  | 0.49     | 3,24.09 | 3,24.58  |
| " Administration—Miscellaneous and general charges including interest on deposits. | 1,72.45               | " Traction (including Railways).         | 38.214             | 0.687    | 38.901    | 34.00    | 1.47    | 35.47    |
| " Contribution to Reserve funds including interest on opening balances.            | 3,32.80               | " Bulk supply to licensees..             | 3,18.319           | ..       | 3,18.319  | 1,56.33  | ..      | 1,56.33  |
| " Excess receipts over expenditure.                                                | 8,49.57               | " Government departments.                | 69.779             | 12.332   | 82.111    | 42.10    | 26.54   | 68.64    |
|                                                                                    |                       | " Miscellaneous .. ..                    | 8.885              | 3.689    | 12.574    | 13.41    | 46.03   | 59.44    |
|                                                                                    |                       | Total .. ..                              | 12,74.068          | 7,48.341 | 20,22.409 | 7,18.25  | 9,85.61 | 17,03.86 |
|                                                                                    |                       | Miscellaneous Revenue ..                 | ..                 | ..       | ..        | ..       | ..      | 68.84    |
|                                                                                    |                       | Total .. ..                              | ..                 | ..       | ..        | ..       | ..      | 17,67.70 |
|                                                                                    |                       | Interest on securities ..                | ..                 | ..       | ..        | ..       | ..      | 25.43    |
| Total .. ..                                                                        | 17,93.13              | Grand Total .. ..                        | ..                 | ..       | ..        | ..       | ..      | 17,93.13 |



## APPENDIX E.

## PERCENTAGE OF PROGRESS ON CONSTRUCTION WORKS IN 1961-62.

| Name of scheme.                                   | Final Provision, 1961-62. | Actuals. | Percentage. | Remarks.                                                                                                                                                                              |
|---------------------------------------------------|---------------------------|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (RUPEES IN LAKHS).                                |                           |          |             |                                                                                                                                                                                       |
| 1 Villupuram—Pondicherry.                         | 0.12                      | 0.11     | 91.7        | Provision kept up with a marginal difference.                                                                                                                                         |
| 2 66 KV. line from Villupuram to Thiagadurgam.    | 7.80                      | 7.95     | 100.0       | Provision fully kept up.                                                                                                                                                              |
| 3 Ayyarmalai Extensions ..                        | 5.33                      | 5.33     | 100.0       | Do.                                                                                                                                                                                   |
| 4 Nellithurai—Mettupalayam I Stage                | 1.10                      | 1.35     | 122.7       | The excess expenditure is due to drawal of materials for urgent L.T. take off arrangements at the close of the financial year.                                                        |
| 5 Nellithurai-Mettupalayam II Stage.              | 4.84                      | 3.91     | 80.9        | Due to lesser payments made than anticipated.                                                                                                                                         |
| 6 Periyar—Kayathar-Arunaganeri Line.              | —7.65                     | —6.18    | —80.8       | Due to less recoveries than anticipated.                                                                                                                                              |
| 7 Namakkal-Dalmia ..                              | 4.72                      | 4.19     | 88.8        | Variation negligible.                                                                                                                                                                 |
| 8 Arni-Kancheepuram-Kaveripakkam ..               | 13.78                     | 13.49    | 98.6        |                                                                                                                                                                                       |
| 9 Villivakkam—Eunore ..                           | 13.14                     | 13.29    | 102.2       | Provision fully kept up with a negligible excess.                                                                                                                                     |
| 10 Karaikudi-Therkuratham.                        | 4.65                      | 4.26     | 91.6        | Variation negligible.                                                                                                                                                                 |
| 11 Avasardi Sub-station ..                        | 7.18                      | 7.27     | 101.3       | Provision fully kept up with a little excess due to speeding up of works.                                                                                                             |
| 12 Kadapperi Sub-Station ..                       | 10.39                     | 12.25    | 117.9       |                                                                                                                                                                                       |
| 13 Mettur Tunnel Scheme ..                        | 114.27                    | 118.06   | 103.3       | The excess expenditure is due to more supply of materials than anticipated.                                                                                                           |
| 14 Kundah Hydro-Electric Scheme, I and II stages. | 88.42                     | 93.05    | 105.8       | The increase is mainly under Upper Bhavani Dam works due to increased tempo of works at the close of the year with reference to the large supply of cement received than anticipated. |
| 15 Kundah Hydro-Electric Scheme, III Stage.       | 290.08                    | 301.51   | 104.0       | The increase is due to acceleration of construction works and consequential payments made thereof.                                                                                    |
| 16 Parumbikulam Hydro-Electric Scheme.            | 0.20                      | 0.70     | 350.0       | The provision made in the Final Modification Grant is for preliminary works on an approximate basis.                                                                                  |
| 17 Periyar II Stage ..                            | 2.12                      | 2.14     | 100.9       | Provision fully kept up.                                                                                                                                                              |
| 18 Neyveli Transmission Scheme (Revised).         | 132.38                    | 129.44   | 98.1        | The saving is negligible.                                                                                                                                                             |
| 19 Villupuram-Arni ..                             | 11.00                     | 12.62    | 114.7       | The excess over the final provision is negligible.                                                                                                                                    |
| 20 Sandynallah Scheme ..                          | 25.05                     | 24.49    | 97.9        | The variation is negligible.                                                                                                                                                          |

## APPENDIX F.

## LINE LOSS (IN MILLION OF UNITS), 1961-62.

|                                       |    |    |    |    |    |           |
|---------------------------------------|----|----|----|----|----|-----------|
| Total generation ..                   | .. | .. | .. | .. | .. | 2,523.961 |
| Station consumption ..                | .. | .. | .. | .. | .. | 63.031    |
| Total units sent out ..               |    |    |    |    |    | 2,460.330 |
| Power purchased from other sources .. | .. | .. | .. | .. | .. | 28.091    |
| Total units available for sale ..     |    |    |    |    |    | 2,488.421 |
| Total units sold ..                   | .. | .. | .. | .. | .. | 2,044.607 |
| Loss ..                               |    |    |    |    |    | 443.814   |
| Percentage ..                         |    |    |    |    |    | 17.8%     |

## APPENDIX G.

## UTILIZATION OF POWER (IN MILLIONS OF UNITS) AND REVENUE BY SALE OF POWER (IN LAKHS OF RUPEES), 1961-62.

| Detailed classification.       | (1)     | Urban.   |          |            | Rural.   |          |            | Total units. |           |             | Revenue.  |           |             |
|--------------------------------|---------|----------|----------|------------|----------|----------|------------|--------------|-----------|-------------|-----------|-----------|-------------|
|                                |         | L.T. (2) | H.T. (3) | Total. (4) | L.T. (5) | H.T. (6) | Total. (7) | L.T. (8)     | H.T. (9)  | Total. (10) | L.T. (11) | H.T. (12) | Total. (13) |
|                                |         |          |          |            |          |          |            |              |           |             |           |           |             |
| 1 Domestic light and power.    | 71.652  | 51.020   | 17.405   | 68.425     | 33.437   | 0.185    | 33.622     | 1,05,089     | 1,582     | 1,06,671    | 266.04    | 2.12      | 2,68.16     |
| 2 Commercial light and power.  | 7.652   | ..       | 7.186    | 14.838     | 8.795    | ..       | 8.795      | 62.498       | 65.272    | 1,27.770    | 147.47    | 43.90     | 1,91.37     |
| 3 Street lights                | ..      | ..       | ..       | ..         | ..       | ..       | ..         | 16.447       | 7.186     | 23.633      | 39.81     | 8.08      | 47.89       |
| 4 Industrial                   | 58.036  | ..       | 3,91.304 | 4,49.340   | 65.212   | 3,72.870 | 4,38.082   | 1,23.248     | 7,64.174  | 8,87.422    | 1,34.16   | 4,17.82   | 5,51.98     |
| 5 Agricultural                 | 15.347  | ..       | ..       | 15.347     | 4,09.004 | 0.657    | 4,09.661   | 4,24.351     | 0.657     | 4,25.008    | 3,24.09   | 0.49      | 3,24.58     |
| 6 Traction including Railways. | 0.378   | ..       | 37.841   | 38.219     | 0.309    | 0.373    | 0.682      | 0.687        | 38.214    | 38.901      | 1.47      | 34.00     | 35.47       |
| 7 Bulk supply to licensees.    | ..      | ..       | 247.918  | 247.918    | ..       | 70.401   | 70.401     | ..           | 3,18.319  | 318.319     | ..        | 1,56.33   | 1,56.33     |
| 8 Government departments.      | 11.841  | ..       | 41.386   | 53.227     | 0.491    | 28.393   | 28.884     | 12.332       | 69.779    | 82.111      | 26.54     | 42.10     | 68.64       |
| 9 Miscellaneous                | 1.949   | ..       | 3.950    | 5.899      | 1.740    | 4.935    | 6.675      | 3.689        | 8.885     | 12.574      | 46.03     | 13.41     | 59.44       |
| Total ..                       | 217.875 | ..       | 749.387  | 966.262    | 530.466  | 525.681  | 10,56.147  | 748.341      | 12,74.068 | 20,22.409   | 985.61    | 7,18.25   | 17,03.86    |

## APPENDIX H.

## HYDRO AND MADRAS THERMAL GRID.

## Conditions and Rates for the Supply of energy.

## Part I.

## HIGH TENSION POWER SUPPLY (11,000 VOLTS, 22,000 VOLTS OR 5,000 VOLTS).

## I. Supply to industrial establishments and licensees—

| Class and monthly consumption in K.W.H. | Rate per K.W.H. | Rate per K.V.A. of Maximum demand per month. |
|-----------------------------------------|-----------------|----------------------------------------------|
| (1)                                     | (2)             | (3)                                          |
| (IN NAYE PAISE)                         |                 |                                              |
| For the first 100,000 units .. .. .     | 4.70            | + For the first 1,000 K.V.A.                 |
| Next 200,000 units .. .. .              | 3.75            | Rs. 6.                                       |
| Next 500,000 units .. .. .              | 3.15            | + For the excess above                       |
| For excess 300,000 units above .. .. .  | 2.85            | 1,000 K.V.A. Rs. 5.                          |

(i) The above tariff is subject to a minimum payment of Rs. 2,400 per annum per service.

(ii) In the case of new industries concessional tariff amounting to four-fifths of the H.T. rates indicated above will be charged for the first three years after the commencement of production.

(iii) The above tariff is based upon the cost of fuel delivered to the boilers being not more than Rs. 20 per ton with a calorific value of 9,600 B. Th. U. per pound. Should the cost be higher, the following increase will be made in the energy charge for supply in the area covered by the Madras Thermal Station:—

For every one rupee increase in the price of fuel in terms of its calorific value above Rs. 20 as aforesaid 0.15 naye Paise per unit, fractions of a rupee exceeding 50 naye paise being counted as one rupee and fractions not exceeding 50 naye Paise being ignored. The charges levied and collected from the consumers in this regard will not be taken into account for purposes of annual minimum charges under this tariff.

For the purpose of this clause, samples of fuel will be taken from the consignments received from the suppliers and analysed by the Engineer of the Board. The cost and calorific value of fuel which will form the basis of power Bills in any month will be the average cost and calorific value of the consignments delivered to the boilers in that month.

All monthly payments shall be subject to adjustment within six months based on the results of analysis. In case of disagreement, a representative sample will be analysed at the Chemical Testing and Analytical Laboratory, Madras.

II. Film production, commercial and non-industrial purposes.—Rates in item I plus 20 per cent. This 20 per cent will not apply to the fuel surcharge in item I (iii).

III. Supply to tea estate.—The rate for tea factory lighting and power provided that the load of lighting and fans does not exceed 15 per cent of the total industrial load will be as follows:—

|                                |                           |
|--------------------------------|---------------------------|
| First 2,000 units per month .. | 12.5 naye Paise per unit. |
| All in excess .. .. .          | 6.5 Do.                   |
| Minimum monthly charge ..      | Rs. 150.                  |

In case where a group of factories under the same management is established in the same area near Board's High Tension lines, the Standard High Tension Tariff—(Tariff I) shall be applicable, always provided that a minimum of Rs. 4,800 per annum is guaranteed at each point of supply. In such cases, connecting lines between factories shall be constructed and maintained by the consumers.

IV. Special rates.—Rates for Railway electrification isolated installations, Electro Chemical factories or special loads will be arranged by negotiation.

V. Power factor.—Should the power factor fall below 0.7, the power service may be disconnected at the discretion of the Engineer. The service will not be reconnected until the power factor has been corrected to 0.8 or above.

The power factor shall be that determined during the half hour of Maximum Demand on any working day in the month.

VI. Demand charges.—The demand payment will be a fixed monthly charge whether energy is consumed or not and constitute a minimum monthly payment. It will be based on the KVA of demand recorded in that month or the average of the recorded demands for the twelve months ending with the month in question whichever is higher.

VII. Seasonal demand.—For loads of strictly seasonal character, when the main plant is regularly closed down during certain months in the year, the minimum charge during the months in which the machinery is entirely or partially shut down will be waived in full or proportionately. This concession is subject to the express conditions—

(i) that the total amount paid for power during the year must exceed the maximum monthly demand multiplied by twelve times the monthly demand charge otherwise the balance will be charged for; and

(ii) that the consumer gives previous notice in writing to the department of the total or partial closing down of the machinery.

VIII. Unless specified otherwise all High Tension rates refer to one point of supply only.

IX. In all contracts for an Industrial Electric Power Supply (including Tea Estates) at High Tension under Tariff I, the connected load under lighting and other non-industrial purposes including appliances but not for resale must not exceed 15 per cent of that for power and heating.

The consumer shall utilize the energy for lighting solely for bona fide purposes of factory and its industrial activities within the premises of the factory.

Electrical energy used for lighting and non-industrial purposes in excess of the 15 per cent mentioned above shall be charged for at L.T. Tariff I (b).

X. In urban areas, as a general rule, no low tension service will be given where the connected load per service is 75 horse-power or more, nor high-tension service given where the connected load is less than 75 horse-power. Exemptions may be made in special cases after obtaining the sanction of the Chief Operation Engineer. In rural areas, the type of service will depend upon the cost of providing the necessary lines and equipment.

XI. Subject to the provision of the Indian Electricity Act, 1910, affecting this clause, the Board does not bind itself to connect any installation unless the guaranteed annual revenue is sufficient to cover the cost of service and the supply of electrical energy.

NOTE.—The above tariffs are subject to revision or to levy of any surcharge as may be decided by the Board from time to time.

## PART II.

## LOW TENSION SUPPLY.

I. (a) Domestic purposes, i.e., for those who do not come under Domestic Bulk Supply Tariff.

|                                |                         |
|--------------------------------|-------------------------|
| First 50 units per month .. .. | 29 naye Paise per unit. |
| Next 50 units per month .. ..  | 25 naye Paise per unit. |
| All in excess per month .. ..  | 22 naye Paise per unit. |

Minimum Re. 1 and 75 naye Paise per month per service.

(b) General purposes.—Lighting or combined installation of lights and fans applicable to non-domestic consumers, i.e., commercial premises industrial lighting etc.

|                               |                         |
|-------------------------------|-------------------------|
| First 100 units per month ..  | 29 naye Paise per unit. |
| Next 400 units per month ..   | 27 naye Paise per unit. |
| Next 2,000 units per month .. | 25 naye Paise per unit. |
| All in excess per month ..    | 22 naye Paise per unit. |

Minimum Re. 1 and 75 naye Paise per month per service.

## II. Public lighting—

## (i) Metered basis—

|                                 |                         |
|---------------------------------|-------------------------|
| First 16,000 units per month .. | 16 naye Paise per unit. |
| All in excess .. ..             | 13 naye Paise per unit. |

Installation of street-light, fixtures, etc., and lamp renewals provided by the Board.

Minimum consumption of 1,000 units per month must be guaranteed.

## (ii) All-in-rate including fixtures and lamp renewals—

|                                               |
|-----------------------------------------------|
| Each lamp of 40 watts at Rs. 2.00 per month.  |
| Each lamp of 60 watts at Rs. 3.00 per month.  |
| Each lamp of 100 watts at Rs. 4.00 per month. |

For lamps of higher wattages, proportionate charges based on the rate for 100 watts lamps shall be paid.

(iii) Mercury vapour lamps.—All-in-rates inclusive of installation of fixtures and renewals by the Board.

|                |    |    |    |    |    | Rates per month. |
|----------------|----|----|----|----|----|------------------|
|                |    |    |    |    |    | RS. NP.          |
| 80 watts lamps | .. | .. | .. | .. | .. | 10 00            |
| 100 " "        | .. | .. | .. | .. | .. | 12 00            |
| 125 " "        | .. | .. | .. | .. | .. | 13 00            |
| 200 " "        | .. | .. | .. | .. | .. | 18 00            |
| 250 " "        | .. | .. | .. | .. | .. | 20 00            |
| 400 " "        | .. | .. | .. | .. | .. | 25 00            |

NOTE.—(1) For the tariff in items (ii) and (iii) the number of burning hours shall be decided from time to time with the local authority but shall not exceed 2,400 hours per annum. Any extra hours of burning shall be paid for in proportion.

(2) If lamp is renewed more than three times in one calendar year, it shall be at the cost of the local authority.

(iv) Fluorescent Tube Lights.—All in rates inclusive of installation of fixtures and renewals by the Board for lamps burning 200 hours per month or 2,400 hours per annum.

Rate per month.  
RS. NP.

|                                                            |      |
|------------------------------------------------------------|------|
| Two Numbers 20 watts (Twin-type) lamp (or one 40 watts) .. | 4 00 |
| Two Numbers 40 watts (Twin-type) lamp (or one 80 watts) .. | 7 00 |

For longer number of burning hours, the charges will be increased *pro rata*. For lamps of higher watts proportionate charges based on the rate for two 40 watts (twin-type) lamps shall be paid.

This rate will also apply for public lighting in parks, markets, cart-stands and private streets.

III. Domestic bulk supply.—Lighting, fans refrigerators, cookers and similar domestic appliances on a combined circuit. Where the connected and utilized load in electrical equipment (other than lights, radio and fans) is not less than 1,000 watts.

(a) Fixed monthly charge per service Rs. 10 for the first 2 K.W. of connected load in lights and fans and Rs. 5 for each additional K.W. or part thereof.

Plus.

(b) energy charge at 10 naye Paise per unit.

In no case will the overall unit rate be higher than 29 naye Paise per unit in any one month without prejudice to the fixed monthly charge.

This tariff is applicable to bona fide domestic consumers only.

IV. Factory lighting for consumers under Tariff V (a)—Lighting to be on a separate circuit and metered and charged for under Tariff I (b).

Minimum Re. 1 and 75 naye Paise per month per service.

Where lamps are connected to the powder circuits for use in factory or factory yard only a flat rate of Re. 1 and 50 naye Paise per month for 40 watts lamp will be charged. Larger lamps in proportion.

V. (a) Power loads—For supply to low tension power consumers—

Ten naye Paise per unit for the first 2,000 units per month.

Nine naye Paise per unit for anything in excess.

Monthly minimum Rs. 2 per H.P. (or equivalent) connected load. Fraction of a H.P. (or equivalent) will be reckoned as one H.P. for levy of monthly minimum charges.

NOTE.—For supply to welding set, this rate will be increased by 20 per cent.

V. (b) Combined lighting and power loads—For mixed loads of lighting, fans, heating and power where the connected load for lighting and fans is less than 50 per cent of the total connected load—19 naye Paise per unit.

Monthly minimum Rs. 50 per service.

VI. Agricultural services.—For supply to bona fide agricultural services with a connected load of not less than 3 H.P. per service—7 naye Paise per unit.

Annual minimum Rs. 15 per H.P. connected.

The annual minimum may be waived proportionate to the number of days in which the consumer is unable to use power owing to scarcity of water in the wells due to exceptional drought. The waiver of the minimum is subject to the condition that the consumer sends due intimation in writing to the Electricity Board as soon as the well becomes dry and the fact confirmed by an Officer of the rank not lower than that of an Assistant Engineer.

In the case of special guarantees, the consumer should agree to the extension of the period of the agreement by the period equivalent to that for which waiver of guarantee is permitted.

This rate will also be applicable to bona fide small cottage industries having a connected horse-power not exceeding 5. This limit may however be relaxed by the Chief Engineer for Electricity under special conditions.

VII. *Bazaar lamps*—Re. 1 and 75 naye Paise per calendar month per 40 watts lamp burning 5 hours daily. Lamps of larger capacity in proportion.

Monthly payment in advance and no agreement or deposit required, where bills are not paid at the local office or by post by 3 p.m. on the first of the month following that in which they are issued, the service will be disconnected.

The above tariff will be applicable to the existing consumers only. No new service connection will be given under this tariff.

NOTE.—The above tariffs are subject to revision or to levy of any surcharge as may be decided by the Board from time to time.

### PART III.

#### Terms and conditions for temporary service connections

Temporary service connections will be given on the following terms:—

(i) *Service connection charges*.—As for permanent service connections the temporary consumer shall however be given a refund of the depreciated value of the material retrieved from the temporary service connection less dismantling charges plus 15 per cent thereon for office expenses. But the consumer will have to bear the entire cost of the service line from the distributing main of the Board.

(ii) *Meter rent*.—Meter rent will be charged at Re. 1 for each single-phase meter and Rs. 2 for each poly-phase meter for the period specified in clause (iii) below or part thereof.

(iii) The maximum period is ordinarily 30 days.

(iv) The tariff applicable and minimum will be as follows:—

| Item.                                                    | Tariff.                                                                           | Minimum.                                                                                                                   |
|----------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| (a) Lighting or combined installation of lights and fans | L.T. Tariff I (a) and (b)                                                         | Rs. 20 per service.                                                                                                        |
| (b) Motive power heating, etc.                           | L.T. Tariff V (a)                                                                 | Rs. 15 per H.P. connected for the first 30 days and Rs. 5 per H.P. connected for each of the next 15 days or part thereof. |
| (c) Mixed load of lights and power.                      | L.T. Tariff V (b)                                                                 | Rs. 100 per service for the first 30 days and Rs. 50 for each of the next 15 days or part thereof.                         |
| (d) Exhibition                                           | First 10,000 units at L.T. Tariff I (b). All in excess at 13 naye Paise per unit. | Minimum Rs. 500 per service for the first 30 days and Rs. 250 for each of the next 15 days or part thereof.                |

(v) A security deposit shall be calculated at six hours a day for the maximum connected load for the declared period of temporary connection. This deposit together with the service line charges and the meter rent shall be paid in advance of erection of the service line. The deposit shall be adjusted within four weeks of disconnection.

(vi) Temporary supply may be extended at the discretion of the Engineer-in-charge of power systems for additional periods of 15 days each but subject to maximum period of one year in each case, provided that for each such period a meter rent of Re. 1 or Rs. 2 as the case may be, is paid and a minimum bill of Rs. 10 under Tariff I (a) and (b) Rs. 5 per H.P. connected under Tariff V (a) and Rs. 50 under Tariff V (b) is guaranteed. For longer periods, the approval of higher authorities should be sought for.

NOTE.—1. In the case of temporary supply to touring cinemas and exhibitions the deposit in respect of service line charges will be limited to the cost of irretrievable material, labour for erection and dismantling, centage charges and 10 per cent of the cost of the retrievable items.

2. The depreciation shall be normally recovered at 10 per cent on the cost of retrieved materials irrespective of the period. However, in cases of temporary services of large magnitude requiring H.T. supply and involving erection of transformers and cables for extension of mains, the depreciation on the cost of retrieved materials shall be levied at one per cent per month or at 10 per cent for the whole period whichever is less.

### PART IV.

#### Miscellaneous charges and general conditions.

1. *Service connection*.—For connecting up an installation, the Board shall be entitled to charge the consumer the actual cost of materials and labour involved plus 15 per cent. The consumer will be required to pay for all the service line laid upon the consumer's property and for that length placed beyond 100 feet from the distributing main of the Board although not on that property.

Extension to service lines or improvements and alteration to service lines to meet the increased maximum demand will be charged on the same basis. In each case, the consumer will be furnished with an estimate of the cost of the work and this amount is payable in advance. On completion of the work, a bill for the actual amount payable will be forwarded to the consumer and any difference must be paid or refunded as the case may be. In the case of agricultural services, the service line will be laid free of charges to the consumer provided the cost of the service line does not exceed Rs. 60 per H.P. of connected load.

2. *Meter charges*.—(a) Hire of meter where it is the property of the Board.—

|                                |       |                                |
|--------------------------------|-------|--------------------------------|
| Single-phase meter             | .. .. | 38 naye Paise per meter/month. |
| Poly-phase meter               | .. .. | Rs. 1.00 do.                   |
| Demand or special type meter.. | .. .. | Rs. 4.00 do.                   |

#### Time switches—

|              |       |                   |
|--------------|-------|-------------------|
| Single-phase | .. .. | Re. 1 per mensem. |
| Poly-phase   | .. .. | Rs. 2 do.         |

NOTE.—For the first month of service connection the meter rent will be proportionate to the number of days in the month for which the current is supplied. For the month in which the meter is removed on or after disconnection of a service and/or installed after reconnection, the meter rent will be proportionate to the number of days in the month during which the meter remains in the premises of the consumer. Such proportionate charges will be rounded to the nearest naye Paise.

(b) Changing or moving a meter board—Actual cost plus 15 per cent.

(c) For changing meter permanently or installing additional meter at the request of the consumer where it is not necessitated by increase in consumption and demand—Rs. 5.

(d) For testing a meter, if it should be proved to be correct within the limits laid down by the rules.—

|                                  | RS. |
|----------------------------------|-----|
| Single-phase meter .. .. .       | 5   |
| Poly-phase meter .. .. .         | 10  |
| Demand or special type .. .. .   | 25  |
| Time-switch single-phase .. .. . | 2   |
| Time-switch three-phase .. .. .  | 5   |

(e) When the seal of a meter installed in a consumer's premises is found on inspection to be missing or tampered with the meter will be tested by the Board and if found to be incorrect will be changed by the Board and a charge of Rs. 5 will be made for the changing.

(f) For replacement of meter cards if lost or damaged, a fee of 25 nP. (twenty-five naye Paise) will be levied:

Provided, however, where the space in the cards are used up, replacement will be free of cost.

3. *Testing installations.*—The first test and inspection will be carried out free of charge but should any further test or inspection be necessitated by faults in the installation or by non-compliance with conditions of supply per extra test required (payable in advance) Rs. 10.

#### 4. Re-connection charges—

(a) Up to 75 K.W. of connected load—

|                              | RS. |
|------------------------------|-----|
| At cut outs .. .. .          | 5   |
| At overhead mains .. .. .    | 10  |
| At underground mains .. .. . | 30  |

(b) Over 75 K.W. the above charges will be doubled.

(c) If the same consumer is re-connected within twelve months from the date of last re-connection, 50 per cent will be added to the foregoing charges.

(d) Flat rate services—(i) In the case of a consumer requiring temporary disconnection, the re-connection fee payable for effecting disconnection and re-connection is Rs. 3.

(ii) For disconnecting and re-connecting a defaulter, the fee payable is the amount that would, but for the disconnection, have been due from the date of disconnection, to the date of re-connection subject to a maximum of Rs. 5 and a minimum of Rs. 3.

#### 5. Replacing consumers' fuses of 400 volts or less—

|                        | EACH IN<br>RS. NP. |
|------------------------|--------------------|
| Up to 25 amps. .. .. . | 0 75               |
| 25—100 amps. .. .. .   | 1 00               |

The charge is per call irrespective of the number of fuses renewed including unnecessary calls.

### GENERAL CONDITIONS.

1. All bills not paid within thirty days from the date of issue of the bills will be subject to a surcharge of one per cent per month. The surcharge will be levied on overdue bills to the nearest naye Paise subject to a minimum of 25 naye Paise. Consumers are also liable to have the electrical supply discontinued after seven days' notice if the bills are overdue for more than thirty days.

2. The standard tariffs are applicable only in cases where the installation is located reasonably near the power lines and feeders.

3. Unless otherwise agreed to, all rates for power supply apply to one point of supply only.

4. Except lamps used for indicating pilot or similar purposes, no lighting will be allowed under L.T. Tariff V (a). The wattage in these cases will be limited to 15 watts. All industrialists using L.T. power for factory lighting will be charged for in accordance with L.T. Tariff IV. The agricultural consumers will, however, be permitted a limited amount of lighting up to 50 watts per 1,000 watts of connected motive power only for lighting in and around the pump room, farm house and cattle-yard. Energy for radios and other appliances shall be metered separately and charged for at the appropriate tariff.

5. On the conversion of a flat rate to a metered service, the consumer shall be charged only the depreciated cost of materials, depreciation being reckoned at 5 per cent per year.

6. In the case of flat rate service under Tariff IV where fluorescent or mercury vapour lamps are connected to the power circuits, the rate shall be increased as below:—

- (i) Fluorescent lamps with choke and } 50 per cent over the rate for ordinary  
condenser. } lamps.
- (ii) Fluorescent lamps either with } 100 per cent over the rates for  
chokes or resistances alone with } ordinary lamps.  
out correcting equipment.

NOTE.—The lamps and connected equipment shall in all cases be installed by the consumer at his cost.

7. In the case of flat rate tariffs, the Board may at its discretion install meters to check consumption. Energy consumed in excess of that computed under the tariff will be charged pro rata. No refund will however be made if the recorded consumption is less than the maximum permitted by the tariff. No meter rent will be charged in such cases.

8. The above tariffs are subject to revision or levy of any surcharge as may be decided by the Board from time to time.

## APPENDIX I.

Statement showing the strength of staff—Madras State Electricity Board—As on 31st March 1962.

|                                                          |    |    |    |    |    |       |
|----------------------------------------------------------|----|----|----|----|----|-------|
| <b>I. Engineering and Electrical Service—</b>            |    |    |    |    |    |       |
| Chief Engineer for Electricity                           | .. | .. | .. | .. | .. | 1     |
| Chief Operation Engineer                                 | .. | .. | .. | .. | .. | 1     |
| Chief Distribution Engineer                              | .. | .. | .. | .. | .. | 1     |
| Chief Construction Engineer                              | .. | .. | .. | .. | .. | 1     |
| Superintending Engineer                                  | .. | .. | .. | .. | .. | 18    |
| Divisional Engineer/Executive Engineer                   | .. | .. | .. | .. | .. | 92    |
| Assistant Engineer                                       | .. | .. | .. | .. | .. | 399   |
| Stores Superintendent                                    | .. | .. | .. | .. | .. | 11    |
| Chemist                                                  | .. | .. | .. | .. | .. | 1     |
| Chief Head Draftsman                                     | .. | .. | .. | .. | .. | 1     |
| <b>II. General Service—</b>                              |    |    |    |    |    |       |
| Chief Controller of Accounts                             | .. | .. | .. | .. | .. | 1     |
| Accounts Officer                                         | .. | .. | .. | .. | .. | 3     |
| Chief Accountant                                         | .. | .. | .. | .. | .. | 25    |
| Deputy Chief Accountant                                  | .. | .. | .. | .. | .. | 69    |
| Personal Officer                                         | .. | .. | .. | .. | .. | 1     |
| Assistant Administration                                 | .. | .. | .. | .. | .. | 18    |
| Labour Welfare Officer                                   | .. | .. | .. | .. | .. | 3     |
| <b>III. Electrical Subordinate Service—</b>              |    |    |    |    |    |       |
| Junior Engineer/Supervisor I Grade                       | .. | .. | .. | .. | .. | 484   |
| Junior Engineer (Civil)                                  | .. | .. | .. | .. | .. | 63    |
| Supervisor (Civil)                                       | .. | .. | .. | .. | .. | 353   |
| Supervisor (Electrical) II Grade and P.W.D. Electricians | .. | .. | .. | .. | .. | 501   |
| Draftsman I Grade                                        | .. | .. | .. | .. | .. | 12    |
| Draftsman II Grade                                       | .. | .. | .. | .. | .. | 46    |
| Draftsman III Grade                                      | .. | .. | .. | .. | .. | 144   |
| Tracers                                                  | .. | .. | .. | .. | .. | 139   |
| Chief Store-Keeper/Stock Verifier                        | .. | .. | .. | .. | .. | 32    |
| Instrument Repairer I Grade                              | .. | .. | .. | .. | .. | 1     |
| Instrument Repairer II Grade                             | .. | .. | .. | .. | .. | 1     |
| Transport Overseer I Grade                               | .. | .. | .. | .. | .. | 3     |
| Transport Overseer II Grade                              | .. | .. | .. | .. | .. | 15    |
| Junior Chemist                                           | .. | .. | .. | .. | .. | 2     |
| Assistant Chemist                                        | .. | .. | .. | .. | .. | 3     |
| <b>IV. General Subordinate Service—</b>                  |    |    |    |    |    |       |
| Bill Collectors                                          | .. | .. | .. | .. | .. | 819   |
| Inspector of Bill Collectors                             | .. | .. | .. | .. | .. | 6     |
| Sub-Inspector of Bill Collectors                         | .. | .. | .. | .. | .. | 62    |
| Attenders                                                | .. | .. | .. | .. | .. | 100   |
| <b>V. Ministerial Service—</b>                           |    |    |    |    |    |       |
| Divisional Accountant                                    | .. | .. | .. | .. | .. | 14    |
| Senior Superintendent/Senior Accountant                  | .. | .. | .. | .. | .. | 8     |
| Junior Superintendent/Accountant                         | .. | .. | .. | .. | .. | 328   |
| Upper Division Clerks                                    | .. | .. | .. | .. | .. | 1,037 |
| Lower Division Clerks                                    | .. | .. | .. | .. | .. | 2,774 |

## APPENDIX I—cont.

Statement showing the strength of staff—Madras State Electricity Board—As on 31st March 1962—cont.

|                                                                             |    |    |    |    |    |               |
|-----------------------------------------------------------------------------|----|----|----|----|----|---------------|
| <b>V. Ministerial Service—cont.</b>                                         |    |    |    |    |    |               |
| Steno Typist/Typist                                                         | .. | .. | .. | .. | .. | 373           |
| Store-Keeper Grade I                                                        | .. | .. | .. | .. | .. | 57            |
| Store-Keeper Grade II                                                       | .. | .. | .. | .. | .. | 159           |
| Senior Audit Assistant                                                      | .. | .. | .. | .. | .. | 1             |
| Audit Assistant                                                             | .. | .. | .. | .. | .. | 4             |
| <b>VI. Last Grade Service—</b>                                              |    |    |    |    |    |               |
| Peons and Daffadar                                                          | .. | .. | .. | .. | .. | 1,269         |
| <b>VII. Operation Subordinate Service/Construction Subordinate Service.</b> |    |    |    |    |    |               |
|                                                                             |    |    |    |    |    | 16,645        |
| <b>VIII. Workcharged Establishment</b>                                      |    |    |    |    |    |               |
|                                                                             | .. | .. | .. | .. | .. | 2,218         |
| <b>IX. Nominal Muster Roll staff</b>                                        |    |    |    |    |    |               |
| Temporary Casual labour staff                                               | .. | .. | .. | .. | .. | 7,352         |
|                                                                             | .. | .. | .. | .. | .. | 13,590        |
| <b>X. Contingent Establishment</b>                                          |    |    |    |    |    |               |
|                                                                             | .. | .. | .. | .. | .. | 365           |
| <b>XI. Madras Medical Service—</b>                                          |    |    |    |    |    |               |
| Assistant Surgeon/Medical Officer                                           | .. | .. | .. | .. | .. | 11            |
| <b>XII. Madras Medical Subordinate Service—</b>                             |    |    |    |    |    |               |
| Compounder/Pharmacist                                                       | .. | .. | .. | .. | .. | 15            |
| Health Inspector                                                            | .. | .. | .. | .. | .. | 9             |
| Maternity Assistant                                                         | .. | .. | .. | .. | .. | 9             |
| Laboratory Assistant                                                        | .. | .. | .. | .. | .. | 1             |
| Male Nursing Orderly                                                        | .. | .. | .. | .. | .. | 9             |
| Female Nursing Orderly                                                      | .. | .. | .. | .. | .. | 5             |
| <b>Total</b>                                                                |    |    |    |    |    | <b>49,785</b> |

## APPENDIX J.

TOTAL CAPACITIES OF PLANTS INSTALLED IN THE POWER STATIONS IN SERVICE OF THE  
MADRAS STATE ELECTRICITY BOARD.

| Name of undertaking.                   | Total installed capacity of the plant in generating station. | Details of plant installed.              | Type of prime mover.            | Voltage of generation. |
|----------------------------------------|--------------------------------------------------------------|------------------------------------------|---------------------------------|------------------------|
| (1)                                    | (2)                                                          | (3)                                      | (4)                             | (5)                    |
| 1. Pykara Power House                  | 70,200 K.W.                                                  | 3 × 7,810 + 2 × 12,500 + 2 × 16,000 KVA. | Pelton wheel (impulse turbine). | 11 K.V.                |
| 2. Moyar Power House                   | 36,000 K.W.                                                  | 3 × 14,100 KVA. at 0.85 P.F.             | Do.                             | Do.                    |
| 3. Mettur Power House                  | 40,000 K.W.                                                  | 4 × 12,500 KVA.                          | Reaction turbine                | Do.                    |
| 4. Papanasam Power House               | 28,000 K.W.                                                  | 4 × 7,250 KVA.                           | Do.                             | Do.                    |
| 5. Periyar Power House                 | 105,000 K.W.                                                 | 3 × 35,000 K.W.                          | Vertical reaction turbine       | Do.                    |
| 6. Kundah—                             |                                                              |                                          |                                 |                        |
| (a) Canada Power House I               | 40,000 K.W.                                                  | 2 × 24,000 KVA. at 0.9 P.F.              | Pelton Wheel (impulse turbine). | Do.                    |
| (b) Canada Power House II              | 140,000 K.W.                                                 | 4 × 42,000 KVA. at 0.9 P.F.              | Do.                             | Do.                    |
| 7. Basin Bridge—                       |                                                              |                                          |                                 |                        |
| (a) Basin Bridge 'A' Station           | 27,500 K.W.                                                  | 1 × 12,500 + 1 × 15,000 K.W.             | Steam turbine                   | 5 K.V.                 |
| (b) Basin Bridge 'B' Station           | 30,000 K.W.                                                  | 2 × 15,000 K.W.                          | Do.                             | 11 K.V.                |
| (c) Basin Bridge 'C' Station           | 30,000 K.W.                                                  | 1 × 30,000 K.W.                          | Do.                             | Do.                    |
| 8. Samsyanallur Power House            | 14,000 K.W.                                                  | 1 × 4,000 + 1 × 10,000 K.W.              | Do.                             | 6.6 K.V., 11 K.V.      |
| 9. Rameswaram Devasthanam Power House. | 568 K.W.                                                     | 2 × 224 + 1 × 56 + 1 × 64 K.W.           | Diesel set                      | 420 Volts              |
|                                        | 561,268 K.W.                                                 |                                          |                                 |                        |

NOTE.—The total effective generating capacity of T.A. sets in Basin Bridge 'A' station is 16,000 K.W. the derated value as on 31st March 1962, pending the reblading work proposed to be taken up later.

Since the Hydro supply to Rameswaram Island was extended on 26th October 1961 the diesel sets are kept as standby.

1 × 5,000 K.W. and 1 × 6,000 K.W. T.A. sets in Basin Bridge 'A' Station were removed to facilitate civil works connected with the erection of additional 150,000 lb./hour boiler. Hence the total installed capacity has been reduced by 11,000 K.W. during the year.

## APPENDIX K.

## TRANSMISSION AND DISTRIBUTION LINES.

## Abstract.

Length of high tension lines as on 31st March 1962.

| Voltage. | Single circuit. |             | Double circuit. |                   |
|----------|-----------------|-------------|-----------------|-------------------|
|          | (1)             | (2)         | (3)             |                   |
|          |                 | K.M. Miles. | K.M. Miles.     |                   |
| 230 K.V. | ..              | 478.563     | 297.110         | ..                |
| 110 K.V. | ..              | 1,343.273   | 834.752         | 883.392 548.520   |
| 66 K.V.  | ..              | 1,846.303   | 1,147.270       | 434.384 269.910   |
| 33 K.V.  | ..              | 1,563.856   | 971.644         | ..                |
| 22 K.V.  | ..              | 6,275.331   | 3,899.726       | 170.128 105.760   |
| 11 K.V.  | ..              | 13,392.435  | 8,322.035       | 115.105 71.510    |
| 6.6 K.V. | ..              | 133.428     | 82.920          | ..                |
| 5 K.V.   | ..              | 206.644     | 128.430         | ..                |
| 3.3 K.V. | ..              | 54.807      | 34.055          | ..                |
| Total    | ..              | 25,294.640  | 15,717.942      | 1,603.009 995.700 |

H. T. Lines total—26,897.649 K.M. 16,713.642 miles.  
L. T. Lines total—41,123.583 K.M. 25,552.999 miles.

Lines in Licensees area—  
H. T. 2,356 k.m. 1,464 miles.  
L. T. 4,789 k.m. 2,976 miles.

## 1. Pykara Electricity System.

| Voltage.           | Constructed during 1961-62. |                 | Total at the end of 1961-62. |                           |
|--------------------|-----------------------------|-----------------|------------------------------|---------------------------|
|                    | (2)                         | (3)             | (4)                          | (5)                       |
|                    | Single circuit.             | Double circuit. | Single circuit.              | Double circuit.           |
|                    | K.M. Miles.                 |                 | K.M. Miles.                  | K.M. Miles.               |
| 110 K.V.           | ..                          | ..              | 98.166                       | 60.960 35.420 22.000      |
| 66 K.V.            | ..                          | ..              | 15.896                       | 9.800 192.390 119.500     |
| 22 K.V.            | 250.191                     | 155.398         | 1,985.932                    | 1,234.019 147.598 91.760  |
| 11 K.V.            | 3.466                       | 2.153           | 923.154                      | 573.645 75.730 47.040     |
| Total              | 253.657                     | 157.551         | 3,023.148                    | 1,878.424 451.138 280.300 |
| Low tension lines. | 825.988                     | 513.036         | 6,330.553                    | 3,933.046 ..              |

## 2. Mettur Electricity System.

| Voltage.           | Constructed during 1961-62. |                 | Total at the end of 1961-62. |                         |
|--------------------|-----------------------------|-----------------|------------------------------|-------------------------|
|                    | (2)                         | (3)             | (4)                          | (5)                     |
|                    | Single circuit.             | Double circuit. | Single circuit.              | Double circuit.         |
|                    | K.M. Miles.                 |                 | K.M. Miles.                  | K.M. Miles.             |
| 230 K.V.           | ..                          | ..              | 114.960                      | 71.150 ..               |
| 110 K.V.           | ..                          | ..              | 159.950                      | 99.410 ..               |
| 66 K.V.            | ..                          | ..              | 32.980                       | 20.500 49.880 31.010    |
| 33 K.V.            | ..                          | ..              | 229.890                      | 142.850 ..              |
| 22 K.V.            | 237.070                     | 147.340         | 1,565.740                    | 973.050 ..              |
| 11 K.V.            | 231.070                     | 143.610         | 2,156.700                    | 1,340.080 3.670 2.280   |
| Total              | 468.140                     | 290.950         | 4,230.220                    | 2,647.040 53.550 33.290 |
| Low tension lines. | 1,302.530                   | 747.380         | 9,157.760                    | 5,689.780               |

## APPENDIX K—cont.

## TRANSMISSION AND DISTRIBUTION LINES—cont.

## 3. Madurai Electricity System.

| Voltage.<br>(1)    | Constructed during<br>1961-62. |         | Total at the end of<br>1961-62. |        |                 |           |
|--------------------|--------------------------------|---------|---------------------------------|--------|-----------------|-----------|
|                    | Single circuit.                |         | Double circuit.                 |        | Single circuit. |           |
|                    | K.M.                           | Miles.  | K.M.                            | Miles. | K.M.            | Miles.    |
| 110 K.V.           | 34.406                         | 22.000  | ..                              | ..     | 101.880         | 63.080    |
| 66 K.V.            | 64.406                         | 40.020  | ..                              | ..     | 384.800         | 239.120   |
| 33 K.V.            | ..                             | ..      | ..                              | ..     | 97.832          | 60.790    |
| 22 K.V.            | 80.749                         | 50.175  | ..                              | ..     | 1,002.903       | 623.148   |
| 11 K.V.            | 246.204                        | 152.984 | ..                              | ..     | 1,800.066       | 1,118.578 |
| 6.6 K.V.           | 5.311                          | 3.300   | ..                              | ..     | 88.916          | 55.250    |
| 3.3 K.V.           | 7.886                          | 4.900   | ..                              | ..     | 54.807          | 34.055    |
| Total ..           | 438.962                        | 273.379 | ..                              | ..     | 3,531.821       | 2,194.021 |
| Low tension lines. | 706.911                        | 439.192 | ..                              | ..     | 5,492.300       | 3,412.213 |

## 4. Vellore Electricity System.

| Voltage.<br>(1)    | Constructed during<br>1961-62. |         | Total at the end of<br>1961-62. |        |                 |           |
|--------------------|--------------------------------|---------|---------------------------------|--------|-----------------|-----------|
|                    | Single circuit.                |         | Double circuit.                 |        | Single circuit. |           |
|                    | K.M.                           | Miles.  | K.M.                            | Miles. | K.M.            | Miles.    |
| 230 K.V.           | ..                             | ..      | ..                              | ..     | 179.580         | 111.610   |
| 110 K.V.           | ..                             | ..      | ..                              | ..     | 350.746         | 217.990   |
| 66 K.V.            | ..                             | ..      | ..                              | ..     | 396.698         | 246.550   |
| 33 K.V.            | 43.733                         | 27.180  | ..                              | ..     | 787.845         | 489.724   |
| 22 K.V.            | 3.588                          | 2.230   | ..                              | ..     | 45.632          | 28.361    |
| 11 K.V.            | 399.568                        | 248.333 | ..                              | ..     | 4,862.520       | 3,021.579 |
| Total ..           | 446.889                        | 277.743 | ..                              | ..     | 6,623.021       | 4,115.814 |
| Low tension lines. | 891.972                        | 554.364 | ..                              | ..     | 8,838.203       | 5,492.358 |

## 5. Trichy Electricity System.

| Voltage.<br>(1)    | Constructed during<br>1961-62. |         | Total at the end of<br>1961-62. |        |                 |           |
|--------------------|--------------------------------|---------|---------------------------------|--------|-----------------|-----------|
|                    | Single circuit.                |         | Double circuit.                 |        | Single circuit. |           |
|                    | K.M.                           | Miles.  | K.M.                            | Miles. | K.M.            | Miles.    |
| 110 K.V.           | ..                             | ..      | 102.260                         | 63.400 | 344.970         | 214.660   |
| 66 K.V.            | ..                             | ..      | ..                              | ..     | 665.920         | 413.700   |
| 33 K.V.            | 15.320                         | 9.500   | ..                              | ..     | 176.668         | 109.480   |
| 22 K.V.            | 221.650                        | 137.841 | ..                              | ..     | 1,458.872       | 906.544   |
| 11 K.V.            | 153.692                        | 95.600  | ..                              | ..     | 577.633         | 358.999   |
| 6.6 K.V.           | ..                             | ..      | ..                              | ..     | 44.512          | 27.670    |
| Total ..           | 390.662                        | 242.841 | 102.260                         | 63.400 | 3,268.575       | 2,030.993 |
| Low tension lines. | 919.635                        | 571.442 | ..                              | ..     | 4,096.581       | 2,545.482 |

## APPENDIX K—cont.

## TRANSMISSION AND DISTRIBUTION LINES—cont.

## 6. Tirunelveli Electricity System.

| Voltage.<br>(1)    | Constructed during<br>1961-62. |         | Total at the end of<br>1961-62. |        |                 |           |
|--------------------|--------------------------------|---------|---------------------------------|--------|-----------------|-----------|
|                    | Single circuit.                |         | Double circuit.                 |        | Single circuit. |           |
|                    | K.M.                           | Miles.  | K.M.                            | Miles. | K.M.            | Miles.    |
| 110 K.V.           | ..                             | ..      | ..                              | ..     | 54.700          | 34.000    |
| 66 K.V.            | ..                             | ..      | ..                              | ..     | 350.000         | 217.600   |
| 33 K.V.            | ..                             | ..      | ..                              | ..     | 99.780          | 62.000    |
| 11 K.V.            | 169.500                        | 105.700 | ..                              | ..     | 2,055.705       | 1,277.629 |
| Total ..           | 169.500                        | 105.700 | ..                              | ..     | 2,560.185       | 1,591.229 |
| Low tension lines. | 514.500                        | 338.600 | ..                              | ..     | 4,037.102       | 2,509.075 |

## 7. Generation Circle, Erode.

| Voltage.<br>(1)    | Constructed during<br>1961-62. |        | Total at the end of<br>1961-62. |        |                 |         |
|--------------------|--------------------------------|--------|---------------------------------|--------|-----------------|---------|
|                    | Single circuit.                |        | Double circuit.                 |        | Single circuit. |         |
|                    | K.M.                           | Miles. | K.M.                            | Miles. | K.M.            | Miles.  |
| 230 K.V.           | ..                             | ..     | ..                              | ..     | 153.886         | 95.620  |
| 110 K.V.           | ..                             | ..     | ..                              | ..     | 121.490         | 75.500  |
| 66 K.V.            | ..                             | ..     | ..                              | ..     | ..              | 75.639  |
| 22 K.V.            | 4.830                          | 3.000  | ..                              | ..     | 152.902         | 95.010  |
| 11 K.V.            | 3.380                          | 2.100  | 0.700                           | 0.440  | 84.970          | 52.850  |
| Total ..           | 8.210                          | 5.100  | 0.700                           | 0.440  | 513.248         | 318.980 |
| Low tension lines. | ..                             | ..     | ..                              | ..     | ..              | 81.783  |

## 8. Kundah Hydro-Electric Scheme.

| Voltage.<br>(1)    | Constructed during<br>1961-62. |        | Total at the end of<br>1961-62. |        |        |        |
|--------------------|--------------------------------|--------|---------------------------------|--------|--------|--------|
|                    | K.M.                           | Miles. | K.M.                            | Miles. | K.M.   | Miles. |
| 22 K.V.            | 17.630                         | 11.019 | ..                              | ..     | 63.350 | 39.594 |
| Low tension lines. | 5.000                          | 3.125  | ..                              | ..     | 58.980 | 36.863 |

## 9. Madras Electricity System.

| Voltage.<br>(1)   | Lines constructed during<br>1961-62. |         | Total at the end of<br>1961-62. |        |           |           |
|-------------------|--------------------------------------|---------|---------------------------------|--------|-----------|-----------|
|                   | Overhead.                            |         | Underground.                    |        | Overhead. |           |
|                   | K.M.                                 | Miles.  | K.M.                            | Miles. | K.M.      | Miles.    |
| 230 K.V.          | ..                                   | ..      | ..                              | ..     | 30.137    | 18.730    |
| 110 K.V.          | 20.273                               | 12.600  | ..                              | ..     | 111.362   | 69.212    |
| 33 K.V.           | 19.404                               | 12.000  | 1.826                           | 0.824  | 152.467   | 94.759    |
| 11 K.V.           | 31.045                               | 19.294  | 8.298                           | 5.157  | 760.473   | 472.638   |
| 5 K.V.            | ..                                   | ..      | ..                              | ..     | 7.825     | 4.863     |
| Total ..          | 70.722                               | 43.954  | 9.624                           | 5.981  | 1,062.264 | 660.212   |
| Low tension lines | 408.717                              | 254.019 | 58.710                          | 36.488 | 2,344.698 | 1,457.240 |

## 10. Length of lines in Licenses and Local Authority Areas.

| Voltage.<br>(1)             | High Tension. |           | Low Tension. |           |
|-----------------------------|---------------|-----------|--------------|-----------|
|                             | (2)           |           | (4)          |           |
|                             | K.M.          | Miles.    | K.M.         | Miles.    |
| Constructed during 1961-62  | ..            | 148.000   | ..           | 92.000    |
| Total as on 31st March 1962 | ..            | 2,356.000 | ..           | 1,464.000 |

## APPENDIX L.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS.

## Abstract.

## A. GENERATING STATIONS.

| Name.                | Number of Power Transformers. | Capacity in K.V.A. |
|----------------------|-------------------------------|--------------------|
| (1)                  | (2)                           | (3)                |
| Pykara .. .. .       | 11                            | 97,430             |
| Moyar .. .. .        | 3                             | 45,000             |
| Mettur .. .. .       | 4                             | 50,000             |
| Papanasam .. .. .    | 6                             | 36,000             |
| Periyar .. .. .      | 9                             | 1,26,000           |
| Kundah I .. .. .     | 6                             | 48,000             |
| Kundah II .. .. .    | 7                             | 3,18,000           |
| Madras .. .. .       | 6                             | 55,000             |
| Samayanallur .. .. . | 4                             | 21,500             |
| Total .. .. .        | 56                            | 7,06,930           |

## B. SUB-STATIONS.

| Name of system.         | Number of E.H.T. Sub-station. | Capacity in K.V.A. | Number of H.T. Sub-station. | Capacity in K.V.A. |
|-------------------------|-------------------------------|--------------------|-----------------------------|--------------------|
| (1)                     | (2)                           | (3)                | (4)                         | (5)                |
| Pykara .. .. .          | 10                            | 1,97,500           | 2                           | 8,500              |
| Mettur .. .. .          | 10                            | 2,85,000           | 7                           | 12,250             |
| Madurai .. .. .         | 16                            | 1,62,250           | 11                          | 34,350             |
| Vellore .. .. .         | 12                            | 1,35,750           | 20                          | 63,250             |
| Tiruchirappalli .. .. . | 16                            | 1,98,500           | 5                           | 10,750             |
| Tirunelveli .. .. .     | 11                            | 91,750             | 4                           | 7,250              |
| Madras* .. .. .         | 3                             | 2,35,000           | 29                          | 1,54,50            |
| Total .. .. .           | 78                            | 13,06,750          | 78                          | 2,91,200           |

\* Exclusive of Rotaries and Rectifier sub-stations in the city. The Sub-stations Pasmalai in Madurai system, Neyveli in Trichy system and Korattur, Tiruvahore, Ennore in Madras system are included both in E.H.T. and H.T. Stations. Hence the total number of sub-stations as on 31st March 1962 is 151 with connected load of 1,697,950 K.V.A.

## C. DISTRIBUTION TRANSFORMERS.

| Name of System.               | Energised during 1961-1962. |                    | Total as at on 31st March 1962. |                    |
|-------------------------------|-----------------------------|--------------------|---------------------------------|--------------------|
|                               | No.                         | Capacity in K.V.A. | No.                             | Capacity in K.V.A. |
| (1)                           | (2)                         | (3)                | (4)                             | (5)                |
| Paykara .. .. .               | 166                         | 11,375             | 1,722                           | 1,25,590           |
| Mettur .. .. .                | 303                         | 22,285             | 2,400                           | 1,76,063           |
| Madurai .. .. .               | 141                         | 9,745              | 1,314                           | 88,978             |
| Vellore .. .. .               | 324                         | 23,080             | 2,660                           | 1,92,730           |
| Tiruchirappalli .. .. .       | 282                         | 22,497             | 1,198                           | 99,956             |
| Tirunelveli .. .. .           | 102                         | 5,880              | 907                             | 55,995             |
| Madras .. .. .                | 71                          | 7,650              | 1,335                           | 1,32,680           |
| Kundah .. .. .                | 25                          | 5,150              | 38                              | 7,500              |
| Total .. .. .                 | 1,414                       | 1,07,662           | 11,574                          | 8,79,486           |
| Licencees and Municipalities. | 111                         | 9,215              | 1,272                           | 1,10,266           |

## APPENDIX L—cont.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS—cont.

## (1) PYKARA ELECTRICITY SYSTEM.

## (a) INSTALLED CAPACITIES OF TRANSFORMERS IN POWER HOUSE.

| Name.                        | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|------------------------------|---------|-----------------------|--------------------|------------------------------|
| (1)                          | (2)     | (3)                   | (4)                | (5)                          |
| 1 Pykara Power House .. .. . | 3       | 11/66-110             | 7,810              | 23,430                       |
|                              | 2       | 11/110                | 12,500             | 25,000                       |
|                              | 2       | 11/110                | 18,000             | 32,000                       |
|                              | 3       | 11/66                 | 5,000              | 15,000                       |
|                              |         | Total .. .. .         |                    | 95,430                       |
|                              | 1       | 11/11-22              | 2,000              | 2,000                        |

## (b) EXTRA HIGH TENSION SUB-STATIONS.

| Name.                   | Number. | Voltage ratio in K.V.       | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|-------------------------|---------|-----------------------------|--------------------|------------------------------|
| (1)                     | (2)     | (3)                         | (4)                | (5)                          |
| Coimbatore R.S. .. .. . | 4       | 110/66                      | 12,000             | 108,000                      |
|                         | 3       | 110/22-11                   | 10,000             |                              |
|                         | 2       | 110/22-11 (set at 22 K. V.) | 10,000             |                              |
| Madukkarai .. .. .      | 2       | 66/22-11                    | 7,500              | 15,000                       |
|                         | 1       | 66/33-11                    | 5,000              | 5,000                        |
| Singanallur .. .. .     | 2       | 66/22-11 (set at 11 K. V.)  | 5,000              | 10,000                       |
|                         | 2       | 66/33-11                    | 500                | 1,000                        |
| Uppatti .. .. .         | 4       | 66/22-11                    | 3,000              | 12,000                       |
| Udumalpet .. .. .       | 3       | 66/22-11                    | 5,000              | 17,000                       |
| Pollachi .. .. .        | 1       | 66/22-11                    | 2,000              |                              |
| Mettuppalayam .. .. .   | 1       | 110/22/11                   | 10,000             | 10,000                       |
|                         | 2       | 66/33-22 (set at 22 K. V.)  | 1,750              | 3,500                        |
| Oddenchatram .. .. .    | 2       | 110/11                      | 1,000              | 2,000                        |
| Kattabettu .. .. .      | 2       | 110/22                      | 5,000              | 10,000                       |
| Sandynallah .. .. .     | 2       | 22/11                       | 2,000              | 4,000                        |
|                         |         | Total .. .. .               |                    | 1,97,500                     |

## (c) HIGH TENSION SUB-STATIONS.

|                       |   |               |       |       |
|-----------------------|---|---------------|-------|-------|
| Olapalayam .. .. .    | 2 | 33/11         | 2,000 | 4,000 |
| Shenbagapudur .. .. . | 3 | 33/11         | 1,500 | 4,500 |
|                       |   | Total .. .. . |       | 8,500 |

## (2) MOYAR STATION.

|                           |   |        |        |        |
|---------------------------|---|--------|--------|--------|
| Moyar Power House .. .. . | 3 | 11/110 | 15,000 | 45,000 |
|---------------------------|---|--------|--------|--------|

## (3) METTUR ELECTRICITY SYSTEM.

## (a) INSTALLED CAPACITIES OF TRANSFORMERS IN POWER HOUSE.

|                            |   |           |        |        |
|----------------------------|---|-----------|--------|--------|
| Mettur Power House .. .. . | 4 | 11/66/110 | 12,500 | 50,000 |
|----------------------------|---|-----------|--------|--------|

## APPENDIX L—cont.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS—cont.

## 3. METTUR ELECTRICITY SYSTEM—cont.

## (b) EXTRA HIGH TENSION SUB-STATIONS.

| Name.       | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|-------------|---------|-----------------------|--------------------|------------------------------|
| Mettur Dam* | 3       | 110/11-22             | 10,000             | 30,000                       |
| Erode       | 4       | 11/11-22              | 2,000              | 6,000                        |
| Salem       | 2       | 110/66                | 6,000              | 24,000                       |
| Attur       | 2       | 110/22                | 10,000             | 20,000                       |
| Rasipuram   | 2       | 230/110               | 50,000             | 100,000                      |
| Namakkal    | 3       | 110/22                | 10,000             | 20,000                       |
| Ingur       | 2       | 110/22                | 4,000              | 12,000                       |
| Tiruppur    | 2       | 110/22                | 4,000              | 8,000                        |
| Somanur     | 2       | 110/22                | 4,000              | 8,000                        |
| Puliampatti | 1       | 66/33                 | 4,000              | 8,000                        |
|             | 1       | 66/33                 | 5,000              | 14,500                       |
|             | 1       | 66/11                 | 3,000              |                              |
|             | 1       | 66/11                 | 5,000              |                              |
|             | 2       | 66/11                 | 1,500              |                              |
|             | 2       | 66/11                 | 5,000              | 14,000                       |
|             | 2       | 66/11                 | 2,000              |                              |
|             | 2       | 66/33                 | 5,000              |                              |
|             | 2       | 66/11                 | 5,000              | 20,000                       |
|             | 1       | 66/33                 | 3,000              |                              |
|             | 1       | 66/33                 | 1,500              |                              |
|             | 2       | 66/11                 | 2,000              | 8,500                        |
| Total       |         |                       |                    | 285,000                      |

## (c) HIGH TENSION SUB-STATIONS.

| Name.        | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|--------------|---------|-----------------------|--------------------|------------------------------|
| Palayakottai | 2       | 33/11                 | 500                | 1,000                        |
| Karadibavi   | 2       | 33/11                 | 1,500              | 3,000                        |
| Avanashi     | 2       | 33/11                 | 2,000              | 4,000                        |
| Karimangalam | 2       | 33/11                 | 1,000              | 2,000                        |
| Harur        | 2       | 33/11                 | 500                | 1,000                        |
| Hosur        | 2       | 33/11                 | 500                | 1,000                        |
| Palacode     | 1       | 33/11                 | 500                | 1,000                        |
|              |         |                       | 250                | 250                          |
| Total        |         |                       |                    | 12,250                       |

## 4. PAPANASAM POWER HOUSE.

| Name.                 | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|-----------------------|---------|-----------------------|--------------------|------------------------------|
| Papanasam Power House | 4       | 11/66                 | 7,250              | 29,000                       |
|                       | 1       | 11/11-22              | 2,000              | 2,000                        |
|                       | 1       | 11                    | 5,000              | 5,000                        |
| Total                 |         |                       |                    | 36,000                       |

\* Energised during 1961-62.

## APPENDIX L—cont.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS—cont.

## 5. MADURAI ELECTRICITY SYSTEM.

## (a) EXTRA HIGH TENSION SUB-STATIONS.

| Name.                  | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|------------------------|---------|-----------------------|--------------------|------------------------------|
| Vickramasingapuram *   | 3       | 66/22-11              | 3,000              | 9,000                        |
| Pasumalai              | 2       | 110/66                | 25,000             | 50,000                       |
|                        | 3       | 66/33-11              | 5,000              | 15,000                       |
|                        | 1       | 66/33/11              | 250                | 250                          |
| Arasaradi *            | 2       | 110/11                | 10,000             | 20,000                       |
| Theni                  | 2       | 110/22                | 5,000              | 10,000                       |
| Anuppanadi             | 1       | 66/11                 | 5,000              | 5,000                        |
| Thirumangalam          | 3       | 66/11                 | 1,250              | 3,750                        |
| Virudhunagar           | 2       | 66/33-11              | 5,000              | 10,000                       |
| Rajapalayam            | 3       | 66/33/11              | 5,000              | 15,000                       |
| Sattur                 | 2       | 66/11                 | 1,000              | 2,000                        |
| Kallupatti             | 2       | 66/11                 | 1,000              | 2,000                        |
| Karaikudi              | 2       | 66/22                 | 1,750              | 3,500                        |
| Sivaganga              | 2       | 66/22                 | 3,000              | 6,000                        |
|                        | 1       | 66/11                 | 1,250              | 1,250                        |
| Thulukkupatti          | 2       | 66/11                 | 3,000              | 6,000                        |
| A. Thorkur *           | 2       | 66/11                 | 500                | 1,000                        |
| Natham *               | 2       | 66/11                 | 500                | 1,000                        |
| Valayapatti (Kunnur) * | 1       | 66/11                 | 1,500              | 1,500                        |
| Total                  |         |                       |                    | 1,62,250                     |

## (b) HIGH TENSION SUB-STATIONS.

| Name.                   | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|-------------------------|---------|-----------------------|--------------------|------------------------------|
| Pasumalai               | 1       | 33/11                 | 12,500             | 12,500                       |
|                         | 1       | 33/11                 | 5,000              | 5,000                        |
| Samayanallur            | 2       | 33/11                 | 2,000              | 4,000                        |
| Paramakudi              | 2       | 22/11                 | 300                | 600                          |
| G. N. Patti             | 3       | 33/11                 | 500                | 1,500                        |
| Sivakasi (Satchiapuram) | 2       | 33/11                 | 1,000              | 2,000                        |
| Pudur                   | 2       | 33/11                 | 1,750              | 3,500                        |
|                         | 1       | 33/11                 | 2,000              | 2,000                        |
| Aruppukottai            | 1       | 33/11                 | 1,000              | 1,000                        |
| Ramanathapuram          | 1       | 22/11                 | 500                | 500                          |
|                         | 1       | 22/6-6/3-3            | 500                | 500                          |
| Mandapam *              | 1       | 22/11                 | 500                | 500                          |
| Thiruvadanai            | 1       | 22/33                 | 250                | 250                          |
| Aravayal                | 1       | 22/3-3                | 500                | 500                          |
| Total                   |         |                       |                    | 34,350                       |

## 6. PERIYAR POWER HOUSE.

| Name.               | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|---------------------|---------|-----------------------|--------------------|------------------------------|
| Periyar Power House | 9       | 11/110                | 14,000             | 126,000                      |

## 7. KUNDAH HYDRO-ELECTRIC SCHEME.

| Name.                 | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|-----------------------|---------|-----------------------|--------------------|------------------------------|
| Canada Power House I  | 6       | 11/110                | 8,000              | 48,000                       |
| Canada Power House II | 4       | 11/110                | 42,000             | 168,000                      |
|                       | 3       | 110/230               | 50,000             | 150,000                      |
| Total                 |         |                       |                    | 3,86,000                     |

\* Energised during 1961-62.

## APPENDIX L—cont.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS—cont.

## 8. VELLORE ELECTRICITY SYSTEM.

## (a) EXTRA HIGH TENSION SUB-STATIONS.

| Name.                | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|----------------------|---------|-----------------------|--------------------|------------------------------|
| Singarapet .. ..     | 4       | 110/66 .. ..          | 6,000              | 24,000                       |
|                      | 1       | 110/66 .. ..          | 12,000             | 12,000                       |
|                      | 3       | 66/33-11 .. ..        | 1,250              | 3,750                        |
| Kanchee .. ..        | 3       | 110/33 .. ..          | 7,500              | 22,500                       |
|                      | 3       | 33/11 .. ..           | 2,000              | 6,000                        |
| Acharapakkam .. ..   | 2       | 110/33 .. ..          | 7,500              | 15,000                       |
|                      | 2       | 33/11 .. ..           | 1,000              | 2,000                        |
| Tirupattur .. ..     | 1       | 66/33 .. ..           | 1,250              | 1,250                        |
|                      | 3       | 66/33/11 .. ..        | 1,250              | 3,750                        |
| Ambur .. ..          | 3       | 66/33/11 .. ..        | 1,500              | 4,500                        |
| Vadakathipatty .. .. | 2       | 66/33/11 .. ..        | 4,000              | 8,000                        |
|                      | 1       | 66/33/11 .. ..        | 2,000              | 2,000                        |
| Vellore .. ..        | 2       | 66/33 .. ..           | 2,000              | 4,000                        |
|                      | 2       | 66/33-11 .. ..        | 2,000              | 4,000                        |
| Arni .. ..           | 1       | 66/33 .. ..           | 2,500              | 2,500                        |
|                      | 2       | 66/33-11 .. ..        | 2,500              | 5,000                        |
| Tiruvannamalai .. .. | 2       | 66/33 .. ..           | 1,000              | 2,000                        |
|                      | 3       | 66/33-11 .. ..        | 2,000              | 6,000                        |
| Vettavalam .. ..     | 2       | 66/22 .. ..           | 1,250              | 2,500                        |
| Polur .. ..          | 3       | 66/33-11 .. ..        | 750                | 2,250                        |
|                      | 1       | 66/33/11 .. ..        | 1,250              | 1,250                        |
| Kannamangalam .. ..  | 2       | 66/33/11 .. ..        | 750                | 1,500                        |
| Total ..             |         |                       |                    | 135,750                      |

## (b) HIGH TENSION SUB-STATIONS.

|                        |   |             |       |        |
|------------------------|---|-------------|-------|--------|
| Ranipet .. ..          | 2 | 33/11 .. .. | 3,000 | 6,000  |
| Melvenkatapuram .. ..  | 2 | 33/11 .. .. | 500   | 1,000  |
| Arkonam .. ..          | 3 | 33/11 .. .. | 2,000 | 6,000  |
| Kaveripauk .. ..       | 3 | 33/11 .. .. | 2,000 | 6,000  |
| Pallur .. ..           | 2 | 33/11 .. .. | 3,000 | 6,000  |
| Wandiwash .. ..        | 1 | 33/11 .. .. | 2,000 | 2,000  |
| Mambakkam .. ..        | 2 | 33/11 .. .. | 2,000 | 4,000  |
| Chengam .. ..          | 2 | 33/11 .. .. | 2,000 | 4,000  |
| Avalurpet .. ..        | 2 | 33/11 .. .. | 1,000 | 2,000  |
| Tindivanam .. ..       | 2 | 33/11 .. .. | 1,500 | 3,000  |
| Chingleput .. ..       | 2 | 33/11 .. .. | 2,000 | 4,000  |
| Thirukalikundram .. .. | 2 | 33/11 .. .. | 1,000 | 2,000  |
| Walajabad .. ..        | 2 | 33/11 .. .. | 2,000 | 4,000  |
| Madurantakam .. ..     | 3 | 33/11 .. .. | 1,000 | 3,000  |
| Perunagar .. ..        | 2 | 33/11 .. .. | 2,000 | 4,000  |
| Nugumbal .. ..         | 1 | 33/11 .. .. | 2,000 | 2,000  |
| Chetpet .. ..          | 2 | 33/11 .. .. | 500   | 1,000  |
| Uthangarai .. ..       | 1 | 33/11 .. .. | 250   | 250    |
| Kalavai .. ..          | 2 | 33/11 .. .. | 1,000 | 2,000  |
| Gingee * .. ..         | 2 | 33/11 .. .. | 500   | 1,000  |
| Total ..               |   |             |       | 63,250 |

\* Reenergised during 1961-62.

## APPENDIX L—cont.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS—cont.

## 9. TIRUCHIRAPPALLI ELECTRICITY SYSTEM.

## (a) EXTRA HIGH TENSION SUB-STATIONS.

| Name.                 | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|-----------------------|---------|-----------------------|--------------------|------------------------------|
| Tiruchirappalli .. .. | 3       | 110/66 .. ..          | 12,000             | 36,000                       |
|                       | 3       | 66/22-11 .. ..        | 5,000              | 15,000                       |
|                       | 1       | 66/22/11 .. ..        | 2,000              | 2,000                        |
| Thanjavur .. ..       | 3       | 66-33/11 .. ..        | 1,000              | 3,000                        |
|                       | 1       | 66/33-22 .. ..        | 1,750              | 1,750                        |
| Kumbakonam .. ..      | 2       | 66/22-11 .. ..        | 2,500              | 5,000                        |
| Mayavaram .. ..       | 2       | 66/33-22 .. ..        | 1,750              | 3,500                        |
|                       | 2       | 66/33-11 .. ..        | 1,500              | 3,000                        |
| Thiruvavur .. ..      | 2       | 66/11 .. ..           | 2,500              | 5,000                        |
| Nagapattinam .. ..    | 2       | 66/11 .. ..           | 2,500              | 5,000                        |
| Pudukkottai .. ..     | 2       | 66-33/22-11 .. ..     | 1,750              | 3,500                        |
| Pattukottai .. ..     | 2       | 66/33/22-11 .. ..     | 1,000              | 2,000                        |
| Dalmia .. ..          | 3       | 66/22-11 .. ..        | 2,500              | 7,500                        |
|                       | 1       | 66/22-11 .. ..        | 2,000              | 2,000                        |
| Kodumudi * .. ..      | 1       | 66-22/11 .. ..        | 2,000              | 2,000                        |
| Karur .. ..           | 3       | 66/11 .. ..           | 2,000              | 6,000                        |
| Pallapatti .. ..      | 2       | 66/11 .. ..           | 1,000              | 2,000                        |
| Sembatti .. ..        | 3       | 66/22 .. ..           | 1,750              | 5,250                        |
|                       | 1       | 110/66 .. ..          | 6,000              | 6,000                        |
| Villupuram .. ..      | 2       | 110/66 .. ..          | 12,000             | 24,000                       |
|                       | 2       | 110/22/11 .. ..       | 10,000             | 20,000                       |
| Neyveli .. ..         | 3       | 110/33 .. ..          | 10,000             | 30,000                       |
| Pondy .. ..           | 2       | 66/22-11 .. ..        | 5,000              | 10,000                       |
| Total ..              |         |                       |                    | 199,500                      |

## (b) HIGH TENSION SUB-STATIONS.

|                      |   |             |       |        |
|----------------------|---|-------------|-------|--------|
| Chidambaram .. ..    | 2 | 33/11 .. .. | 1,000 | 2,000  |
| Neyveli .. ..        | 4 | 33/11 .. .. | 500   | 2,000  |
| Kurinjipadi .. ..    | 2 | 33/11 .. .. | 1,000 | 2,000  |
| Poolampatti .. ..    | 1 | 22/11 .. .. | 500   | 500    |
|                      | 1 | 22/11 .. .. | 250   | 250    |
| Vridhachalam * .. .. | 2 | 33/11 .. .. | 2,000 | 4,000  |
| Total ..             |   |             |       | 10,750 |

## 10. TIRUNELVELI ELECTRICITY SYSTEM.

## (a) EXTRA HIGH TENSION SUB-STATIONS.

| Name.               | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|---------------------|---------|-----------------------|--------------------|------------------------------|
| Kayathar .. ..      | 3       | 110/66 .. ..          | 6,000              | 18,000                       |
|                     | 3       | 66/11 .. ..           | 750                | 2,250                        |
| Melakallur .. ..    | 2       | 63/33-11 .. ..        | 3,000              | 6,000                        |
|                     | 1       | 63/33-11 .. ..        | 1,000              | 1,000                        |
| Thuckalay .. ..     | 2       | 66/33-11 .. ..        | 1,250              | 2,500                        |
| Nagercoil .. ..     | 2       | 66/33 .. ..           | 2,000              | 4,000                        |
| Talaiyuthu .. ..    | 3       | 66/33-11 .. ..        | 10,000             | 30,000                       |
|                     | 1       | 66/33-11 .. ..        | 5,000              | 5,000                        |
| Tuticorin .. ..     | 3       | 66/22-11 .. ..        | 3,000              | 9,000                        |
| Tenkasi .. ..       | 3       | 66/33-11 .. ..        | 1,000              | 3,000                        |
| Shencottah .. ..    | 2       | 66/33-11 .. ..        | 500                | 1,000                        |
| Koilpatti .. ..     | 3       | 66/33-11 .. ..        | 2,000              | 6,000                        |
| Eppoduvendran .. .. | 2       | 66/33-11 .. ..        | 500                | 1,000                        |
| Sankarankoil .. ..  | 3       | 66/33-11 .. ..        | 1,000              | 3,000                        |
| Total ..            |         |                       |                    | 91,750                       |

\* Reenergised during 1961-62.

## APPENDIX L—cont.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS—cont.

## 10. TIRUNELVELI ELECTRICITY SYSTEM—cont.

## (b) HIGH TENSION SUB-STATIONS.

| Name.              | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|--------------------|---------|-----------------------|--------------------|------------------------------|
| Srivaikuntam .. .. | 3       | 33/11 .. ..           | 750                | 2,250                        |
| Sattankulam .. ..  | 2       | 33/11 .. ..           | 1,000              | 2,000                        |
| Kalakad .. ..      | 2       | 33/11 .. ..           | 500                | 1,000                        |
| Panagudi .. ..     | 2       | 33/11 .. ..           | 1,000              | 2,000                        |
| Total ..           |         |                       |                    | 7,250                        |

## 11. MADRAS ELECTRICITY SYSTEM.

## (a) INSTALLED CAPACITIES OF THE TRANSFORMER IN POWER HOUSE.

|                           |   |             |        |        |
|---------------------------|---|-------------|--------|--------|
| Basin Bridge Power House. | 4 | 11/33 .. .. | 10,000 | 40,000 |
|                           | 2 | 11/5 .. ..  | 7,500  | 15,000 |
| Total ..                  |   |             |        | 55,000 |

## (b) EXTRA HIGH TENSION SUB-STATIONS.

|                   |   |                  |        |         |
|-------------------|---|------------------|--------|---------|
| Korattur .. ..    | 2 | 230/119/11 .. .. | 50,000 | 100,000 |
|                   | 3 | 110/33 .. ..     | 25,000 | 75,000  |
| Tiruvellore .. .. | 3 | 110/33-11 .. ..  | 10,000 | 30,000  |
| Ennore * .. ..    | 3 | 110/33-11 .. ..  | 10,000 | 30,000  |
| Total ..          |   |                  |        | 235,000 |

## (c) HIGH TENSION SUB-STATIONS.

|                                     |   |               |       |         |
|-------------------------------------|---|---------------|-------|---------|
| Adayar .. ..                        | 3 | 33/11 .. ..   | 1,500 | 4,500   |
|                                     | 1 | 33/11-5 .. .. | 1,500 | 1,500   |
| Avadi .. ..                         | 2 | 33/11 .. ..   | 5,000 | 10,000  |
| Buckingham and Carnatic Mills. * .. | 3 | 33/11 .. ..   | 3,000 | 9,000   |
| Chromepet .. ..                     | 1 | 33/11 .. ..   | 500   | 500     |
| Ennore .. ..                        | 1 | 33/11 .. ..   | 5,000 | 5,000   |
| Guduvancheri .. ..                  | 2 | 33/11 .. ..   | 500   | 1,000   |
|                                     | 1 | 33/11 .. ..   | 500   | 1,000   |
| Gummidiipundi .. ..                 | 2 | 33/11 .. ..   | 500   | 1,000   |
| Integral Coach Factory * ..         | 2 | 33/11 .. ..   | 5,000 | 10,000  |
|                                     | 1 | 33/11-5 .. .. | 5,000 | 5,000   |
| Kadambathur .. ..                   | 2 | 33/11 .. ..   | 3,000 | 6,000   |
| Kilaur .. ..                        | 2 | 33/11 .. ..   | 2,000 | 4,000   |
| Kilpauk .. ..                       | 1 | 33/11 .. ..   | 3,000 | 3,000   |
|                                     | 1 | 33/11/5 .. .. | 5,000 | 5,000   |
|                                     | 2 | 33/5 .. ..    | 1,000 | 2,000   |
| Kodambakkam .. ..                   | 2 | 33/11 .. ..   | 3,000 | 6,000   |
| Korattur .. ..                      | 2 | 33/11 .. ..   | 5,000 | 10,000  |
| Meenambakkam .. ..                  | 1 | 33/11 .. ..   | 250   | 250     |
| Mount Road .. ..                    | 1 | 33/11 .. ..   | 5,000 | 5,000   |
|                                     | 1 | 33/11-5 .. .. | 5,000 | 5,000   |
|                                     | 1 | 33/11-5 .. .. | 3,000 | 3,000   |
| Pallavaram .. ..                    | 2 | 33/11 .. ..   | 2,000 | 4,000   |
|                                     | 2 | 33/11 .. ..   | 200   | 400     |
| Ponneri .. ..                       | 2 | 33/11 .. ..   | 2,000 | 4,000   |
| Poonamallee .. ..                   | 2 | 33/11 .. ..   | 3,000 | 6,000   |
| Porur .. ..                         | 2 | 33/11 .. ..   | 1,000 | 2,000   |
| Sembium .. ..                       | 2 | 33/11 .. ..   | 3,000 | 6,000   |
| Sethuperumbedu .. ..                | 2 | 33/11 .. ..   | 500   | 1,000   |
| St. Thomas Mount.. ..               | 2 | 33/11 .. ..   | 5,000 | 10,000  |
|                                     | 2 | 33/5 .. ..    | 300   | 600     |
| Sunkuvarohatram .. ..               | 2 | 33/11 .. ..   | 500   | 1,000   |
| Tambaram (Old) .. ..                | 1 | 33/5 .. ..    | 500   | 500     |
|                                     | 1 | 33/11 .. ..   | 100   | 100     |
| Tambaram (Kadapperi) .. ..          | 2 | 33/11 .. ..   | 1,500 | 3,000   |
| Tondiarpet .. ..                    | 2 | 33/11 .. ..   | 5,000 | 10,000  |
|                                     | 2 | 33/11 .. ..   | 3,000 | 6,000   |
| Tiruvellore .. ..                   | 3 | 33/11 .. ..   | 500   | 1,500   |
| Tirunelveli .. ..                   | 2 | 33/11 .. ..   | 1,000 | 2,000   |
| Uthukottai .. ..                    | 2 | 33/11 .. ..   | 2,000 | 4,000   |
| Total ..                            |   |               |       | 154,850 |

\* Energised during 1961-62.

## APPENDIX L—cont.

## GENERATING STATIONS, SUB-STATIONS AND DISTRIBUTION TRANSFORMERS—cont.

## MADRAS ELECTRICITY SYSTEM—cont.

## (d) ROTARY SUB-STATIONS.

| Name.                 | Number of rotaries. | Capacity in K.W. | Aggregate capacity in K.W. |
|-----------------------|---------------------|------------------|----------------------------|
| Mount Road .. ..      | 1                   | 1,000            | 1,000                      |
|                       | 3                   | 500              | 1,500                      |
|                       | 2                   | 250              | 500                        |
| Egmore .. ..          | 3                   | 500              | 1,500                      |
|                       | 2                   | 250              | 500                        |
|                       | 2                   | 250              | 500                        |
| West Georgetown .. .. | 2                   | 1,000            | 2,000                      |
|                       | 1                   | 500              | 500                        |
|                       | 1                   | 250              | 250                        |
|                       | 1 *                 | 250              | 250                        |
| East Georgetown .. .. | 2                   | 1,000            | 2,000                      |
|                       | 2                   | 500              | 1,000                      |
|                       | 1                   | 250              | 250                        |
| Mylapore .. ..        | 4                   | 250              | 1,000                      |
|                       | 1 *                 | 250              | 250                        |
| Chetput .. ..         | 2                   | 250              | 500                        |
|                       | 1 *                 | 250              | 250                        |
| Total ..              |                     |                  | 13,750                     |

\* Rectifier bank.

## (e) RECTIFIER SUB-STATIONS.

|                    |   |     |       |
|--------------------|---|-----|-------|
| Moore Market .. .. | 3 | 250 | 750   |
| Bells Road .. ..   | 3 | 250 | 750   |
| Nungambakkam .. .. | 2 | 250 | 500   |
| Total ..           |   |     | 2,000 |

## (f) AUTO TRANSFORMERS.

| Name.                      | Number. | Voltage ratio in K.V. | Capacity in K.V.A. | Aggregate capacity in K.V.A. |
|----------------------------|---------|-----------------------|--------------------|------------------------------|
| Public Works Department .. | 1       | 11/5 .. ..            | 1,500              | 1,500                        |
| East George town .. ..     | 1       | 11/5 .. ..            | 1,500              | 1,500                        |
| West George town .. ..     | 1       | 11/5 .. ..            | 1,500              | 1,500                        |
| Chetput .. ..              | 1       | 11/5 .. ..            | 1,500              | 1,500                        |
| Total ..                   |         |                       |                    | 6,000                        |

## (12) MADURAI THERMAL STATION.

|                             |   |              |        |        |
|-----------------------------|---|--------------|--------|--------|
| Samayanallur Power Station. | 2 | 33/11 .. ..  | 2,000  | 4,000  |
|                             | 1 | 11/33 .. ..  | 12,500 | 12,500 |
|                             | 1 | 6.6/33 .. .. | 5,000  | 5,000  |
| Total ..                    |   |              |        | 21,500 |

## (13) RAMESWARAM DIESEL STATION.

| Name.                    | Number. | Voltage.    | Capacity. | Aggregate capacity in K.W. |
|--------------------------|---------|-------------|-----------|----------------------------|
| Rameswaram .. ..         | 2       | 420 V .. .. | 224       | 448                        |
| Devasthanam Power House. | 1       | 420 V .. .. | 56        | 56                         |
|                          | 1       | 420 V .. .. | 64        | 64                         |
| Total ..                 |         |             |           | 568                        |

\* Energised during 1961-62.

## APPENDIX M.

## CONSUMERS AND CONNECTED LOAD AS ON 31ST MARCH 1962.

## Abstract.

| Category.                            | High Tension.        |                        | Low Tension.         |                        | Total H.T. and L.T.        |                        |
|--------------------------------------|----------------------|------------------------|----------------------|------------------------|----------------------------|------------------------|
|                                      | Number of consumers. | Connected load in K.W. | Number of consumers. | Connected load in K.W. | Total number of consumers. | Connected load in K.W. |
|                                      | (1)                  | (2)                    | (3)                  | (4)                    | (5)                        | (6)                    |
| Textile .. ..                        | 155                  | 1,27,925.976           | 379                  | 830.000                | 534                        | 1,28,755.976           |
| Cement .. ..                         | 5                    | 32,569.290             | ..                   | ..                     | 5                          | 32,569.290             |
| Oil .. ..                            | 25                   | 46,68.687              | 150                  | 2,161.861              | 175                        | 6880.548               |
| Cordite Factory ..                   | 1                    | 1,744.520              | ..                   | ..                     | 1                          | 1,744.520              |
| Tea Estates ..                       | 67                   | 10,096.034             | ..                   | ..                     | 67                         | 10,096.034             |
| Municipality ..                      | 5                    | 35,004.262             | 217                  | 22,140.000             | 222                        | 57,144.262             |
| Miscellaneous ..                     | 49                   | 18,069.035             | 1,319                | 6,191.140              | 1,368                      | 24,250.175             |
| Sugar .. ..                          | 8                    | 3,011.152              | ..                   | ..                     | 8                          | 3,011.152              |
| Water Works ..                       | 13                   | 3,481.252              | 223                  | 1,126.798              | 236                        | 4,608.050              |
| Agriculture ..                       | 4                    | 362.690                | 1,34,231             | 4,91,441.013           | 1,34,235                   | 4,91,803.703           |
| Railway and Trac-<br>tion.           | 15                   | 58,621.405             | 60                   | 678.741                | 75                         | 59,300.146             |
| Government<br>Departments.           | 48                   | 57,570.497             | 1,368                | 1820.305               | 1,416                      | 59,390.802             |
| Commercial ..                        | 11                   | 2,245.960              | 67,203               | 71,058.175             | 67,214                     | 73,304.135             |
| Mines .. ..                          | 1                    | 109.000                | ..                   | ..                     | 1                          | 109.000                |
| Metal .. ..                          | 2                    | 678.000                | 1                    | 7.000                  | 3                          | 685.000                |
| Chemical .. ..                       | 6                    | 22,804.070             | ..                   | ..                     | 6                          | 22,804.070             |
| Other licensees<br>and other States. | 30                   | 1,62,189.973           | 1                    | 680.000                | 31                         | 1,62,869.973           |
| Industrial ..                        | 183                  | 67,837.645             | 17,563               | 1,36,799.014           | 17,746                     | 2,04,636.659           |
| Others .. ..                         | ..                   | ..                     | 193                  | 520.000                | 193                        | 520.000                |
| Street lights ..                     | 1                    | 821.000                | 9,951                | 6,088.810              | 9,952                      | 6,906.810              |
| Domestic .. ..                       | ..                   | ..                     | 4,21,912             | 2,23,815.419           | 4,21,912                   | 2,23,815.419           |
| Cinema .. ..                         | ..                   | ..                     | 69                   | 496.506                | 69                         | 496.506                |
| Total for the<br>Board.              | 629                  | 6,01,810.448           | 6,54,840             | 9,65,841.782           | 6,55,469                   | 15,75,652.230          |
| Licensees ..                         | 60                   | ..                     | 1,63,591             | ..                     | 1,63,651                   | ..                     |
| Municipality ..                      | 39                   | ..                     | 60,607               | ..                     | 60,646                     | ..                     |
| Grand total ..                       | 728                  | 6,09,810.448           | 8,79,038             | 9,65,841.782           | 8,79,766                   | 15,75,652.230          |

## APPENDIX M—cont.

NUMBER OF CONSUMERS AND CONNECTED LOAD STATEMENT  
AS ON 31ST MARCH 1962—cont.

| Description of load.                  | Electricity Board.   |                        | Municipalities.      |                        |
|---------------------------------------|----------------------|------------------------|----------------------|------------------------|
|                                       | Number of consumers. | Connected load in K.W. | Number of consumers. | Connected load in K.W. |
|                                       | (2)                  | (3)                    | (4)                  | (5)                    |
| 1. PYKARA ELECTRICITY SYSTEM.         |                      |                        |                      |                        |
| I. High Tension—                      |                      |                        |                      |                        |
| 1 Textiles .. ..                      | 73                   | 69,939.160             | ..                   | ..                     |
| 2 Cement .. ..                        | 1                    | 8,308.600              | ..                   | ..                     |
| 3 Oil industries ..                   | 4                    | 764.630                | ..                   | ..                     |
| 4 Cordite Factory ..                  | 1                    | 1,744.520              | ..                   | ..                     |
| 5 Tea Estates ..                      | 65                   | 9,804.034              | ..                   | ..                     |
| 6 Kerala State ..                     | 2                    | ..                     | ..                   | ..                     |
| 7 Municipalities ..                   | 2                    | 23,072.102             | ..                   | ..                     |
| 8 Miscellaneous (other industries) .. | 27                   | 1,0851.160             | 11                   | 1,266.179              |
| 9 Sugar Industries ..                 | 3                    | 459.380                | ..                   | ..                     |
| 10 Water Works ..                     | 4                    | 612.812                | ..                   | ..                     |
| 11 Government Departments ..          | 26                   | 10,985.050             | ..                   | ..                     |
| 12 Agricultural ..                    | 1                    | 87.140                 | ..                   | ..                     |
| 13 Commercial and Non-Industrial ..   | 8                    | 1,749.050              | ..                   | ..                     |
| 14 Railways .. ..                     | 1                    | 924.000                | 1                    | 61.100                 |
| Total ..                              | 218                  | 1,39,301.638           | 12                   | 1,327.279              |
| II. Low Tension—                      |                      |                        |                      |                        |
| 1 Industrial .. ..                    | 2,707                | 17,377.126             | 922                  | 5,878.303              |
| 2 Agriculture .. ..                   | 21,793               | 89,638.864             | 182                  | 830.403                |
| 3 Domestic light and power .. ..      | 47,126               | 19,578.767             | 20,277               | 14,454.744             |
| 4 Commercial light and power ..       | 11,266               | 23,680.448             | ..                   | ..                     |
| 5 Street lighting .. ..               | 337                  | 637.542                | 13                   | 383.550                |
| 6 Water Works .. ..                   | 10                   | 4.320                  | 3                    | 45.000                 |
| 7 Miscellaneous .. ..                 | ..                   | ..                     | 18                   | 124.105                |
| 8 Railways .. ..                      | 8                    | 81.383                 | 5                    | 28.718                 |
| 9 Government Department .. ..         | 643                  | 915.040                | ..                   | ..                     |
| L.T. Total ..                         | 83,890               | 1,51,913.490           | 21,420               | 21,744.823             |
| H.T. Total ..                         | 218                  | 1,39,301.638           | 12                   | 1,327.279              |
| Grand Total ..                        | 84,108               | 2,01,215.128           | 21,432               | 23,072.102             |
| 1-A. KUNDHA HYDRO ELECTRIC SCHEME.    |                      |                        |                      |                        |
| Domestic and Lighting (Low Tension).  | 92                   | 2,774.720              | ..                   | ..                     |
| 2. METTUR ELECTRICITY SYSTEM.         |                      |                        |                      |                        |
| I High Tension—                       |                      |                        |                      |                        |
| 1 Water Works .. ..                   | 2                    | 796                    | ..                   | ..                     |
| 2 Textiles .. ..                      | 25                   | 12,886                 | 3                    | 3,541.525              |
| 3 Oil Pressing .. ..                  | 3                    | 732                    | ..                   | ..                     |
| 4 Other Government Departments ..     | 3                    | 1,018                  | ..                   | ..                     |
| 5 Mines .. ..                         | 1                    | 109                    | ..                   | ..                     |
| 6 Metal .. ..                         | 1                    | 538                    | ..                   | ..                     |
| 7 Chemicals .. ..                     | 1                    | 7,325                  | ..                   | ..                     |
| 8 Licensees .. ..                     | 6                    | 31,915                 | ..                   | ..                     |
| 9 Railways .. ..                      | 1                    | 650                    | 1                    | 63.810                 |
| 10 Industrial .. ..                   | ..                   | ..                     | 13                   | 2,589.887              |
| Total ..                              | 43                   | 55,969                 | 17                   | 6,195.223              |

## APPENDIX M—cont.

NUMBER OF CONSUMERS AND CONNECTED LOAD STATEMENT  
AS ON 31ST MARCH 1962—cont.

| Description of load.                    | Electricity Board.   |                        | Licensees.           |                        |
|-----------------------------------------|----------------------|------------------------|----------------------|------------------------|
|                                         | Number of consumers. | Connected load in K.W. | Number of consumers. | Connected load in K.W. |
| (1)                                     | (2)                  | (3)                    | (4)                  | (5)                    |
| 2. METTUR ELECTRICITY SYSTEM—cont.      |                      |                        |                      |                        |
| II. Low Tension—                        |                      |                        |                      |                        |
| 1 Industrial .. .. .                    | 2,796                | 18,604.75              | 870                  | 9,023.445              |
| 2 Agricultural .. .. .                  | 33,551               | 1,25,108.48            | 871                  | 3,743.185              |
| 3 Domestic .. .. .                      | 44,291               | 18,051.00              | 20,534               | 9,472.212              |
| 4 Commercial .. .. .                    | 6,029                | 3,952.00               | 4,118                | 2,859.519              |
| 5 Street lighting .. .. .               | 664                  | 719.00                 | 19                   | 351.860                |
| 6 Miscellaneous .. .. .                 | 152                  | 201.58                 | ..                   | ..                     |
| 7 Water Works .. .. .                   | 71                   | 496.00                 | 2                    | 9.450                  |
| 8 Textiles .. .. .                      | 351                  | 625.00                 | ..                   | ..                     |
| 9 Oil Pressing .. .. .                  | 82                   | 1,419.00               | ..                   | ..                     |
| 10 Other Government Departments .. .. . | 138                  | 371.00                 | ..                   | ..                     |
| 11 Metal .. .. .                        | 1                    | 7.00                   | ..                   | ..                     |
| 12 Cinemas .. .. .                      | 32                   | 239.00                 | 17                   | 237.420                |
| 13 Municipalities .. .. .               | 202                  | 205.00                 | ..                   | ..                     |
| 14 Others .. .. .                       | 193                  | 520.00                 | ..                   | ..                     |
| 15 Railways .. .. .                     | ..                   | ..                     | 6                    | 22.765                 |
| L.T. Total .. .. .                      | 88,553               | 1,70,518.81            | 26,435               | 25,719.847             |
| H.T. Total .. .. .                      | 43                   | 55,969.00              | 17                   | 6,195.223              |
| Grand Total .. .. .                     | 88,596               | 2,26,487.81            | 26,452               | 31,915.069             |

| Description of load.                 | Electricity Board.   |                        | Municipality.        |                        | 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)                    |
| 3. MADURAI ELECTRICITY SYSTEM.       |                      |                        |                      |                        |                      |                        |
| I. High Tension—                     |                      |                        |                      |                        |                      |                        |
| Industrial .. .. .                   | 3                    | 959                    | 4                    | 1,175.921              | ..                   | ..                     |
| Commercial .. .. .                   | 1                    | 281                    | 2                    | 302.359                | ..                   | ..                     |
| Miscellaneous .. .. .                | 12                   | 4,101                  | 4                    | 738.189                | ..                   | ..                     |
| Water Works .. .. .                  | 2                    | 111                    | 1                    | 264.852                | 1                    | 8                      |
| Textiles .. .. .                     | 28                   | 22,873                 | 5                    | 430.600                | ..                   | ..                     |
| Cement .. .. .                       | 1                    | 2,481                  | ..                   | ..                     | ..                   | ..                     |
| Oil Pressing .. .. .                 | 6                    | 544                    | ..                   | ..                     | ..                   | ..                     |
| Other Government Departments .. .. . | 5                    | 991                    | 5                    | 950.108                | ..                   | ..                     |
| Metal .. .. .                        | 1                    | 140                    | ..                   | ..                     | ..                   | ..                     |
| Municipal .. .. .                    | 1                    | 4,255                  | ..                   | ..                     | ..                   | ..                     |
| Licensees .. .. .                    | 1                    | 8                      | ..                   | ..                     | ..                   | ..                     |
| Domestic .. .. .                     | ..                   | ..                     | 3                    | 260.476                | ..                   | ..                     |
| Tea Estates .. .. .                  | 2                    | 292                    | ..                   | ..                     | ..                   | ..                     |
| Cinema .. .. .                       | ..                   | ..                     | 2                    | 132.500                | ..                   | ..                     |
| Total .. .. .                        | 63                   | 37,026                 | 26                   | 4,255.005              | 1                    | 8                      |

## APPENDIX M—cont.

NUMBER OF CONSUMERS AND CONNECTED LOAD STATEMENT  
AS ON 31ST MARCH 1962—cont.

| Description of load.                 | Electricity Board.   |                        | Municipality.        |                        | 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)                    |
| 3. MADURAI ELECTRICITY SYSTEM—cont.  |                      |                        |                      |                        |                      |                        |
| II. Low Tension—                     |                      |                        |                      |                        |                      |                        |
| Industrial .. .. .                   | 2,464                | 17,268                 | 549                  | 4,044.270              | 20                   | 339                    |
| Agricultural .. .. .                 | 14,152               | 53,646                 | 37                   | 142.000                | ..                   | ..                     |
| Domestic .. .. .                     | 78,569               | 36,975                 | 28,579               | 16,095.667             | 344                  | 181                    |
| Commercial .. .. .                   | 18,711               | 11,466                 | 1                    | 794.745                | 210                  | 137                    |
| Street lights .. .. .                | 4,110                | 2,202                  | ..                   | ..                     | 1                    | 15                     |
| Miscellaneous .. .. .                | 30                   | 130                    | ..                   | ..                     | ..                   | ..                     |
| Licensees .. .. .                    | 1                    | 680                    | ..                   | ..                     | ..                   | ..                     |
| Municipal .. .. .                    | 1                    | 21,930                 | ..                   | ..                     | ..                   | ..                     |
| Textile .. .. .                      | ..                   | ..                     | 20                   | 168.000                | ..                   | ..                     |
| Metal .. .. .                        | ..                   | ..                     | 16                   | 115.000                | ..                   | ..                     |
| Chemical .. .. .                     | ..                   | ..                     | 18                   | 83.000                 | ..                   | ..                     |
| Cinema .. .. .                       | ..                   | ..                     | 12                   | 78.500                 | 1                    | 2                      |
| Water works .. .. .                  | 84                   | 236                    | 47                   | 254.000                | ..                   | ..                     |
| Oil Pressing .. .. .                 | ..                   | ..                     | 12                   | 155.000                | ..                   | ..                     |
| Other Government Departments .. .. . | 243                  | 185                    | ..                   | ..                     | 6                    | 6                      |
| L.T. Total .. .. .                   | 1,19,065             | 1,44,678               | 29,291               | 21,930.183             | 582                  | 680                    |
| H.T. Total .. .. .                   | 63                   | 37,036                 | ..                   | 255.005                | 1                    | 8                      |
| Grand total .. .. .                  | 1,19,128             | 1,81,714               | 29,317               | 22,185.188             | 583                  | 688                    |

| Description of load.                         | Electricity Board.   |                        | Municipality.        |                        | 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)                    |
| 4. MADRAS ELECTRICITY SYSTEM (DISTRIBUTION). |                      |                        |                      |                        |                      |                        |
| I. High Tension—                             |                      |                        |                      |                        |                      |                        |
| Textiles .. .. .                             | ..                   | ..                     | ..                   | ..                     | 3                    | 7,842.326              |
| Oil Industries .. .. .                       | ..                   | ..                     | ..                   | ..                     | 6                    | 2,135.717              |
| Other Industries and Miscellaneous .. .. .   | ..                   | ..                     | ..                   | ..                     | 180                  | 66,878.645             |
| Water Works .. .. .                          | ..                   | ..                     | ..                   | ..                     | 3                    | 1,870.640              |
| Railways (including traction) .. .. .        | ..                   | ..                     | ..                   | ..                     | 8                    | 48,163.600             |
| Street lighting .. .. .                      | ..                   | ..                     | ..                   | ..                     | 1                    | 821.000                |
| Total .. .. .                                | ..                   | ..                     | ..                   | ..                     | 201                  | 127,711.928            |
| II. Low Tension—                             |                      |                        |                      |                        |                      |                        |
| Industrial .. .. .                           | ..                   | ..                     | ..                   | ..                     | 5,090                | 133,229.972            |
| Agricultural .. .. .                         | ..                   | ..                     | ..                   | ..                     | 9,185                | 39,861.988             |
| Domestic .. .. .                             | ..                   | ..                     | ..                   | ..                     | 84,314               | 61,629.963             |
| Commercial .. .. .                           | ..                   | ..                     | ..                   | ..                     | 12,939               | 20,542.748             |
| Miscellaneous .. .. .                        | ..                   | ..                     | ..                   | ..                     | 1,115                | 5,445.660              |
| L.T. Total .. .. .                           | ..                   | ..                     | ..                   | ..                     | 112,643              | 160,710.231            |
| H.T. Total .. .. .                           | ..                   | ..                     | ..                   | ..                     | 201                  | 127,711.928            |
| Grand total .. .. .                          | ..                   | ..                     | ..                   | ..                     | 112,844              | 288,422.159            |

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## APPENDIX M—cont.

NUMBER OF CONSUMERS AND CONNECTED LOAD STATEMENT AS ON  
31ST MARCH 1962—cont.

| Description of load.           | Electricity Board.   |                        | Licensees.           |                        |                      |                        |
|--------------------------------|----------------------|------------------------|----------------------|------------------------|----------------------|------------------------|
|                                | Number of consumers. | Connected load in K.W. | Number of consumers. | Connected load in K.W. |                      |                        |
|                                | (1)                  | (2)                    | (3)                  | (4)                    | (5)                  |                        |
| 5. VELLORE ELECTRICITY SYSTEM. |                      |                        |                      |                        |                      |                        |
| I. High Tension—               |                      |                        |                      |                        |                      |                        |
| Agricultural .. ..             | ..                   | ..                     | 1                    | 65·000                 |                      |                        |
| Traction (Railway) ..          | 2                    | 2,067                  | ..                   | ..                     |                      |                        |
| Miscellaneous .. ..            | ..                   | ..                     | 3                    | 620·000                |                      |                        |
| Water works .. ..              | 1                    | 30                     | 1                    | 106·440                |                      |                        |
| Textiles .. ..                 | 3                    | 1,429                  | ..                   | ..                     |                      |                        |
| Oil Press .. ..                | 2                    | 221                    | ..                   | ..                     |                      |                        |
| Government departments ..      | 2                    | 353                    | ..                   | ..                     |                      |                        |
| Chemical .. ..                 | ..                   | ..                     | 1                    | 1,326·086              |                      |                        |
| Licensees .. ..                | 2                    | ..                     | ..                   | ..                     |                      |                        |
| Other States .. ..             | 3                    | 17,654                 | ..                   | ..                     |                      |                        |
| Other—Sugar .. ..              | 2                    | 338                    | ..                   | ..                     |                      |                        |
| Industrial .. ..               | ..                   | ..                     | 2                    | 185·000                |                      |                        |
| Hospital .. ..                 | 2                    | 396                    | ..                   | ..                     |                      |                        |
| Total .. ..                    | 19                   | 22,488                 | 8                    | 2,302·526              |                      |                        |
| II. Low Tension—               |                      |                        |                      |                        |                      |                        |
| Industrial .. ..               | 1,849                | 24,600·684             | 634                  | 3,773·624              |                      |                        |
| Agricultural .. ..             | 34,807               | 108,742·986            | 1,649                | 4,753·735              |                      |                        |
| Domestic .. ..                 | 52,093               | 23,008·940             | 12,670               | 5,197·801              |                      |                        |
| Commercial .. ..               | 5,627                | 4,010·000              | 35                   | 165·221                |                      |                        |
| Street lighting .. ..          | 3,052                | 1,024·894              | 32                   | 302·025                |                      |                        |
| Traction (Railway) .. ..       | 21                   | 293·000                | ..                   | ..                     |                      |                        |
| Miscellaneous .. ..            | 23                   | 404·000                | ..                   | ..                     |                      |                        |
| Water works .. ..              | 38                   | 281·000                | 33                   | 153·203                |                      |                        |
| Textiles .. ..                 | 28                   | 205·000                | ..                   | ..                     |                      |                        |
| Oil press .. ..                | 68                   | 742·861                | 55                   | 709·979                |                      |                        |
| Government departments ..      | 173                  | 173·000                | 148                  | 234·724                |                      |                        |
| Cinemas .. ..                  | 37                   | 25·506                 | 11                   | 52·389                 |                      |                        |
| Municipalities .. ..           | 14                   | 1·000                  | 4                    | 9·140                  |                      |                        |
| L.T. Total .. ..               | 97,829               | 163,743·871            | 15,271               | 15,351·840             |                      |                        |
| H.T. Total .. ..               | 19                   | 22,488·000             | 8                    | 2,302·526              |                      |                        |
| Grand total .. ..              | 97,848               | 186,236·871            | 15,279               | 17,654·366             |                      |                        |
| 6. TRICHY ELECTRICITY SYSTEM.  |                      |                        |                      |                        |                      |                        |
| Description of load.           | Electricity Board.   |                        | Municipality.        |                        | 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—               |                      |                        |                      |                        |                      |                        |
| Textiles .. ..                 | 14                   | 5,484·590              | ..                   | ..                     | 1                    | 786·000                |
| Metal .. ..                    | ..                   | ..                     | ..                   | ..                     | 1                    | 113·000                |
| Sugar .. ..                    | 3                    | 2,213·772              | ..                   | ..                     | 3                    | 929·000                |
| Oil .. ..                      | 2                    | 138·520                | ..                   | ..                     | 1                    | 537·000                |
| Water works .. ..              | 1                    | 60·800                 | 1                    | 103·939                | 4                    | 453·378                |
| Cement .. ..                   | 1                    | 10,968·000             | ..                   | ..                     | 3                    | 134·000                |
| Government departments ..      | 4                    | 41,374·117             | ..                   | ..                     | 3                    | 262·000                |
| Railways .. ..                 | 3                    | 6,816·805              | ..                   | ..                     | 2                    | 128·000                |
| Licensees .. ..                | 11                   | 88,365·135             | ..                   | ..                     | 2                    | 1,900·000              |
| Others .. ..                   | 5                    | 1,881·785              | ..                   | ..                     | 3                    | 254·000                |
| Steel .. ..                    | ..                   | ..                     | ..                   | ..                     | 1                    | 3,262·080              |
| Municipality .. ..             | 2                    | 7,677·160              | ..                   | ..                     | ..                   | ..                     |
| Educational institutions ..    | 4                    | 1,916·880              | ..                   | ..                     | ..                   | ..                     |
| Total .. ..                    | 50                   | 166,797·564            | 1                    | 103·939                | 24                   | 8,758·458              |

## APPENDIX M—cont.

NUMBER OF CONSUMERS AND CONNECTED LOAD STATEMENT AS ON  
31ST MARCH 1962—cont.

| Description of load.               | Electricity Board.   |                        | Municipality.        |                        | 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)                    |
| 6. TRICHY ELECTRICITY SYSTEM—cont. |                      |                        |                      |                        |                      |                        |
| I. Low Tension—                    |                      |                        |                      |                        |                      |                        |
| Industrial .. ..                   | 1,210                | 12,742·482             | ..                   | ..                     | 73,911               | 34,314·675             |
| Domestic .. ..                     | 39,301               | 27,067·959             | 6,395                | 3,304·363              | 15,455               | 5,854·765              |
| Commercial .. ..                   | 5,277                | 3,654·329              | 3,210                | 1,661·124              | 959                  | 1,334·685              |
| Street lighting .. ..              | 638                  | 630·274                | 2                    | 208·461                | 10                   | 38·710                 |
| Railways .. ..                     | 31                   | 304·358                | 2                    | 25·000                 | 273                  | 621·320                |
| Water works .. ..                  | 7                    | 73·918                 | 1                    | 18·000                 | 11                   | 9·500                  |
| Panchayat Boards .. ..             | ..                   | ..                     | ..                   | ..                     | 56                   | 890·000                |
| Oil pressing .. ..                 | ..                   | ..                     | ..                   | ..                     | 441                  | 522·920                |
| Government departments ..          | 168                  | 175·525                | ..                   | ..                     | 51                   | 306·000                |
| Cinemas .. ..                      | ..                   | ..                     | ..                   | ..                     | 143                  | 231·540                |
| Municipalities .. ..               | ..                   | ..                     | 238                  | 2,178·439              | 3,684                | 24,183·937             |
| Others .. ..                       | ..                   | ..                     | 48                   | 177·834                | 3,402                | 11,198·625             |
| Irrigation .. ..                   | 13,220               | 52,939·495             | ..                   | ..                     | ..                   | ..                     |
| L.T. Total .. ..                   | 59,852               | 97,588·340             | 9,896                | 7,573·221              | 98,396               | 79,506·677             |
| H.T. Total .. ..                   | 50                   | 166,797·564            | 1                    | 103·939                | 24                   | 8,758·458              |
| Grand total .. ..                  | 59,902               | 264,385·904            | 9,897                | 7,677·160              | 98,420               | 88,265·135             |
| Description of load.               | Electricity Board.   |                        | Municipality.        |                        | 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)                    |
| 7. TINNEVELLY ELECTRICITY SYSTEM.  |                      |                        |                      |                        |                      |                        |
| I. High Tension—                   |                      |                        |                      |                        |                      |                        |
| Textiles .. ..                     | 9                    | 7,471·90               | ..                   | ..                     | 5                    | 4,803·831              |
| Chemicals .. ..                    | 3                    | 15,083·07              | ..                   | ..                     | 2                    | 227·925                |
| Industrial .. ..                   | ..                   | ..                     | ..                   | ..                     | ..                   | ..                     |
| Oil .. ..                          | 2                    | 132·82                 | ..                   | ..                     | ..                   | ..                     |
| Cement .. ..                       | 2                    | 10,811·69              | ..                   | ..                     | ..                   | ..                     |
| Other Government departments ..    | 4                    | 932·45                 | ..                   | ..                     | ..                   | ..                     |
| Licensees .. ..                    | 5                    | 24,347·84              | ..                   | ..                     | 3                    | 631·070                |
| Water works .. ..                  | ..                   | ..                     | ..                   | ..                     | ..                   | ..                     |
| Agricultural .. ..                 | 3                    | 275·55                 | ..                   | ..                     | ..                   | ..                     |
| Commercial .. ..                   | 2                    | 215·91                 | ..                   | ..                     | ..                   | ..                     |
| Miscellaneous .. ..                | 5                    | 1,235·09               | ..                   | ..                     | ..                   | ..                     |
| Total .. ..                        | 35                   | 60,506·32              | ..                   | ..                     | 10                   | 5,662·826              |
| II. Low Tension—                   |                      |                        |                      |                        |                      |                        |
| Industrial .. ..                   | 1,447                | 12,976·00              | ..                   | ..                     | 701                  | 5,981·492              |
| Agricultural .. ..                 | 7,523                | 21,503·20              | ..                   | ..                     | 181                  | 735·223                |
| Domestic .. ..                     | 76,126               | 34,729·07              | ..                   | ..                     | 21,286               | 10,073·225             |
| Commercial .. ..                   | 7,354                | 3,792·65               | ..                   | ..                     | 497                  | 543·115                |
| Street lighting .. ..              | 450                  | 872·10                 | ..                   | ..                     | 23                   | 364·295                |
| Water works .. ..                  | 13                   | 35·56                  | ..                   | ..                     | 14                   | 177·370                |
| Oil pressing .. ..                 | ..                   | ..                     | ..                   | ..                     | 18                   | 435·430                |
| Other Government departments ..    | 3                    | 0·74                   | ..                   | ..                     | ..                   | ..                     |
| Cinemas .. ..                      | ..                   | ..                     | ..                   | ..                     | 13                   | 167·500                |
| Municipalities .. ..               | ..                   | ..                     | ..                   | ..                     | 170                  | 126·363                |
| Metal .. ..                        | ..                   | ..                     | ..                   | ..                     | 2                    | 81·000                 |
| L.T. Total .. ..                   | 92,916               | 73,909·32              | ..                   | ..                     | 22,907               | 18,685·012             |
| H.T. Total .. ..                   | 35                   | 60,506·32              | ..                   | ..                     | 10                   | 5,662·826              |
| Grand total .. ..                  | 92,951               | 134,415·64             | ..                   | ..                     | 22,917               | 24,347·838             |

## APPENDIX N.

*List of High Tension Consumers connected during 1961-62.**I. Pykara Electricity System—*

- 1 Narasimha 'B' Mills, Narasimhanaickenpalayam, Palladam.
- 2 Eastern Electricals, Singanallur, Coimbatore.
- 3 Textool Branch Works, Singanallur, Coimbatore.
- 4 Louriston Factory, The Nilgiris.
- 5 L. G. Balakrishna Bros. (P), Ltd., Ganapathy, Coimbatore.
- 6 Warwick Estate.
- 7 Erinkadu Tea Factory.
- 8 P.S.G. & Sons Hostels, Peelamedu, Coimbatore.
- 9 Headworks at Mettupalayam, Mettupalayam.
- 10 Booster Pump Station, Mettupalayam.
- 11 Booster Pump Station, Mettupalayam.
- 12 Wellington Contonment for Defence Department, Wellington, The Nilgiris.
- 13 P.A.P. Tunnel Head, Anamalai.
- 14 P.A.P. Sakarpatti, Anamalai.
- 15 Industrial Training Institute, Thudiyalur, Coimbatore.
- 16 P.W.D. Sholayar Colony, Valparai, Anamalai.

*II. Mettur Electricity System—*

- 17 Salem Roller Flour Mills, Nethimedu, Salem.
- 18 Ambal Mills, Somalapuram, Somanur.

*III. Madurai Electricity System—*

- 19 Melakkal Water-Supply Scheme, Madurai.
- 20 M/s. Ramnad Co-op., Spinning Mills, Srivilliputhur.
- 21 M/s Vellachamy Nadar Polytechnic, Virudhunagar.

*IV. Vellore Electricity System—*

- 22 The Central Leprosy, Teaching and Research Institute, Tirumani, Chingleput P.O.—Hospital.

*V. Trichy Electricity System—*

- 23 Southern Railway, Vridhachalam.
- 24 Government Ceramic Centre at Vridhachalam.
- 25 Tiruvaiyar Spinning Mills, Karur.
- 26 Annamalai University, 4th point.
- 27 Industrial Colony at Thanjavur.

*VI. Tirunelveli Electricity System—*

- 28 M/s Krishna Mines Ramayampatti.
- 29 M/s Madras State Transport Workshop, Ranithottam.
- 30 M/s Veppalodai Salt Factory, Tuticorin.
- 31 M/s. Steel Rolling Industries, Koilpatti.
- 32 Authur Water Supply Works, Kayalpattinam.

*VII. Madras Electricity System—*

- 33 Allied Industries, Washermanpet.
- 34 Cork Industries, Alandur.
- 35 Daily Thanthi, Egmore.
- 36 East India Distilleries and Sugar Factory—Quarters, Ennore.
- 37 Brode Industries, Korukkupet.

## APPENDIX N—cont.

*List of High Tension Consumers connected during 1961-62—cont.**VII Madras Electricity System—cont.*

- 38 Larson & Toubro, Mount Road.
- 39 Microtee Castings, Nandambakkam.
- 40 Madras Medical College Men's Hostel, Madras.
- 41 Madras Paper Board Industries, Sembium.
- 42 Madras Sheet Glass Works, Tiruvottiyur.
- 43 Prem Industrial Corporation, Guindy.
- 44 Ramakrishna & Sons, Tiruvottiyur.
- 45 Shardlow India Ltd., Sembium.
- 46 South India Steel Rolling Mills, Alandur.
- 47 Sundar Welders & Engineers, Ambattur.
- 48 Tractors and Farm Equipments, Sembium.
- 49 Unicorn (P) Ltd., Kondithope.
- 50 University of Madras Centenary Buildings.
- 51 United India Roller and Flour Mills, Royapuram.
- 52 Venus Studios, Adyar.
- 53 Wheels India (P) Ltd., Sembium.

*Licenses and Local Authorities—*

- 1 The Assistant Director of Industries and Commerce, Industrial Co-Operative Societies Ltd., Katpadi.
- 2 The Commissioner, Vellore Municipality, Municipal Water Works, Vellore.

## APPENDIX O.

NUMBER OF TOWNS VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62 AND THE TOTAL  
AS ON 31ST MARCH 1962.

## Abstract.

| Name of district.     | Number of taluks. | Electrified as on 31st March 1961. |        |        | Electrified during 1961-62. |        |        | Grand total as on 31st March 1962. |         |         |             |       |        |
|-----------------------|-------------------|------------------------------------|--------|--------|-----------------------------|--------|--------|------------------------------------|---------|---------|-------------|-------|--------|
|                       |                   | T. (3)                             | R. (4) | H. (5) | T. (7)                      | R. (8) | H. (9) | T. (11)                            | R. (12) | H. (13) | Total. (14) |       |        |
| (1)                   | (2)               |                                    |        |        |                             |        |        |                                    |         |         |             |       |        |
| 1 Chingleput ..       | 8                 | 20                                 | 954    | 407    | 1,381                       | ..     | 70     | 48                                 | 118     | 20      | 1,024       | 455   | 1,499  |
| 2 Coimbatore ..       | 9                 | 22                                 | 558    | 1,535  | 2,115                       | ..     | 39     | 248                                | 287     | 22      | 597         | 1,782 | 2,402  |
| 3 Kanyakumari ..      | 4                 | 17                                 | 314    | 118    | 449                         | ..     | 41     | 10                                 | 51      | 17      | 355         | 128   | 500    |
| 4 Madras ..           | ..                | 1                                  | ..     | ..     | 1                           | ..     | ..     | ..                                 | ..      | 1       | ..          | ..    | 1      |
| 5 Madurai ..          | 8                 | 26                                 | 551    | 195    | 1,072                       | ..     | 45     | 130                                | 175     | 26      | 596         | 625   | 1,247  |
| 6 Nilgiris ..         | 3                 | 4                                  | 32     | 264    | 300                         | ..     | 1      | 15                                 | 16      | 4       | 33          | 279   | 316    |
| 7 North Arcot ..      | 11                | 22                                 | 945    | 568    | 1,435                       | ..     | 132    | 186                                | 318     | 22      | 977         | 754   | 1,753  |
| 8 Ramanathapuram ..   | 9                 | 32                                 | 341    | 359    | 732                         | ..     | 80     | 86                                 | 166     | 32      | 421         | 445   | 898    |
| 9 Salem ..            | 10                | 19                                 | 427    | 435    | 881                         | ..     | 86     | 140                                | 226     | 19      | 513         | 575   | 1,107  |
| 10 South Arcot ..     | 8                 | 18                                 | 388    | 166    | 572                         | ..     | 94     | 59                                 | 153     | 18      | 482         | 225   | 725    |
| 11 Tirunelveli ..     | 9                 | 47                                 | 357    | 391    | 795                         | ..     | 62     | 161                                | 223     | 47      | 419         | 552   | 1,018  |
| 12 Tiruchirappalli .. | 10                | 28                                 | 254    | 210    | 492                         | ..     | 34     | 107                                | 141     | 28      | 288         | 317   | 633    |
| 13 Thanjavur ..       | 11                | 29                                 | 362    | 144    | 535                         | ..     | 10     | 9                                  | 19      | 29      | 372         | 153   | 554    |
| Total ..              | ..                | 285                                | 5,383  | 5,092  | 10,760                      | ..     | 694    | 1,199                              | 1,893   | 285     | 6,077       | 6,291 | 12,653 |

## APPENDIX

## APPENDIX O—cont.

## Abstract—cont.

NUMBER OF TOWNS, VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62 AND THE TOTAL AS ON 31ST MARCH 1962—cont.

| Serial number and name of taluk. | (1) | Electrified as on 31st March 1961. |     |        | Electrified during 1961-62. |     |        | Grand total as on 31st March 1962. |     |        |
|----------------------------------|-----|------------------------------------|-----|--------|-----------------------------|-----|--------|------------------------------------|-----|--------|
|                                  |     | T.                                 | R.  | Total. | T.                          | R.  | Total. | T.                                 | R.  | Total. |
|                                  |     | (2)                                | (3) | (4)    | (5)                         | (6) | (7)    | (8)                                | (9) | (10)   |
| CHINGLEPUT DISTRICT.             |     |                                    |     |        |                             |     |        |                                    |     |        |
| 1 Chingleput ..                  | ..  | 2                                  | 145 | 53     | 200                         | ..  | 8      | 7                                  | 15  | 2      |
| 2 Kancheepuram ..                | ..  | 3                                  | 145 | 39     | 187                         | ..  | 17     | 4                                  | 21  | 3      |
| 3 Maduranthakam ..               | ..  | 2                                  | 163 | 56     | 221                         | ..  | 10     | 4                                  | 14  | 2      |
| 4 Ponneri ..                     | ..  | 2                                  | 118 | 43     | 163                         | ..  | ..     | 4                                  | 4   | 2      |
| 5 Saidapet ..                    | ..  | 6                                  | 100 | 64     | 170                         | ..  | 4      | 3                                  | 7   | 6      |
| 6 Sripurambudur ..               | ..  | 3                                  | 86  | 48     | 137                         | ..  | 4      | 6                                  | 10  | 3      |
| 7 Tiruvallur ..                  | ..  | 1                                  | 147 | 93     | 241                         | ..  | 4      | 1                                  | 5   | 1      |
| 8 Tiruttani ..                   | ..  | 1                                  | 50  | 11     | 62                          | ..  | 23     | 19                                 | 42  | 1      |
| Total ..                         | ..  | 20                                 | 954 | 407    | 1,381                       | ..  | 70     | 48                                 | 118 | 20     |

## COIMBATORE DISTRICT.

|                        |    |    |     |     |       |    |    |     |     |    |
|------------------------|----|----|-----|-----|-------|----|----|-----|-----|----|
| 1 Avanashi ..          | .. | 3  | 57  | 294 | 354   | .. | .. | ..  | ..  | 3  |
| 2 Bhavani ..           | .. | 1  | 35  | 78  | 114   | .. | 1  | 21  | 22  | 1  |
| 3 Dharapuram ..        | .. | 1  | 69  | 118 | 188   | .. | 5  | 108 | 113 | 1  |
| 4 Erode ..             | .. | 1  | 27  | 171 | 199   | .. | 7  | 45  | 52  | 1  |
| 5 Gobichettipalayam .. | .. | 2  | 63  | 200 | 265   | .. | 7  | 17  | 24  | 2  |
| 6 Palladam ..          | .. | 3  | 50  | 177 | 230   | .. | 6  | 30  | 36  | 3  |
| 7 Pollachi ..          | .. | 4  | 88  | 261 | 353   | .. | 12 | 14  | 26  | 4  |
| Total ..               | .. | 20 | 954 | 407 | 1,381 | .. | 70 | 48  | 118 | 20 |

|                 |    |    |     |       |       |    |    |     |     |    |
|-----------------|----|----|-----|-------|-------|----|----|-----|-----|----|
| 8 Udumalpet ..  | .. | 1  | 103 | 145   | 249   | .. | 1  | 10  | 11  | 1  |
| 9 Coimbatore .. | .. | 6  | 66  | 91    | 163   | .. | .. | 3   | 3   | 6  |
| Total ..        | .. | 22 | 558 | 1,535 | 2,115 | .. | 39 | 248 | 287 | 22 |

## KANYAKUMARI DISTRICT.

|                     |    |    |     |     |     |    |    |    |    |    |
|---------------------|----|----|-----|-----|-----|----|----|----|----|----|
| 1 Agastheeswaram .. | .. | 3  | 132 | 54  | 189 | .. | 24 | 1  | 25 | 3  |
| 2 Kalkulam ..       | .. | 8  | 101 | 36  | 145 | .. | 11 | 9  | 20 | 8  |
| 3 Thovala ..        | .. | 4  | 50  | 12  | 66  | .. | 6  | .. | 6  | 4  |
| 4 Villavancode ..   | .. | 2  | 31  | 16  | 49  | .. | .. | .. | .. | 2  |
| Total ..            | .. | 17 | 314 | 118 | 449 | .. | 41 | 10 | 51 | 17 |

## MADRAS DISTRICT.

|             |    |   |    |    |   |    |    |    |    |   |
|-------------|----|---|----|----|---|----|----|----|----|---|
| 1 Madras .. | .. | 1 | .. | .. | 1 | .. | .. | .. | .. | 1 |
| Total ..    | .. | 1 | .. | .. | 1 | .. | .. | .. | .. | 1 |

## MADURAI DISTRICT.

|                    |    |    |     |     |       |    |    |     |     |    |
|--------------------|----|----|-----|-----|-------|----|----|-----|-----|----|
| 1 Dindigul ..      | .. | 1  | 143 | 68  | 212   | .. | 9  | 52  | 61  | 1  |
| 2 Madurai ..       | .. | 2  | 58  | 36  | 96    | .. | 7  | 8   | 15  | 2  |
| 3 Melur ..         | .. | 2  | 35  | 20  | 57    | .. | 7  | 6   | 13  | 2  |
| 4 Nilakottai ..    | .. | 3  | 60  | 77  | 140   | .. | 2  | 11  | 13  | 3  |
| 5 Palani ..        | .. | 3  | 75  | 105 | 183   | .. | 8  | 27  | 35  | 3  |
| 6 Periakulam ..    | .. | 10 | 71  | 88  | 169   | .. | 7  | 23  | 30  | 10 |
| 7 Thirumangalam .. | .. | 4  | 105 | 95  | 204   | .. | 4  | 3   | 7   | 4  |
| 8 Kodakand ..      | .. | 1  | 4   | 6   | 11    | .. | 1  | ..  | 1   | 1  |
| Total ..           | .. | 26 | 551 | 495 | 1,072 | .. | 45 | 130 | 175 | 26 |

## APPENDIX O—cont.

NUMBER OF TOWNS AND VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62 AND THE TOTAL AS ON 31ST MARCH 1962—cont.

## Abstract—cont.

| Serial number and name of sub. | Electrified as on 31st March 1961. |     |     |        | Electrified during 1961-62. |     |     |        | Grand total as on 31st March 1962. |      |      |        |
|--------------------------------|------------------------------------|-----|-----|--------|-----------------------------|-----|-----|--------|------------------------------------|------|------|--------|
|                                | T.                                 | R.  | H.  | Total. | T.                          | R.  | H.  | Total. | T.                                 | R.   | H.   | Total. |
|                                | (2)                                | (3) | (4) | (5)    | (6)                         | (7) | (8) | (9)    | (10)                               | (11) | (12) | (13)   |
| NILGIRIS DISTRICT.             |                                    |     |     |        |                             |     |     |        |                                    |      |      |        |
| 1 Coonoor .. .. .              | 3                                  | 14  | 138 | 150    | ..                          | ..  | 9   | 9      | 3                                  | 14   | 142  | 159    |
| 2 Gudalur .. .. .              | ..                                 | 4   | 11  | 15     | ..                          | 1   | 6   | 7      | ..                                 | 5    | 17   | 22     |
| 3 Ootacamund .. ..             | 1                                  | 14  | 150 | 155    | ..                          | ..  | ..  | ..     | 1                                  | 14   | 120  | 135    |
| Total .. .. .                  | 4                                  | 32  | 264 | 300    | ..                          | 1   | 15  | 16     | 4                                  | 33   | 279  | 316    |
| NORTH ARCOT DISTRICT.          |                                    |     |     |        |                             |     |     |        |                                    |      |      |        |
| 1 Arconam .. .. .              | 3                                  | 71  | 58  | 132    | ..                          | 12  | 16  | 28     | 3                                  | 83   | 74   | 160    |
| 2 Arni .. .. .                 | 1                                  | 71  | 15  | 87     | ..                          | 9   | 21  | 30     | 1                                  | 80   | 36   | 117    |
| 3 Chengam .. .. .              | ..                                 | 61  | 22  | 83     | ..                          | 7   | 3   | 10     | ..                                 | 68   | 25   | 93     |
| 4 Cheryar .. .. .              | 1                                  | 124 | 45  | 180    | ..                          | 5   | 5   | 10     | 1                                  | 139  | 50   | 190    |
| 5 Gudiatham .. ..              | 2                                  | 104 | 127 | 233    | ..                          | 9   | 25  | 34     | 2                                  | 113  | 152  | 267    |
| 6 Polur .. .. .                | 3                                  | 79  | 81  | 163    | ..                          | 8   | 15  | 23     | 3                                  | 87   | 96   | 186    |
| 7 Tirupathur .. ..             | 2                                  | 49  | 63  | 114    | ..                          | 17  | 24  | 41     | 2                                  | 66   | 87   | 155    |
| 8 Thiruvannamalai ..           | 1                                  | 56  | 34  | 91     | ..                          | 21  | 13  | 34     | 1                                  | 77   | 47   | 125    |
| 9 Vellore .. .. .              | 8                                  | 57  | 42  | 102    | ..                          | 8   | 27  | 35     | 3                                  | 65   | 69   | 137    |
| 10 Wallajpet .. ..             | 5                                  | 96  | 63  | 163    | ..                          | 8   | 25  | 33     | 5                                  | 104  | 87   | 196    |
| 11 Wandiwash .. ..             | 1                                  | 67  | 19  | 87     | ..                          | 28  | 12  | 40     | 1                                  | 95   | 31   | 127    |
| Total .. .. .                  | 32                                 | 845 | 568 | 1,435  | ..                          | 132 | 186 | 318    | 22                                 | 977  | 754  | 1,752  |

## RAMANATHAPURAM DISTRICT.

|                        |    |     |     |     |    |    |    |     |    |     |     |     |
|------------------------|----|-----|-----|-----|----|----|----|-----|----|-----|-----|-----|
| 1 Aruppukottai .. ..   | 4  | 36  | 49  | 89  | .. | 2  | 6  | 8   | 4  | 38  | 55  | 97  |
| 2 Madukulaethur .. ..  | 2  | 19  | 11  | 32  | .. | 5  | 1  | 6   | 2  | 24  | 12  | 38  |
| 3 Paramakudi .. ..     | 3  | 20  | 9   | 32  | .. | 7  | 1  | 8   | 3  | 27  | 10  | 40  |
| 4 Ramanathapuram .. .. | 3  | 20  | 7   | 30  | .. | 9  | 1  | 10  | 3  | 29  | 8   | 40  |
| 5 Sattur .. .. .       | 3  | 94  | 109 | 206 | .. | 41 | 58 | 99  | 3  | 135 | 167 | 305 |
| 6 Sivaganga .. .. .    | 4  | 31  | 15  | 50  | .. | 9  | 3  | 12  | 4  | 40  | 18  | 62  |
| 7 Srivilliputhur .. .. | 4  | 58  | 104 | 166 | .. | 3  | 13 | 16  | 4  | 61  | 117 | 182 |
| 8 Thirupathur .. ..    | 8  | 55  | 41  | 104 | .. | 1  | 2  | 3   | 8  | 56  | 43  | 107 |
| 9 Thiruvadanai .. ..   | 1  | 8   | 14  | 23  | .. | 3  | 1  | 4   | 1  | 11  | 15  | 27  |
| Total .. .. .          | 32 | 341 | 359 | 732 | .. | 80 | 86 | 166 | 32 | 421 | 445 | 898 |

## SALEM DISTRICT.

|                        |    |     |     |     |    |    |     |     |    |     |     |       |
|------------------------|----|-----|-----|-----|----|----|-----|-----|----|-----|-----|-------|
| 1 Attur .. .. .        | 1  | 64  | 46  | 111 | .. | 10 | 6   | 16  | 1  | 74  | 52  | 127   |
| 2 Dharmapuri .. ..     | 1  | 30  | 44  | 75  | .. | 7  | 15  | 22  | 1  | 37  | 59  | 97    |
| 3 Harur .. .. .        | 1  | 35  | 22  | 58  | .. | 19 | 22  | 41  | 1  | 54  | 44  | 99    |
| 4 Hosur .. .. .        | 2  | 10  | 7   | 19  | .. | 3  | ..  | 3   | 2  | 13  | 7   | 22    |
| 5 Krishnagiri .. ..    | 2  | 18  | 55  | 75  | .. | 11 | 16  | 29  | 2  | 29  | 73  | 104   |
| 6 Namakkal .. .. .     | 2  | 67  | 62  | 131 | .. | 15 | 38  | 53  | 2  | 82  | 100 | 184   |
| 7 Omalur .. .. .       | 4  | 35  | 54  | 93  | .. | 3  | 8   | 11  | 4  | 38  | 62  | 104   |
| 8 Rasipuram .. ..      | 1  | 51  | 53  | 105 | .. | 8  | 11  | 19  | 1  | 59  | 64  | 124   |
| 9 Salem .. .. .        | 1  | 79  | 30  | 110 | .. | 7  | 4   | 11  | 1  | 86  | 34  | 121   |
| 10 Thiruchengode .. .. | 4  | 38  | 62  | 104 | .. | 2  | 16  | 18  | 4  | 40  | 78  | 122   |
| 11 Senkari .. .. .     | .. | ..  | ..  | ..  | .. | 1  | 2   | 3   | .. | 1   | 2   | 3     |
| Total .. .. .          | 19 | 437 | 435 | 881 | .. | 86 | 140 | 226 | 19 | 513 | 575 | 1,107 |

NUMBER OF TOWNS, VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62 AND THE TOTAL AS ON 31ST MARCH 1962—cont.

## Abstract—cont.

| Serial number and name of taluk.<br>(1) | Electrified as on 31st March 1961. |     |     |        | Electrified during 1961-62. |     |     |        | Grand total as on 31st March 1962. |      |      |        |
|-----------------------------------------|------------------------------------|-----|-----|--------|-----------------------------|-----|-----|--------|------------------------------------|------|------|--------|
|                                         | T.                                 | R.  | H.  | Total. | T.                          | R.  | H.  | Total. | T.                                 | R.   | H.   | Total. |
|                                         | (2)                                | (3) | (4) | (5)    | (6)                         | (7) | (8) | (9)    | (10)                               | (11) | (12) | (13)   |
| SOUTH ARCANOT DIST. ICT.                |                                    |     |     |        |                             |     |     |        |                                    |      |      |        |
| 1 Gingee ..                             | ..                                 | 41  | 23  | 64     | ..                          | 21  | 18  | 39     | ..                                 | 62   | 41   | 103    |
| 2 Chidambaram ..                        | 5                                  | 35  | 22  | 62     | ..                          | 3   | ..  | 3      | 5                                  | 38   | 22   | 65     |
| 3 Cuddalore ..                          | 4                                  | 60  | 41  | 105    | ..                          | 12  | 4   | 16     | 4                                  | 72   | 45   | 121    |
| 4 Kallakurichi ..                       | 2                                  | 27  | 6   | 35     | ..                          | 8   | 2   | 10     | 2                                  | 35   | 8    | 45     |
| 5 Tindivanam ..                         | 1                                  | 75  | 15  | 91     | ..                          | 15  | 3   | 18     | 1                                  | 90   | 13   | 109    |
| 6 Thirukoilur ..                        | 2                                  | 73  | 13  | 93     | ..                          | 7   | 6   | 13     | 2                                  | 80   | 24   | 106    |
| 7 Villupuram ..                         | 2                                  | 49  | 41  | 92     | ..                          | 13  | 23  | 36     | 2                                  | 62   | 64   | 128    |
| 8 Virudhachalam ..                      | 2                                  | 28  | ..  | 30     | ..                          | 15  | 3   | 18     | 3                                  | 43   | 3    | 48     |
| Total ..                                | 18                                 | 388 | 166 | 572    | ..                          | 94  | 59  | 153    | 18                                 | 482  | 225  | 725    |

## TIRUNELVELI DISTRICT.

|                     |   |    |    |     |    |    |    |    |   |    |     |     |
|---------------------|---|----|----|-----|----|----|----|----|---|----|-----|-----|
| 1 Ambasamundram ..  | 7 | 43 | 52 | 102 | .. | 2  | 3  | 5  | 7 | 45 | 55  | 107 |
| 2 Kovilpatti ..     | 6 | 78 | 45 | 129 | .. | 11 | 13 | 24 | 6 | 89 | 58  | 153 |
| 3 Nanguneri ..      | 6 | 50 | 99 | 155 | .. | 6  | 32 | 38 | 6 | 56 | 131 | 193 |
| 4 Sankarankoil ..   | 5 | 56 | 42 | 104 | .. | 6  | 9  | 15 | 5 | 62 | 52  | 119 |
| 5 Shencottah ..     | 4 | 3  | 1  | 8   | .. | 13 | 1  | 14 | 4 | 16 | 2   | 22  |
| 6 Srivilliputhur .. | 4 | 21 | 22 | 47  | .. | 2  | 6  | 8  | 4 | 23 | 28  | 55  |
| 7 Tenkasi ..        | 3 | 41 | 53 | 97  | .. | 5  | 43 | 48 | 3 | 46 | 96  | 145 |

|                  |    |    |     |     |     |    |    |     |     |    |     |       |
|------------------|----|----|-----|-----|-----|----|----|-----|-----|----|-----|-------|
| 8 Tiruchendur .. | .. | 8  | 32  | 65  | 105 | .. | 9  | 48  | 57  | 8  | 41  | 162   |
| 9 Tirunelveli .. | .. | 4  | 33  | 11  | 48  | .. | 8  | 6   | 14  | 4  | 41  | 62    |
| Total ..         | .. | 47 | 357 | 391 | 795 | .. | 62 | 161 | 223 | 47 | 419 | 1,018 |

## TIRUCHIRAPPALLI DISTRICT.

|                      |    |    |     |     |     |    |    |     |     |    |     |     |
|----------------------|----|----|-----|-----|-----|----|----|-----|-----|----|-----|-----|
| 1 Alangudi ..        | .. | 2  | 14  | 7   | 23  | .. | 5  | 2   | 7   | 2  | 19  | 30  |
| 2 Karur ..           | .. | 4  | 26  | 62  | 92  | .. | 8  | 68  | 76  | 4  | 34  | 168 |
| 3 Kulathur ..        | .. | .. | 16  | 15  | 31  | .. | 5  | 7   | 12  | .. | 21  | 43  |
| 4 Kulithalai ..      | .. | 2  | 40  | 41  | 83  | .. | 4  | 16  | 20  | 2  | 44  | 102 |
| 5 Tiruchirappalli .. | .. | 4  | 44  | 22  | 70  | .. | 1  | 2   | 3   | 4  | 45  | 73  |
| 6 Tirumayam ..       | .. | 5  | 26  | 17  | 48  | .. | 5  | 2   | 7   | 5  | 31  | 55  |
| 7 Lalgudi ..         | .. | 3  | 47  | 25  | 75  | .. | 1  | 1   | 2   | 3  | 48  | 77  |
| 8 Musiri ..          | .. | 6  | 32  | 15  | 53  | .. | 3  | 7   | 10  | 6  | 35  | 63  |
| 9 Perambalur ..      | .. | 1  | 3   | 1   | 5   | .. | 2  | 1   | 3   | 1  | 5   | 8   |
| 10 Udayarpalayam ..  | .. | 1  | 6   | 5   | 12  | .. | .. | 1   | 1   | 1  | 6   | 13  |
| Total ..             | .. | 28 | 254 | 210 | 492 | .. | 34 | 107 | 141 | 28 | 288 | 633 |

## THANJAVUR DISTRICT.

|                         |    |    |     |     |     |    |    |    |    |    |     |     |
|-------------------------|----|----|-----|-----|-----|----|----|----|----|----|-----|-----|
| 1 Thanjavur ..          | .. | 2  | 14  | 6   | 22  | .. | 1  | 2  | 3  | 2  | 15  | 25  |
| 2 Aranthangi ..         | .. | 1  | ..  | ..  | 1   | .. | .. | .. | .. | 1  | ..  | 1   |
| 3 Mannargudi ..         | .. | 3  | 15  | 10  | 28  | .. | .. | .. | .. | 3  | 16  | 28  |
| 4 Mayuram ..            | .. | 3  | 37  | 20  | 60  | .. | 3  | 1  | 4  | 3  | 40  | 64  |
| 5 Nagapattinam ..       | .. | 2  | 43  | 23  | 68  | .. | .. | .. | .. | 2  | 43  | 68  |
| 6 Nannilam ..           | .. | 2  | 65  | 34  | 101 | .. | .. | 1  | 1  | 2  | 65  | 102 |
| 7 Pattukottai ..        | .. | 3  | 19  | 2   | 24  | .. | .. | .. | .. | 3  | 19  | 24  |
| 8 Sirkali ..            | .. | 4  | 16  | 9   | 29  | .. | .. | .. | .. | 4  | 16  | 29  |
| 9 Thiruthuraiyapundi .. | .. | 3  | 32  | 12  | 47  | .. | .. | .. | .. | 3  | 32  | 47  |
| 10 Papanasam ..         | .. | 4  | 62  | 9   | 75  | .. | 1  | 1  | 2  | 4  | 63  | 77  |
| 11 Kumbakonam ..        | .. | 2  | 59  | 19  | 80  | .. | 5  | 4  | 9  | 2  | 64  | 89  |
| Total ..                | .. | 29 | 362 | 144 | 535 | .. | 10 | 9  | 19 | 29 | 372 | 554 |

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING  
THE YEAR 1961-62.

## CHINGLEPUT DISTRICT.

## Chingleput taluk.

- 1 Kudiperumbakkam (256) H
- 2 Venbakkam (138)
- 3 Thandalam (128)
- 4 Mambakkam (210)
- 5 Madayathur (122)
- 6 Karuppangadu (195) H
- 7 Vedakal (84) H
- 8 Hanumanthai (91)
- 9 Veerapuram (90)
- 10 Malayambakkam (90) H
- 11 Salur (209)
- 12 Velangadu (256) H
- 13 Nagankohlai (256) H
- 14 Irumbilicheri (259)
- 15 Theppanampattu (259) H

## Saidapet taluk.

- 1 Uggamthuraipakkam (124)
- 2 Seevaram (119)
- 3 Ernavur (2)
- 4 Ramanathapuram (2) H
- 5 Perungudy (118)
- 6 Kaundapalayam (57) H
- 7 Murukkambedu (86) H

## Sripereumbudur taluk.

- 1 Salamangalam (178)
- 2 Nariambakkam (178) H
- 3 Valarapuram (40)
- 4 Chinna Valarapuram (49) H
- 5 Chakkilipalayam (115) H
- 6 Annambedu (5)
- 7 Nemmeli (71)
- 8 Melagaram (20) H
- 9 Puspagiri (30) H
- 10 Sirumathur (20) H

## Kansheepuram taluk.

## Uthiramerur Sub-taluk.

- 1 Vadaveripattu (95) H
- 2 Kattukollai (351) H
- 3 Alavur (133)
- 4 Varanavasi (136)
- 5 Chinna nadurapakkam (138)
- 6 Maniyachi (11)
- 7 Nariambattur (225)
- 8 Devarambakkam (140)
- 9 Madur (199)
- 10 Pullambakkam (190)
- 11 Vedal (59)
- 12 Talavarampoondi (396)
- 13 Valathode (273)
- 14 Alanjeri (275)
- 15 Thottannaival (272)
- 16 Kattiampandal (302)
- 17 Pothamporavadi (44) H
- 18 Rottamangalam (280)
- 19 Sendamangalam (280) H
- 20 Vinnamangalam (274)
- 21 Nariambakkam (286)

## CHINGLEPUT DISTRICT—cont.

## Madurantakam taluk.

- 1 Palayanur (26)
- 2 Tiruvadur (176)
- 3 Ariyanur (212)
- 4 Nesapakkam (213)
- 5 Puliyavanarpattai (87)
- 6 Vichur (82) H
- 7 Panampattu (82) H
- 8 Parameswaramangalam (147)
- 9 Natham (147) H
- 10 Veppanancheri (149)
- 11 Kallapiranpuram (37)
- 12 Reddipalayam H
- 13 Volanur H
- 14 Perumbakkam (57)

## Ponneri taluk.

- 1 Annavaram (231) H
- 2 Pudiupakkam (231) H
- 3 Thandavarayampalayam (379) H
- 4 Sattankulam (126) H

## Trivellore taluk.

- 1 Kalapattu (191)
- 2 Perambur (277)
- 3 Kayyodai (126)
- 4 Surakapuram (358) H
- 5 Ammanambakkam (139)

## Tiruttani taluk.

- 1 Anandavallipuram (196)
- 2 Muthialvaripalli (194)
- 3 Janakrarajukuppam (200)
- 4 Lakshmiapuram (201)
- 5 Mattavalam (195)
- 6 Punyam (27)
- 7 Nallannapet (27) H
- 8 Melprodatturpet (49) H
- 9 Savattur H
- 10 Edayakuppam (59) H
- 11 Kakalur (57)
- 12 Venkalarajakuppam (59) H
- 13 Rajanagaram (100)
- 14 Mottur (100) H
- 15 Narasampet (99)
- 16 Gudur (151)
- 17 Beerakuppam (234)
- 18 Santhanavenugopalapuram (314)
- 19 Kalambakkam (338)
- 20 Pattramthangal (132) H
- 21 Venkatarajakandigai (172) H
- 22 Anjaneyapuram H
- 23 Veeraragavapuram (60) H
- 24 Pudupattu (7) H
- 25 Munreddy Kandigai (H)
- 26 Mavur (H)
- 27 Bikkasani Vengama Naidu Kandiga (284)
- 28 Kesavarajupet (283)
- 29 Chinna Athimajerai (79)
- 30 Chellur palle (79) H
- 31 Chinnakadambur (385)

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING  
THE YEAR 1961-62—cont.

## CHINGLEPUT DISTRICT—cont.

## Tiruttani taluk—cont.

- 32 Mettur (285) H
- 33 Karimbedu (15)
- 34 Karimbakkam (55)
- 35 Sitarapuram (53)
- 36 Noohili (81)
- 37 Appayyanaidukandigai (81) H
- 38 Kothur (81) H
- 39 Ramachandrapuram (17)
- 40 Chinnathimmarajupattada (18)
- 41 Kesavarajapuram (17) H
- 42 Ganesapuram H

## COIMBATORE DISTRICT.

## Bhavani taluk.

- 1 Kemmiampatty (29) H
- 2 Nellalpalayam (35) H
- 3 Thurusampalayam (43) H
- 4 Muthugoundanur (H)
- 5 Nallipalayam (H)
- 6 Shangapalayam (13) H
- 7 Andiyur Co-operative colony (H)
- 8 Nagalore (12)
- 9 Muniappanpalayam (H)
- 10 Moonanchavadi (23) H
- 11 Kandiamur-Mettur (13)
- 12 Palapalayam (51) H
- 13 Ayyampalayam (51) H
- 14 Marappampalayam (51) H
- 15 Andipalayam (51) H
- 16 Mullianur (20) H
- 17 Unjapalayam (24) H
- 18 Selligoundenur (30) H
- 19 Makkalur (16) H
- 20 Kalipatty (16) H
- 21 Karattur (16) H
- 22 Vilanguttaiyur (16) H

## Coimbatore taluk.

- 1 Vandikarnnur (50) H
- 2 Kuppalpalayam (50) H
- 3 Kembalur (50) H

## Dharapuram taluk.

- 1 Periaputhur (65) H
- 2 Mandiapuram (H)
- 3 Ellandamadai (92) H
- 4 Kangumapalayam (36) H
- 5 Angitholuvu (65) H
- 6 Nothipalayam (56) H
- 7 Nagalingapuram (H)
- 8 Kokkanpalayam (36)
- 9 Ammapalayam (H)
- 10 Maravapalayam (H)
- 11 Valayampudur (H)
- 12 Tharamapudur (H)
- 13 Udakkalalayam (H)
- 14 Ramapattanam (70) (H)
- 15 Karuppanpalayam (H)
- 16 Puthur (H)
- 17 Athukalpudur (69) H

## COIMBATORE DISTRICT—cont.

## Dharapuram taluk—cont.

- 18 Vaduganathapuram (37) H
- 19 Kariapalayam (25) H
- 20 Edayapathy H
- 21 Vallampalayam (70) H
- 22 Somenkottai (72) H
- 23 Uranaickonvalasu H
- 24 Nalliappagoundenvalasu H
- 25 Koilmedu (H)
- 26 Nadupatty (H)
- 27 Kallankattuvalasu (24) H
- 28 Veerakumaravalasu H
- 29 Thoppampatty (60)
- 30 Chinnayagoundenpalayam H
- 31 Thandarapalayam (H)
- 32 Madathupalayam (H)
- 33 Vengikalpalayam (H)
- 34 Konapuram (H)
- 35 Sunnambukattuvalasu (72) H
- 36 Perianagoundanvalasu H
- 37 Thurambadi (46)
- 38 Nainagoundanvalasu (46) H
- 39 Mettupatty or Chakkiliarvalasu H
- 40 Nathappalayam (H)
- 41 Vanniappagoundanvalasu H
- 42 Srinipagoundanvalasu (H)
- 43 Kolanthaigoundanvalasu (H)
- 44 Sinarpalayam (H)
- 45 Rakkivalasu (72) H
- 46 Olapalayam (48) H
- 47 Gurunathakottai (44) H
- 48 Neelankalaivalasu (76) H
- 49 Garudankottai (H)
- 50 Pallapalayam (84) H
- 51 Avanashipuram (H)
- 52 Thirumalaipalayam (H)
- 53 Jaganathapuram (H)
- 54 Elugamavalasu (H)
- 55 Naduvalasu (H)
- 56 Uchanavalasu (84) H
- 57 Anappalayam (H)
- 58 Koneripatti (H)
- 59 Krishnapuram (H)
- 60 Vavipudur (H)
- 61 Hanumanthamkottai (H)
- 62 Veerappagoundenvalasu (H)
- 63 Veerappagoundenvalasu (72) H
- 64 Chinnarvalasu (H)
- 65 Kannimackovilpudur (74) H
- 66 Kannakkapillaipudur (37) H
- 67 Navithanapudur (36) H
- 68 Udainarpalayam (51) H
- 69 Govindapuram H
- 70 Thirumangalam (24) H
- 71 Reddivalasu (24) H
- 72 Kattapuli (66) H
- 73 Chinniahgoundenpalayam (66) H
- 74 Rattalavalasu (71) H
- 75 Chettiarpudur (71) H
- 76 Komarapalayam (70) H
- 77 Thekalur (62) H
- 78 Ammapatty (66) H
- 79 Chithravuthampalayam (66)
- 80 Sinnappoolevadi (53) H
- 81 Muthur (53) H
- 82 Kolanthalpalayam (51) H

## APPENDIX O—cont.

## LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62—cont.

## COIMBATORE DISTRICT—cont.

## Dharapuram taluk—cont.

- 83 Seshayampalayam (75) H
- 84 Puthur (75) H
- 85 Thoppor (75) H
- 86 Vengikalpatty (75) H
- 87 Semmandagoundenvalasu (75) H
- 88 Sanarpatty (74) H
- 89 Dasarpatty North (64) H
- 90 Kalani (79) H
- 91 Uppupalayam (24) H
- 92 Uthamagoundanvalasu (H)
- 93 Kumaryanpalayam (H)
- 94 Ellapalayam (H)
- 95 Sampalaththotampathur (H)
- 96 Vadakkisonarpatty (H)
- 97 Nattamangalam (H)
- 98 Veeranpatty (46) H
- 99 Kombathottam (46) H
- 100 Koilpudur (72) H
- 101 Mankupatty (72) H
- 102 Nallasellipalayam (H)
- 103 Koilmettupudur (H)
- 104 Ellapalayam (H)
- 105 Palenigoundanvalasu (H)
- 106 Karuppanvalasipudur (H)
- 107 Ganapathipalayam (70) H
- 108 Puthur (21) H
- 109 Padiaidipalayam (21) H
- 110 Sathavalasu (12) H
- 111 Varadappampalayam (13) H
- 112 Veeranjimangalam (69)
- 113 Olapalayam (48) H

## Erode taluk.

- 1 Kanakhanpalayam (78) H
- 2 Subbarayavalasu (H)
- 3 Pudurvalasu (79) H
- 4 Ashikadu H
- 5 Thalapanangadu (H)
- 6 Solaikalipalayam (197) H
- 7 Ramasamudram (H)
- 8 Periaavattam (H)
- 9 Olathundu (H)
- 10 Vengamedu (195) H
- 11 Avadiaparaipudur (H)
- 12 Unjapalayam (29) H
- 13 Muthayipalayam (122)
- 14 (Kalamangalam) Punjai (147B)
- 15 Nagamaaickenpalayam (196)
- 16 Thalayampalayam (76) H
- 17 Suranaickenur (76) H
- 18 Ellapalayam (76) H
- 19 Kallipalayam (76) H
- 20 Avadiapara (195)
- 21 Ammankovilpudur (176) H
- 22 Kavundampalayam (176) H
- 23 Thoppapalayam (176) H
- 24 Velayudampalayam (176) H
- 25 Samarpalayam (147B) H
- 26 Velampalayam (147B) H
- 27 Kolathupalayam (147B) H
- 28 Ayyagoundenvalasu (147B) H
- 29 Sembagoundanvalasu (147B) H
- 30 Poonaigoundanur (146) H
- 31 Sembavallam (146) H

## COIMBATORE DISTRICT—cont.

## Erode taluk—cont.

- 32 Palanaickenpalayam (164) H
- 33 Sivagiri (176)
- 34 Lingagoundanvalasu (176) H
- 35 Marappanpalayam (176) H
- 36 Vettuvapalayam (176) H
- 37 Velampalayam (182) H
- 38 Seraivalampalayam (182) H
- 39 Naduvlampalayam (182) H
- 40 Kullayur (182) H
- 41 Anoripalayam (182) H
- 42 Rakkiapalayam (182) H
- 43 Kunnampalayam (182) H
- 44 Chinnakannampalayam (182) H
- 45 Chettipalayam (182) H
- 46 Mavanaickenur (182) H
- 47 Kandappagoundenvalasu (172) H
- 48 Vadugapalayam (172) H
- 49 Servaikavanvalasu (172) H
- 50 Kuppachipalayam (173) H
- 51 Andipalayam (182)
- 52 Karuppagoundanvalasu (147B) H

## Gobichettipalayam taluk.

- 1 Mottanam (113) H
- 2 Alagampalayam (H)
- 3 Pudupalayam (103) H
- 4 Ponnampalayam (H)
- 5 Sembandapalayam (41) H
- 6 Mevani (99)
- 7 Odayagoundenpalayam (73)
- 8 Unjapalayam H
- 9 Arumaikaranpudur (67) H
- 10 Semmampalayam (100) H
- 11 Gandeshpudur (98) H
- 12 Shenbagapudur (62)
- 13 Kullampalayam (87)
- 14 Akkaraivegamam (32)
- 15 Uthandiyyur (58)
- 16 Akkaraithathapalli (58) H
- 17 Ottarur (58) H
- 18 Badayagoundanur (58) H
- 19 Iyyansalai (58) H
- 20 Mettur (62) H
- 21 Bondali Thesariyur (62) H
- 22 Sennappanur (62) H
- 23 Kondi Bommanur (62) H
- 24 Vellalpalayam (94)

## Palladam taluk.

- 1 Kattur (77)
- 2 Karapalayam H
- 3 Kondarpalayam H
- 4 Thengani (86) H
- 5 Nellappalayam (50) H
- 6 Thalakkurai (101)
- 7 Garudamuthur (90) H
- 8 Arugampalayam (98) H
- 9 Senjri Ayyampalayam (98)
- 10 Palamarathupalayam (86) H
- 11 Sukkanthottam (63) H
- 12 Malayadipalayam (97) H
- 13 J. Krishnapuram (109)

## APPENDIX O—cont.

## LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62—cont.

## COIMBATORE DISTRICT—cont.

## Palladam taluk—cont.

- 14 Nandipuram (H)
- 15 Pachagoundenpalayam (101) H
- 16 Nallur (26)
- 17 Somanur (26) H
- 18 Rakkiapalayam (H)
- 19 Paramasivampalayam (H)
- 20 Kazhuveripalayam (94) H
- 21 Vellappagoundanpudur (90) H
- 22 Velampalayam Palladam N (U) (63) H
- 23 Kammalipatty (95) H
- 24 Varappalayam (95) H
- 25 Kullampalayam (94) H
- 26 Muthur (94) H
- 27 Kosavampalayam (94) H
- 28 Kariumpalayam (101) H
- 29 Chinnamanickenpalayam (102) H
- 30 Mullanur (102) H
- 31 Sellampalli (102) H
- 32 Kasipalayam (26) H
- 33 Kallivelampatty (53) H
- 34 Karumburavipalayam (93) H
- 35 Mandipalayam (Malai) (93) H
- 36 Kalarvali (3) H

## Pollachi taluk.

- 1 Manjanaickenur (137) H
- 2 Karianchettipalayam (120)
- 3 Palaimalainallur (97) H
- 4 Muthugoundanur (9) H
- 5 Bodipalayam (78)
- 6 Orakkaliyur (87) H
- 7 Sattakosalpudur (9) H
- 8 Nallathukuli (75)
- 9 Sengathurai (77) H
- 10 Sirukulandal (21)
- 11 Jothampatti (43) H
- 12 Manakkadavoo (76)
- 13 Meenakshipuram (93) H
- 14 Devansapudur (H)
- 15 Seelakkampatti (85)
- 16 Malayandipatanam (90)
- 17 Kongalappampalayam (108)
- 18 S. Ponnapuram (110)
- 19 Emmegoundenpalayam (20) H
- 20 Chinnanagammam (42)
- 21 Uthavipalayam (42) H
- 22 Nagoor (36) H
- 23 Mettubavi (8)
- 24 Vellagoundenpudur (8) H
- 25 Thondamuthur (123)
- 26 Ponnandagoundanur (123)

## Udumalpet taluk.

- 1 Appiliapatti (6) H
- 2 Narasingapuram (35) H
- 3 Krishnapuram (63) H
- 4 Sengandipudur (35) H
- 5 Masagoundanpudur (18) H
- 6 Varadarajapuram (21) H
- 7 Bathrakalipudur (18) H
- 8 Papankulam (73)
- 9 Ramalingapuram (22) H
- 10 Ulappagoundenpatti H
- 11 Dasarpatty (South) H

## KANYAKUMARI DISTRICT.

## Agastheeswaram taluk.

- 1 Pallikulamoheri 1-1-9-24)
- 2 Karayankuzhi (1-1-6-10)
- 3 Karayankuzhiheri (H)
- 4 Chidambarampuram (1-1-6-15)
- 5 Mahavila (1-1-6-16)
- 6 Narayanputur (1-1-4-4)
- 7 Padmanabanputhur (1-1-4-6)
- 8 Puliyankulamcheri (1-1-3-30)
- 9 Athikattuville (1-1-9-38)
- 10 Keshakattuville (1-1-38)
- 11 Melakrishnaputhur (1-1-9-49)
- 12 Achankulam (1-1-2-17)
- 13 Putheriparayadi (1-1-16-8)
- 14 Pallanthurai (1-1-9-43)
- 15 Ilanthavila (1-1-9-42)
- 16 Panankottanvila (1-1-9-41)
- 17 Chothavila (1-1-9-17)
- 18 Kurunchalivanvila (1-1-9-44)
- 19 Malayanachankudiyiruppu (1-1-9-18)
- 20 Keshakrishnaputhur (1-1-9-50)
- 21 Thokkukundal (1-1-1-3)
- 22 Marukalthaischeri (1-1-6-18)
- 23 Theruchari (1-1-5-19)
- 24 Athanimarkulamcheri (1-1-5-14)
- 25 Pottakulam (1-1-1-31)

## Kalkulam taluk.

- 1 Valavachagoshtam (1-3-8-4)
- 2 Melkekuzhikkode (1-3-8-8)
- 3 Kizhakkedkuzhikkode (1-3-8-9)
- 4 Managarai (1-3-5-12) H
- 5 Poochathavilai (1-3-5) H
- 6 Pattanvilai (1-3-3-40) H
- 7 Choramangalam (1-3-2-2)
- 8 Azhakarparai (1-3-2-28)
- 9 Kunnakadu (1-3-2-29)
- 10 Mathuravi (1-3-2-30)
- 11 Vembadivilai (1-3-6-5) H
- 12 Vattavilai (1-3-7-2) H
- 13 Melaparai (1-3-5-12) H
- 14 Vembadivillai (1-3-6-5) H
- 15 Vattavillai (1-3-7-2) H
- 16 Kottamavur (1-3-14-2) H
- 17 Keezhakaruppucalo (1-3-4-19)
- 18 Keeshamoola hal (1-3-11-17)
- 19 Keeshikarai (1-3-6-6)
- 20 Kumarapuram (1-3-12-11)

## Thovalur taluk.

- 1 Kumarapuram (1-2-3-28)
- 2 Pandarapuramkudiyiruppu (1-2-3-17)
- 3 Pavvathiputhur (1-2-8-10)
- 4 Chenthovalakudiyiruppu (1-2-8-12)
- 5 Ananthapadmananthapuram (1-2-8-9)
- 6 Seetapal or Sreepadmanabanallur (1-2-8-3)

## MADURAI DISTRICT.

## Dindigul taluk.

- 1 Kuddam 2 (22)
- 2 Karattupatty (22) H
- 3 Kuthiankottai (23)
- 4 Sukkampatty (122) H

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE  
YEAR 1961-62—cont.

## MADURAI DISTRICT—cont.

## Dindigul taluk—cont.

- 5 Dasaripatty H
- 6 Perumalgoundanpatty (34) H
- 7 Pudupatty (44) H
- 8 Eruthappampatty (31) H
- 9 Annampatty (31)
- 10 Mougampatty (39) H
- 11 Achanampatty (31) H
- 12 Devanayagampatty (22) H
- 13 Nandanampatty (80) H
- 14 Kottampatty H
- 15 Valayapatty (22) H
- 16 Sikkurampatty H
- 17 Arasamarathupatty (38) H
- 18 Vaivasapuram (33) H
- 19 Sunduvalli (33) H
- 20 Alagupatty (53)
- 21 Theppakulathupatty (53) H
- 22 Tirumanampatty (53) H
- 23 Silvampatty (54)
- 24 Kalanampatty (54) H
- 25 Achurajapatty (88) H
- 26 Alagampatty (88) H
- 27 Malayapatty (88) H
- 28 Nayagokottai (33)
- 29 Ammasamuthram (33) H
- 30 Senkottanipatti (33) H
- 31 Thottamuthu (105)
- 32 Nallanaiickenpatty (105) H
- 33 Kurumbapatty (78) H
- 34 Sennamanaiickenpatty (69) H
- 35 Alagarsingampatty (69) H
- 36 Palacottai (69) H
- 37 Pillayamatham (Pillarnatham) (69) H
- 38 Songulathupatty (61) H
- 39 Rasipalayam (23) H
- 40 Kasipuram (17) H
- 41 Thirumanikapuram (17) H
- 42 Vangalapuram (17) H
- 43 Ranganathapuram (17) H
- 44 Mettupatty (17) H
- 45 Ramalingapuram (23) H
- 46 So'kkrappatty (23) H
- 47 Kurumalapatty (40) H
- 48 Sowdagoundampatty (41) H
- 49 Kindampatty (40) H
- 50 Mallypuram (100) H
- 51 Taththanur (100) H
- 52 Surakkapatty (94) H
- 53 Kunjeeveeranpatty (37) H
- 54 Nathapatty (36)
- 55 Devinaickenpatty (36) H
- 56 Mullampatty (41) H
- 57 Othapatty (11) H
- 58 Aranmanaiyur (57) H
- 59 Maravapatty (40) H
- 60 Savariapatty (40) H
- 61 Kumbapatty (40) H

## Kodaikanal taluk.

- 1 Vilpatti (2)

## Madurai taluk.

- 1 Edayapatti (134)
- 2 Porusapatti (45)
- 3 Pattarman H

## MADURAI DISTRICT—cont.

## Madurai taluk—cont.

- 4 Thattampatti H
- 5 Solampethi (112) H
- 6 Mangalapuram (112) H
- 7 Malayalathampatti (112) H
- 8 Nelliendalpatti (112) H
- 9 Veerapandi (55)
- 10 Chettikulam (56)
- 11 Tirumalpuram (56) H
- 12 Oomachikulam (56) H
- 13 Alathur (75)
- 14 Koolapandi (47)
- 15 Kodimangalam (51)

## Melur taluk.

- 1 Narasingampatti (80)
- 2 Soonsakundu (72)
- 3 Kallampatti (71)
- 4 Vinayagapuram H
- 5 Therallamoor (97) H
- 6 Sorikulipatti (103)
- 7 Roddiapatti (39)
- 8 Vahipatti H
- 9 Arittapatti (70)
- 10 Ayyampatti (30) H
- 11 Perumalpatti (80) H
- 12 Chinnaperampatti (80) H
- 13 Lingavadi (34)

## Nilakottai taluk.

- 1 Bodikamanvadi (27)
- 2 Sundararajapuram (2) H
- 3 Thathukkapatty (13) H
- 4 Michaelpatty H
- 5 Kannasariapatty H
- 6 Nattakaranpatty H
- 7 Puthur H
- 8 Vellavampatti (82)
- 9 Periakulam H
- 10 Pudupatti (58) H
- 11 Manickampatti (81)
- 12 Bomminaiickenpatti (81) H
- 13 Pommampatti (53) H

## Palani taluk.

- 1 Anuprapatty (100) H
- 2 Vannrapatty (75) H
- 3 Chinnamandavadi (33) H
- 4 Saravannapatti (37) H
- 5 Pothupatti (43) H
- 6 Sengathupundur (55) H
- 7 Kalanjipatti (70)
- 8 Aramanaivalasu (31) H
- 9 Ellapatty (47)
- 10 Parapatty H
- 11 Krishnapuram H
- 12 Devathur (53)
- 13 Perumalnaiickenvalasu H
- 14 Kappiliapatty (61)
- 15 Kullaveeranpatty H
- 16 Palamarathukottai (42)
- 17 Thalakeruthanaickenpudur (101) H

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE  
YEAR 1961-62—cont.

## MADURAI DISTRICT—cont.

## Palani taluk—cont.

- 18 Athappampatti (212)
- 19 Ayyampalayam (327)
- 20 Thuraiyur (47) H
- 21 Ellapatti (36) H
- 22 Periamottanuthur (59) H
- 23 Chinnamottanuthur (59) H
- 24 Othayur (31) H
- 25 Sonaigoundenpudur (31) H
- 26 Sangampalayam (19) H
- 27 Nallatampatty (41) H
- 28 Pachinaickenpatty (41) H
- 29 Muthunaickenpatty (57) H
- 30 Sukkampatty (57) H
- 31 Sundakkattupudur (57) H
- 32 Puliyurnatham (57)
- 33 Palayapatty (57) H
- 34 Payel Naickenpatty (70) H
- 35 Samiyadipudur (22) H

## Periyakulam taluk.

- 1 Velayuthapuram (68) H
- 2 B. Ammapatti (42)
- 3 Sundararajapuram H
- 4 Keelachokkanathapuram (37) H
- 5 Lokshminaiickenpatti (80) H
- 6 Gullapuram (21)
- 7 Karisalpatti (33) H
- 8 Asaripatti (55) H
- 9 Koppayampatty H
- 10 Nagalagoundapatti H
- 11 Chinnahalapuram Poosarigoundenpatti (104)
- 12 Eluvannampatti H
- 13 Varadarajapuram H
- 14 Kamarajapuram H
- 15 M. Perumalpatti (102) H
- 16 Athangarapatti (68) H
- 17 Duraisamipuram H
- 18 Kupinaickenpatti H
- 19 Naranapuram H
- 20 Lakshminipuram H
- 21 Kothapatti (60)
- 22 Kothinarasasingapuram H
- 23 Varadarajapuram H
- 24 Kothapatti
- 25 Thirumalpuram (33) H
- 26 Sankarapuram (71)
- 27 Periyasamipuram (71) H
- 28 Rajadhani (66)
- 29 Keerapothampatti (55) H
- 30 Erasakkanaickenur (105)

## Thirumangalak taluk.

- 1 Muruganeri (275)
- 2 Koodakovil (181)
- 3 Ayyampalayam (169) H
- 4 Annaikarapatty H
- 5 Lakshminipuram (221)
- 6 Kunjapatti (211) H
- 7 Karaikeni (228)

## THE NILGIRIS DISTRICT.

## Coonoor taluk.

- 1 Kurukuthy H
- 2 Iruppukallu H
- 3 Toothathamukai (6) H
- 4 Kagula, Mel (4) H
- 5 Kagula, Kil (3) H
- 6 Sulligudu (3) H
- 7 Avayatti H
- 8 Bannrudi (4) H
- 9 Kottanallah (3) H

## Gudalur taluk.

- 1 Nelliyalam (4)
- 2 Kottanalli (4) H
- 3 Panimulai (5)
- 4 Mukkur (5) H
- 5 Manali (6) H
- 6 Pandalur (4) H
- 7 Chevambadi (3) H

## NORTH ARCOT DISTRICT.

## Arkonam taluk.

- 1 Chinnavylambadi (34) H
- 2 Vaniampet (12) H
- 3 Thuraiperumbakkam (118)
- 4 Paranj (19)
- 5 Seyyur (47)
- 6 Peraper (83)
- 7 Mahanipet (109)
- 8 Chitteri (37)
- 9 Booraga Mottur (19) H
- 10 Jadarikuppam H
- 11 Kilkandigai (37) H
- 12 Muthumarinkandigai H
- 13 Peria Mottur H
- 14 Chinnaparavathur (14)
- 15 Vedanthangal (80) H
- 16 Palaya Ochalum (61) H
- 17 Chinnaparavadhur H
- 18 Ayapadu (18)
- 19 Mathavadi H
- 20 Chinnamothur (19) H
- 21 Athur (48)
- 22 Gudalore (33)
- 23 Gangai Mottur (33) H
- 24 Mosur (30)
- 25 Kannigapuram (47) H
- 26 Cheri (108)
- 27 Uppacanthengal (108) H
- 28 Ayyampet (108) H

## Arni taluk.

- 1 Devangapuram (15) H
- 2 Mannaiickenpalayam H
- 3 Rahimanpettai or Rahimanpet H
- 4 Reddipalayam H
- 5 Somanthangal (61) H
- 6 Mullandram (21) H
- 7 Gurukulam (21) H
- 8 Kottankudisai H

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE  
YEAR 1961-62—cont.

## NORTH ARCOT DISTRICT—cont.

## Arni taluk—cont.

- 9 Kollukaranthopu H
- 10 Singarathope H
- 11 Vettiyantholuvam (28)
- 12 Viduvanthangal (31) H
- 13 Ottugudisai H
- 14 Edirathope (5) H
- 15 Kammampettai H
- 16 Alanthangal (27)
- 17 Krishnapuram H
- 18 Vadakkumedu (52) H
- 19 Puttur
- 20 Bommaroddithangal H
- 21 Mottagoundanpatti H
- 22 Omathangal H
- 23 Nelvayapalayam (Nelvoy) (130)
- 24 Marudesi (93)
- 25 Alampuravadi (95)
- 26 Poondi (92)
- 27 Fakridarga (Fakrithangul) 94 H
- 28 Irumbadu (94)
- 29 Alagusenai (4)
- 30 Punalpadi (124)

## Shengam taluk.

- 1 Malaimanjanur (126)
- 2 Puttur H
- 3 Malayanur or Malayanur Chekkadi (149)
- 4 Bondai (155)
- 5 Lambadithanda
- 6 Chandagoundanoor
- 7 Narayanakuppam (154)
- 8 Appanaickenpalayam
- 9 Tharadapattu (103)
- 10 Kannakandal (103) H

## Cheyyar taluk.

- 1 Pillandi
- 2 Pulindai (64)
- 3 Konamadai (22) H
- 4 Kurumbur (160)
- 5 Kuppam H
- 6 Kalpattu (14) H
- 7 Aradrivellur (66)
- 8 Kilkolathur (174)
- 9 Sendamangalam (173) H
- 10 Velanallur.

## Gudiyatham taluk.

- 1 Thummalabavi (11)
- 2 Bathalapalli (23) H
- 3 Ramapuram (25) H
- 4 Rajakoil (54) H
- 5 Govindapuram (55) H
- 6 Bakkalapalli (42) H
- 7 Maganampalli (146) H
- 8 Kottamedu or Patanam (46) H
- 9 Kammampalli (H)
- 10 Veduganthangal (63)
- 11 Chengalvarayampattarai (167) H
- 12 Vannayanathapuram (145) H
- 13 Pulaneri H

## NORTH ARCOT DISTRICT—cont.

## Gudiyatham taluk—cont.

- 14 Mogalore H
- 15 Bathalapalli (77)
- 16 Kilmottur (39) H \*
- 17 Periapudur H \*
- 18 Nannaigoundenpatty (20) H
- 19 Abbugoundarpatty H
- 20 Kariagounderpatty H
- 21 Mangaigounderpatty H
- 22 Ragunathapuram (146) H
- 23 Thettithurai Mottur (44)
- 24 Kamalapuram (44) H
- 25 Ottakudisai H
- 26 Kakkathoppu (88) H
- 27 Thondantholasi (31)
- 28 New Thondantholasi (31) H
- 29 Oddapalayam (31) H
- 30 Parasannapalli (155)
- 31 Kadavalam (154)
- 32 Thattapara (154) H
- 33 Machanur (22)
- 34 Nagal (20)

## Polur taluk.

- 1 Murugappadi (64)
- 2 Bagmarpat (64) H
- 3 Vinnuvambattu H
- 4 Iyakolathur (73)
- 5 Vadavilappakkam (126) H
- 6 Pathirampattu H
- 7 Manickanvalli (77)
- 8 Idainagaram (1397)
- 9 Poonianthangal (135) H
- 10 Thuluvapushpagiri (18)
- 11 Narayanapuram H
- 12 Reddipalayam H
- 13 Rangapuram H
- 14 Kannikapuram H
- 15 Odalavady (58)
- 16 Mettukudisai H
- 17 Sanarthope H
- 18 Pallachery
- 19 Pathiavaram
- 20 Rathinapuri (16) H
- 21 Nammiyandal (74) H
- 22 Ariyathur (56)
- 23 Pettai (47) H

## Tirupattur taluk.

- 1 Narayanapuram (119)
- 2 Javathiramasamudram (119) H
- 3 Peddamottur (48)
- 4 Venkatesarajapuram
- 5 Paramuthampatti (153) H
- 6 Pasalaikuttai (150) H
- 7 Rachangulam (136)
- 8 Rachamangalam (136) H
- 9 Govindapuram (12) H
- 10 Kanavapudur H
- 11 Oddathen H
- 12 Kothur (57)
- 13 Somagoundanur H
- 14 Ponnaliyur H
- 15 Kondikinthanapalli H

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE  
YEAR 1961-62—cont.

## NORTH ARCOT DISTRICT—cont.

## Tirupattur taluk—cont.

- 16 Palayavoor H
- 17 Bommaponda
- 18 Bomnikuppam (148)
- 19 Jonrampalli H
- 20 Pakirigoundanur (149)
- 21 Thathavilli (161)
- 22 Krishnapuram H
- 23 Chinnasamudram (162) H
- 24 Girisamudram (16)
- 25 Purushoththamankuppam H
- 26 Kavapattarai (158) H
- 27 Balinaickanur H
- 28 Kalathur H
- 29 Periasamudram (162) H
- 30 Sundarapalli (122)
- 31 Vellankuttai (184)
- 32 Maratipalayam (184) H
- 33 Nimiyanbattu (183)
- 34 Avalnaickanpatti (120)
- 35 Nanveri (184) H
- 36 Chinnamottur (43)
- 37 Krishnapuram (121)
- 38 Pudur (43) H
- 39 Chinnakallapatti (44)
- 40 Pakkitharakka (70) H
- 41 Mottur (121) H

## Thiruvannamalai taluk.

- 1 Vanianthangal
- 2 Kiliapet (82)
- 3 Kunnampuraji
- 4 Devanambatti (28)
- 5 Kattuputhur (29)
- 6 Kottumalayam (66)
- 7 Mallappanaickenpalayam (14)
- 8 Puduyalayam H
- 9 Manjampoondi (101)
- 10 Muniappanthangal H
- 11 Somasipady (73)
- 12 Pudur (86)
- 13 Kariyondal (Inam) (86)
- 14 Muniyandal H
- 15 Chatram H
- 16 Mallappambady (78)
- 17 Sanarpalayam H
- 18 Veluganandal (12)
- 19 Karapallam H
- 20 Avanji (70)
- 21 Kummarakudi (70) H
- 22 Arjunapuram (70) H
- 23 Kalatheri (71)
- 24 Mattapara (13) H
- 25 Periakilambady (3)
- 26 Vadakaringalipadi (27)
- 27 Kusalpattai H
- 28 Pattathangal H
- 29 Kannapandal (160)
- 30 Madupattu (159)
- 31 Saminathapuram (35) H
- 32 Sirikilambadi (4)
- 33 Samipoondi (131)
- 34 S. Nammiyandal (74)

## NORTH ARCOT DISTRICT—cont.

## Vellore taluk.

- 1 Devikapuram (37) H
- 2 Koneri Councenkovattai (119) H
- 3 Unai (47)
- 4 Kilmottur H
- 5 Melmottur H
- 6 Chinna Unai H
- 7 Venkatasami Reddiyar H
- 8 Ansicut (49)
- 9 Chinna ansicut H
- 10 Chinnagananallur H
- 11 Nammakarampatti H
- 12 Kullapanur H
- 13 Reddiyar (48) H
- 14 Vaniyambadi (48)
- 15 Kalanipakkam (5)
- 16 Bhomanathapuram (5) H
- 17 Nemandapuram (119)
- 18 Budur (51)
- 19 Pudupalayam (51) H
- 20 Sikkipalayam (51) H
- 21 Oosoor (30)
- 22 Rajapalayam (30) H
- 23 Oosurcheri (30) H
- 24 Puthur (29)
- 25 Nattamangalam (29) H
- 26 Narasingapuram (29) H
- 27 Echangadu (29) H
- 28 Eriyur (120) H
- 29 Ramapuram (94)
- 30 Kattupady (94) H
- 31 Chinnathellur H
- 32 Kattupakkam H
- 33 Thampalayam H
- 34 Thellar R
- 35 Veerareddipalayam H

## Walajapet taluk.

- 1 Senginaickenpalayam H
- 2 Pothunaidupalayam H
- 3 Nadupothunaidupalayam H
- 4 Thimmasanapalli H
- 5 Pudur H
- 6 Veeranthangal (374) H
- 7 Bodireddyur (395) H
- 8 Echangadu H
- 9 Senganavaram (145)
- 10 Rendadi (31)
- 11 Kondapuram (31) H
- 12 Puliamangalam H
- 13 Chekkadikuppam (30)
- 14 Abdulapuram H
- 15 Mannarkanoor (31) H
- 16 Kumarakunta (3) H
- 17 Madar Sayabu Kandigai H
- 18 Keerasathu (3)
- 19 Milagakkuppam H
- 20 Theeyarkuppam H
- 21 Ballavarikandigai H
- 22 Kannigapuram H
- 23 Arunthathipalayam H
- 24 Pallavarayankulam (1112) H
- 25 Mottugudisai H
- 26 Somasamudram (37)
- 27 Kalpattu (86)

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE  
YEAR 1961-62—cont.

## NORTH ARCOT DISTRICT—cont.

## Walajapet taluk—cont.

- 28 Paradarami (106)
- 29 Sathuran Poravadai H
- 30 Chengulanathan (8)
- 31 Ramapuram (8) H
- 32 Ramabathrakandagia (8) H
- 33 Kuppukarakandigai (8) H

## Wandiwash taluk.

- 1 Kodiyalam (186)
- 2 Therasapuram H
- 3 Nalleri (115)
- 4 Villuthipattu and Taluthalai (39)
- 5 Olapakka (156)
- 6 Nadupattu (39) H
- 7 Sanarpalayam (38) H
- 8 Desur (133) H
- 9 Kalyanapuram (133) H
- 10 Palagampundi H
- 11 Banambattu (111) H
- 12 Kuthambattu (96)
- 13 Kilveliyur (86)
- 14 Kondavapatti (102)
- 15 Suriyakuppam (90) H
- 16 Thangal (99) H
- 17 Chanthirambadi (23)
- 18 Kattamangalam (15)
- 19 Kovapattu (29)
- 20 Madam (130)
- 21 Solaiaruzavoor (129)
- 22 Isakalathur (128)
- 23 Aliyur (113)
- 24 Kivillivulam (142)
- 25 Thuniyampattu (117) H
- 26 Kilputhur (135)
- 27 Endal (84)
- 28 Ettithangal H
- 29 Manzanallur (78)
- 30 Gudalur (185)
- 31 Sivanam (152)
- 32 Manickamangalam (33)
- 33 Mangalam (91)
- 34 Meladurikottupakkam (111)
- 35 Vengaram (87)
- 36 Urkudi (48)
- 37 Thakkandayarapuram (59)
- 38 Kolapalur (22)
- 39 Sathanoor (28)
- 40 Avanavadi (87) H

## RAMANATHAPURAM DISTRICT.

## Arupukottai taluk.

- 1 Kurunaikulam (113) H
- 2 Keelakurunaikulam H
- 3 Chinnavallikulam (100) H
- 4 Keeppilingampatti (69) H
- 5 Solaisundampatti H
- 6 Thummachinnampatti (174)
- 7 Karunthamandam (164)
- 8 Savasapuram (141) H

## RAMANATHAPURAM DISTRICT—cont.

## Mudukulathur taluk.

- 1 Melamulimannarkottai (149)
- 2 Kottaiyur H
- 3 Keelamulimannarkottai (149)
- 4 Chitrangudi (344)
- 5 Pasumpon (314)
- 6 Kardulair (421)

## Paramakudi taluk.

- 1 Nedungulam (175)
- 2 Kandakulam (104) H
- 3 Pudukudi (171)
- 4 Urakudi (173)
- 5 Kottaiyur (57)
- 6 Pamboor (156)
- 7 Kavanoor (158)
- 8 Sabuigramam (25)

## Ramanathapuram taluk.

- 1 Devipattam (25)
- 2 Mathalatai (170)
- 3 Thinnikalam (187)
- 4 Uthirakosamangal (150)
- 5 Karondal (46)
- 6 Enmanankandan (159)
- 7 Pullendal (235)
- 8 Mayankulam (235) H
- 9 Thorakkuthavayai (107)
- 10 Elkakudi (122)

## Sattur taluk.

- 1 Rosalpatti (24)
- 2 Renganathapuram H
- 3 Kumarapuram (H)
- 4 Sukkiravapatti (72)
- 5 Naduvapatti (112) H
- 6 Vijayarangapuram (147)
- 7 Kothalauchiyapuram H
- 8 Alangulam (131)
- 9 Narikulam (164) H
- 10 E. Neddiapatti (191)
- 11 Uthupatti H
- 12 Pandiapuram H
- 13 Pudupatti or Uthandapuram H
- 14 Thottilolampatti (205)
- 15 Kanjampatti (204)
- 16 Venkatachalamapuram (204) H
- 17 Valvanapuram (135) H
- 18 Kalingamottupatti (153)
- 19 Gollapatti (154)
- 20 Padanthai (141)
- 21 Arasakudumbanpatti (49) H
- 22 Mamsapuram (154) H
- 23 Appaneri H
- 24 Elliganaiickenpatti (6)
- 25 Vadamaiaikuriolai (7)
- 26 Vachakkarpatti (79)
- 27 Thadangam H
- 28 Kudumbankulam (57)
- 29 Ramalingapuram (57) H
- 30 Neekkalakottai (64)
- 31 Karialpatti (193)

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE  
YEAR 1961-62—cont.

## RAMANATHAPURAM DISTRICT—cont.

## Sattur taluk—cont.

- 32 Shanmugarengapuram (193) H
- 33 Pandithanpatti (19) H
- 34 Sivagnanapuram (11)
- 35 Irakkangudi (152)
- 36 Nathathupatti (150)
- 37 Vadamal kuriooli (7)
- 38 Kala perumalpatti (114) H
- 39 Anaiakaripatti (157)
- 40 Alampatti (135) H
- 41 Muthilapuram (135) H
- 42 Kumarapuram (204) H
- 43 Nalli (203)
- 44 Venkatesapuram (203) H
- 45 Kasireddipatti (55)
- 46 Voerakudumbanpatti (55) H
- 47 Pattampudur (68)
- 48 Kuppampatti (68) H
- 49 Moolipatti (16)
- 50 Rangasamipuram (16) H
- 51 Chockalirapuram (16) H
- 52 Mannanaickenpatti (16) H
- 53 Sankaralingapuram (16) H
- 54 Thavasilingapuram (16) H
- 55 Maruthamatham (16) H
- 56 Endapalli (71)
- 57 Rajapatti (131) H
- 58 Sankaramurthipatti (131) H
- 59 Pallavakottai (1)
- 60 Kumarapuram (1) H
- 61 Perodarpatti (169)
- 62 Sankaralingapuram (169) H
- 63 Kosukundu (137)
- 64 Muthusamyapuram (137) H
- 65 Athipatti (137) H
- 66 Mutharpatti (137) H
- 67 Nalliyanaickenpatti (108) H
- 68 Parpakudu (124)
- 69 Ramasamyapuram (124) H
- 70 Lakshmiapuram (124) H
- 71 Kanmaiipatti or Arunachalapuram (124) H
- 72 Gpainaickenpatti (124) H
- 73 Kuppampatti (18) H
- 74 Seenalkudi (63)
- 75 Narayanaikudumbanpatti (117) H
- 76 Kothanatham (76)
- 77 Ramasamyapuram (76) H
- 78 Ramakudumbanpatti (77) H
- 79 Mamsapuram (98)
- 80 Nattaramangalam (26)
- 81 Annankoilpatti (26) H
- 82 Puthur (26) H
- 83 Rengappanaickenpatti (140)
- 84 Unjampatti (140) H
- 85 Alagapuri (140) H
- 86 Chinnasodaipatti (175)
- 87 Sevulpatti (171)
- 88 Melasirukulam (134) H
- 89 Seenalkudi (63)
- 90 Jagaveeranpatti (178)
- 91 Sankaranpandiapuram (179) H
- 92 Keelacheeram (179) H
- 93 Inamohatram (179) H
- 94 Nommanjipuram (177)
- 95 Pullagandarpatti (177) H

## RAMANATHAPURAM DISTRICT—cont.

## Sattur Taluk—cont.

- 96 Pullagandarpatti Paracheri H
- 97 Viswanathapuram H.
- 98 Velayuthapuram H.
- 99 Vallampatti H.

## Sivaganga taluk.

- 1 Mangalam or Maravamangalam (631)
- 2 Pottapalayam (262)
- 3 Kattumankottai H
- 4 Michaelpattinam (530)
- 5 Karpagavinayagapuram (531)
- 6 Vembattur (533)
- 7 Pacheri (534)
- 8 Kanoor (528)
- 9 Meenakshipuram H
- 10 Nedudai (372)
- 11 Rajagambiram (804)
- 12 Kalpiravu (804) H

## Srivilliputhur taluk.

- 1 Nellamanaickenpatti (81)
- 2 Pudur H
- 3 Vadagarai (87)
- 4 Samaikapuram (65)
- 5 Velayuthapuram (72) H
- 6 Vagankulamipatti H
- 7 Pottalapatti H
- 8 Therkulampatti H
- 9 Ramakrishnapuram H
- 10 Sankaralingapuram (80) H
- 11 Rengappanaickenpatti (80) H
- 12 Sivalingapuram (87) H
- 13 Sankarapandiapuram (65) H
- 14 Devarayanpatti H
- 15 Pomangalathupatti (80) H
- 16 Kamatchipatti (80) H

## Thirupathur taluk.

- 1 Athankaniipatti (45) H
- 2 Aralikottai (147)
- 3 Apatharanapatti (148) H

## Thiruvadanai taluk.

- 1 Vellayapuram (494) H
- 2 Urithikottai (386)
- 3 Kumaraavello (384)
- 4 Senamangalam (383)

## SALEM DISTRICT.

## Attur taluk.

- 1 Kondayampalli (108)
- 2 Navalur (95)
- 3 Vellalapatti (8)
- 4 Kamakkapalayam (87)
- 5 Agaram (87) H
- 6 Mummudi (76)
- 7 Talayuthu (70) H
- 8 Thagarapudur (108) H

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62—cont.

SALEM DISTRICT—cont.

Attur taluk—cont.

- 9 Moolapudur (108) H
- 10 Thyagarur (77)
- 11 Petvakurichi (65)
- 12 Veppamondy (98)
- 13 Thalavasal (66)
- 14 Nakhairai (66) H
- 15 Thanlanur (10) H
- 16 Panamadai (10)

Dharmapuri taluk.

- 1 Marandahally (6)
- 2 Gavenur H.
- 3 Kananur (7)
- 4 Mallapuram (120)
- 5 Vellalipatti (79)
- 6 Konampatty (79) H
- 7 Natham (79) H
- 8 Modaganur (79) H
- 9 Pudur (79) H
- 10 Andihalli (67)
- 11 Naikkankottai (57) H
- 12 Biltanur Aghraharam
- 13 Naganur (120) H
- 14 Kodihalli (122)
- 15 Poomangahally (64)
- 16 K. Pudur (7) H
- 17 Jartala (21)
- 18 Valathottakottai (37) H
- 19 Enchanahally (42) H
- 20 Muniamdukuttai (42) H
- 21 Vellankottai (42) H
- 22 Modakur H

Harur taluk.

- 1 Pudureddiur (254) H
- 2 Thillanur H
- 3 Pullampatty (142)
- 4 Bathalahally H
- 5 Devareddiur H
- 6 Vedampatty H
- 7 Kelavalli (131)
- 8 Gottipatty (131) H
- 9 Vedyur (241)
- 10 B. sinayakanahally (242)
- 11 Solakampatty (62)
- 12 Maveripatty (302)
- 13 Sellampatty (45)
- 14 Sangalahally (372)
- 15 Buldireddipatty (296)
- 16 Pulivanur (113) H
- 17 Marampatty (122)
- 18 Thirthagiri (113) H
- 19 Erumayampatty (338)
- 20 Kakkampatty (338)
- 21 Ellapudiyampatty (324)
- 22 Kelaparadi (321) H
- 23 Keerapatti (321)
- 24 Kamalampatty (331) H
- 25 Malaipatti H
- 26 Nanchampatti H
- 27 Vellalipatti (351)
- 28 Thurinjipatti (349) H
- 29 Salva Asai (349) H

SALEM DISTRICT—cont.

Harur taluk—cont.

- 30 Pethathampatty (342)
- 31 Pulithiyur (349)
- 32 Settippatty (342) H
- 33 Malapad (342) H
- 34 Kottaiyur (252) H
- 35 Nadur (252) H
- 36 Sandaiyur (252) H
- 37 Chinnthalapady (81)
- 38 Ranasamudram
- 39 Venkatasamudram (365)
- 40 Aramathupalayam
- 41 Perinthalapatti (72)

Hosur taluk.

- 1 Kulugoundapalli (86)
- 2 Balagoundapalli (82)
- 3 Madhukondapalli (103)

Omair taluk.

- 1 Pottaneri (21)
- 2 Pudur H
- 3 Ervadi H
- 4 Mookkanur (27)
- 5 Thottikanur H
- 6 Chinnathanda (13) H
- 7 Avadathur (60)
- 8 Sowriyur H
- 9 Reddiyur (27) H
- 10 Perinthanda (13) H
- 11 Thailakoundanur H

Krishnagiri taluk.

- 1 Varattanapalli (54)
- 2 Chaparty (114)
- 3 Mooravahally H
- 4 Periakuttanpatty (115) H
- 5 Kalkuttanpatty
- 6 Mallupatty (111) H
- 7 Poovathipalli (109) H
- 8 Sommandapatty (160) H
- 9 Vadamanthalam (159)
- 10 Jakkasamudram (110)
- 11 Karakkannakally (113) H
- 12 Perinthalapadi (72)
- 13 Zinkulakadirampatty (164)
- 14 Newmottor (164) H
- 15 Pomangathur (164) H
- 16 Settiyur (164) H
- 17 Chingampally (84)
- 18 Ragasamudram (84) H
- 19 Venkatasamudram (84) H
- 20 Guruvinayampalli (93)
- 21 Kompinayampalli (42) H
- 22 Kaohalinganur (42) H
- 23 Odhikuppam (42) H
- 24 Medagempalli (42) H
- 25 Sudapatti (111) H
- 26 Bikkannahally (111)
- 27 Bommanur (113)
- 28 Veppalampatty (110)
- 29 Nallapuram (120) H

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62—cont.

SALEM DISTRICT—cont.

Namakkal taluk.

- 1 Thithikulam (41)
- 2 Thottipatty (34) H
- 3 Pallakattupudur (18) H
- 4 Manickavelu (304) H
- 5 Sevagoundampalayam (24) H
- 6 Iyampalayam (215) H
- 7 Pallipatti (31)
- 8 Rasipalayam (213)
- 9 North Sethampatty H
- 10 Kattur H
- 11 South Sethampatty
- 12 Kunnathur H
- 13 Thirumalaigiri (43)
- 14 Periyakkulam (42)
- 15 Vagurampatty (156)
- 16 Vettayakavandanpudur (156) H
- 17 Elur (23)
- 18 Valayapatti (196)
- 19 Metupatty Mitta (221)
- 20 Phippavarnadevi Mitta (197)
- 21 Reddiyampatty (196) H
- 22 Vasanthapuram (124) H
- 23 Pullampatti (124) H
- 24 Vaithinathapuram (201) H
- 25 Kavakarapatty (201)
- 26 Amaleeyapalayam (206) H
- 27 Thottamadampatty (206) H
- 28 Kallamadu (23) H
- 29 Pudupettynatham (23) H
- 30 Veppampatty (23) H
- 31 Podupatty (133) H
- 32 Periapatty (133)
- 33 Ganganaickenpatti (215) H
- 34 Ariyampudur (211) H
- 35 Karayampudur (68) H
- 36 Papanaiickenpatty (68)
- 37 Ramanathapurampudur (36) H
- 38 Bommasamudram (36) H
- 39 Muthugapatty (103)
- 40 Bhimapalayam (103) H
- 41 Vadugapatty (87) H
- 42 Paraiyur (32) H
- 43 Kanjalanaikanur (32) H
- 44 Kavattupatty (32) H
- 45 Attikkadu (32) H
- 46 Kuttranunghampatty (32) H
- 47 Pairtharampudur (206)
- 48 Navaladipatty (306) H
- 49 Nochipatty (2) H
- 50 Chimthathapatty (2) H
- 51 Perithapatty (2) H
- 52 Kottur (2) H
- 53 Sinnakottai (2) H

Rasipuram taluk.

- 1 Ayilpatty (15)
- 2 Perumpalayam (32) H
- 3 Ponkurichi (54)
- 4 Periakkalpalayam (54) H
- 5 Matharuthu (21)
- 6 Peddanaickenpatty (32) H
- 7 Anaipalayam (17) H
- 8 Thatagoundanpudur (17) H
- 9 Kattipalayam (22) H

SALEM DISTRICT—cont.

Rasipuram taluk—cont.

- 10 Mangalapuram (18)
- 11 Aramathampalayampudur (39) H
- 12 Aramathampalayam (39) H
- 13 Mattavelampatty (39)
- 14 Narsikinar (19)
- 15 Kallathonkadu (32) H
- 16 Navalpatty (16)
- 17 Kattur (16) H
- 18 Udayarpalayam (17) H
- 19 Nachipatty (22)

Salem taluk.

- 1 Vadapatti (41)
- 2 Kongagillankadu (177) H
- 3 Kailasampalayam H
- 4 Soctes Nagar Harijan Colony H
- 5 Kootathupatty (24)
- 6 Karungalpatty (215)
- 7 Nirumullikuttai (28)
- 8 Palapatty (23)
- 9 Kolathukombai (27)
- 10 Nirumullikuttaipudur (28) H
- 11 Somampatty (160)

Tiruchengode taluk.

- 1 Pakkanadu (Pachakadu) H
- 2 Kannampatty H
- 3 Pakkankattur H
- 4 Pullachipatti (160) H
- 5 Kottapalayam (81)
- 6 Palamedu H
- 7 Kanagagiri (36)
- 8 Vellappankovil H
- 9 Arappullampalayam H
- 10 Vadugapalayam (160) H
- 11 Nallagoundampalayam (160) H
- 12 Karattupalayam (54) H
- 13 Velagoundampalayam (54) H
- 14 Maileripatti (8) H
- 15 Pullampatti (8) H
- 16 Mayanur (7) H
- 17 Rasinaikanur (7) H
- 18 Kattuvalavupudur (36) H

Sankari taluk.

- 1 Reddiyur (7) H
- 2 Kosavapatty (7) H
- 3 Vellalapuram (6)

SOUTH ARCOT DISTRICT.

Chidambaram taluk.

- 1 Suravilundur (271)
- 2 Vilagam (170)
- 3 Gavaraputhur (186)

## APPENDIX O—cont.

## LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62—cont.

## SOUTH ARCOT DISTRICT—cont.

## Cuddalore taluk.

- 1 Kolakudi (121)
- 2 Thiruchopuram (67)
- 3 Poondiankuppam (67) H
- 4 Mulligrampattu (208)
- 5 Kalaiyur (21)
- 6 Thandinatham H
- 7 Karumbur (173)
- 8 Sitharasur (210)
- 9 Pallavarayanatham (216)
- 10 Sembankeppam
- 11 Pethunaickenkuppam (101)
- 12 Alagianatham (24)
- 13 Sengalikuppam (56) H
- 14 Irandaiavilagam (22)
- 15 Chemappanaickenpalayam (65)
- 16 Tirupanampakkam (23)

## Gingee taluk.

- 1 Nagandur (225)
- 2 Thalavalapattu (227)
- 3 Eyyil (17)
- 4 Eradi (17) H
- 5 Appambattu (161) H
- 6 Marur (226)
- 7 Puthagaram (128)
- 8 Septai (128) H
- 9 Kappai (201)
- 10 Mavattampadi (168)
- 11 Vallam (151)
- 12 Thurampoondi (100) H
- 13 Nadupatti H
- 14 Thikkamedu (118) H
- 15 Edapattu (1)
- 16 Melaihamur (150)
- 17 Kalleri (150) H
- 18 Melvillamur (2)
- 19 Mottuvallamur (2) H
- 20 Jayankondan (165)
- 21 Narasingarayanpottai (121)
- 22 Angarayannallur (121) H
- 23 Karadikuppam (1) H
- 24 Ganapathipuram (1) H
- 25 Nowayamapuram (1) H
- 26 Palapattu (199)
- 27 Pudupattu (199) H
- 28 Kundalamattu (45)
- 29 Annakuttiamedu (16) H
- 30 Elavathavadi (45) H
- 31 Malayandapattu (45) H
- 32 Sorathur (200)
- 33 Manjalur (200) H
- 34 Konai (162)
- 35 Melpudupattu
- 36 Konmedu (192)
- 37 Melkalavai (122)
- 38 Anjancheri (134)
- 39 Perumbakkam (140)

## SOUTH ARCOT DISTRICT—cont.

## Kallakurichi taluk.

- 1 Dathathiripuram (228).
- 2 Pethasamudram (229).
- 3 Venkitampettai (H)
- 4 Vinaitanthapuram (212)
- 5 Rayappanur (225)
- 6 Mathur (111)
- 7 Ammapet (H)
- 8 Porpadakurichi (184)
- 9 Thatchur (160)
- 10 Melnariappam (224)

## Tindivanam taluk.

- 1 Thaniyal (24)
- 2 Sombakkam (3)
- 3 Meliviri (4)
- 4 Asur (77)
- 5 Kilsevu (90)
- 6 Olakkur (17)
- 7 Puliyannur (25)
- 8 Nallalam (145)
- 9 Chendur (206)
- 10 Peramandur (101)
- 11 Sirunankur (25) H
- 12 Thennalapakkam (226)
- 13 Koralar (H)
- 14 Kilnemili (96)
- 15 Vendrampoondi (96)
- 16 Taludali (228)
- 17 Ayyanthoppu (H)
- 18 Perumbakkam (230)

## Tirukoilur taluk.

- 1 Sendanadu (292)
- 2 Sithathur (46)
- 3 Kollur (77)
- 4 V. Puthur (78)
- 5 Empparai (86)
- 6 Pillayarkuppam (101) H
- 7 Vaniankuppam (191) H
- 8 Kottampalayam (191) H
- 9 Kattur (Peramanatham) (191) H
- 10 Veeracholapuram (81)
- 11 Kakakuppam (81) H
- 12 Elurperumbakkam (191)
- 13 Sarakkadamedu (H)

## Villupuram taluk.

- 1 Stro-chinnathachur (30)
- 2 Kuchipalayam (138)
- 3 Sayyaduvinnam (85) H
- 4 Melkondai (44)
- 5 Chinnababusamudram (173)
- 6 Maragathapuram (177)
- 7 Anangur (179)
- 8 Kondur (210)

## APPENDIX O—cont.

## LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING THE YEAR 1961-62—cont.

## SOUTH ARCOT DISTRICT—cont.

## Villupuram taluk—cont.

- 9 Alamarathukuppam (210) H
- 10 Pakkam (211)
- 11 Kuppumuthampalayam (196) H
- 12 Kayathar (62)
- 13 Reddikuppam (61)
- 14 Samipeettai (179) H
- 15 Veeranam (209)
- 16 Pillur (201)
- 17 Thokkavadi (161)
- 18 Mandapam (79) H
- 19 Raghavanjettai (169) H
- 20 Poonamguppam (169) H
- 21 Rajaputhrapalayam (173) H
- 22 Pannakuppam (173) H
- 23 Kongarapakondam (213) H
- 24 Periababusamudram (163)
- 25 Vanathampalayam (153) H
- 26 Viswareddipalayam (90)
- 27 Pagandai (98)
- 28 Ramayampalayam (182)
- 29 Pillayarkuppam (201)
- 30 Perumbakkam (129)
- 31 Dhalavarur (212)
- 32 Poovarasankuppam (207)
- 33 Vedambattu (130)
- 34 Krishnapuram (225)
- 35 Nathamedu (225) H
- 36 Ayampalayam (170) H

## Vridhachulam taluk.

- 1 Kothattai (281)
- 2 Siruvambar (18)
- 3 Paravalur (101)
- 4 Ko. Elamangalam (156)
- 5 Koothappangudikadu (156) H
- 6 Thittagudi (273)
- 7 Vasistapuram
- 8 Avinangudi (277)
- 9 Erraiyur (289)
- 10 Kosapallam (285)
- 11 Maligaikottan (286)
- 12 Gudalur (288)
- 13 Pothiramangalam (276)
- 14 Pattur (278)
- 15 Katchiperumanatham (66)
- 16 Thuraiyur (256)
- 17 Karaiyur (240)
- 18 Dharmakudikadu (H)

## THANJAVUR DISTRICT.

## Kumbakonam taluk.

- 1 Kamakshipuram \* (3)
- 2 Konulampallam \* (3)
- 3 Mullangudi \* (2)
- 4 Neikunnam \* (2) H
- 5 Serukadambur \* (2) H
- 6 Senganoor (33) \*
- 7 Thiruvallakudi \* (100)
- 8 Vittaloor \* (100) H
- 9 Mangudi \*

## THANJAVUR DISTRICT—cont.

## Mayavaram taluk.

- 1 Melakattalai \* (H)
- 2 Kashetrapalapuram (42)\*
- 3 Kattucheri \* (145)
- 4 Perunjeri \* (14)

## Nannilam taluk.

- 1 Adavangudi (Baragudabath) \* H

## Papanasam taluk.

- 1 Ombalapadi \* (13)
- 2 Nakkambadi \* (13) H

## Thanjavur taluk.

- 1 Veerasingampet \* (95) H
- 2 Thiruvadhikudi \* (95)
- 3 Reddipalayam \*

## TIRUCHIRAPPALLI DISTRICT.

## Alangudi taluk.

- 1 Puthambur Panchayat (3)
- 2 Puthambur non-panchayat (4)
- 3 Sembattur (1)
- 4 Rajakolathur (1) H
- 5 Poongudi (141) H
- 6 Sanivayal (5)
- 7 Mangadu (123)

## Karur taluk.

- 1 Kumarpalayam (179) H
- 2 Chinna Orathai (Punjai Thattakurichi) (11)
- 3 Emur (66)
- 4 Nadupalayam (H)
- 5 Vengakalapatty (54) H
- 6 Viraipatty (55) H
- 7 Paripatty (H)
- 8 Rajagoundanvalasu (H)
- 9 Venkatapuram (H)
- 10 Panganathapudur (11) H
- 11 Navamarathupatty (95) H
- 12 Ellaipatty (H)
- 13 Raikkakavandanvalasu (H)
- 14 Peria Seethapathy (96) H
- 15 Chinna Seethapathy (H)
- 16 Valanaickanoor (H)
- 17 Mandiyathakarai (H)
- 18 Paraiyur (H)
- 19 Maravapalayam (H)
- 20 Chinna Maravapalayam (18) H
- 21 Pudupalayam (H)
- 22 Manavady (67)
- 23 Kattalapattypudur (67) H
- 24 Ayyampalayam (67) H
- 25 Kattalapatty (67) H
- 26 Sellipalayam (67) H

\* Electrified by Licensees.

(H) Hamlets

Number within brackets indicates Code number of the village as per Census Book of 1961.

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING  
THE YEAR 1961-62—cont.

## TIRUCHIRAPPALLI DISTRICT—cont.

## Karur taluk—cont.

- 27 Vellakalmedu (5) H
- 28 Muthanoor (5) H
- 29 Goundanpudur (5) H
- 30 Thannasigoundampudur (18) H
- 31 Othayur (18) H
- 32 Noyyal (5) H
- 33 Royagoundanpudur Alampalayam (24) H
- 34 Pudupatty (96) H
- 35 Malaipatti (96) H
- 36 Varapatti (96) H
- 37 Pudur (11) H
- 38 Muthugoundanur (79) H
- 39 Vellianai South (79) H
- 40 Ellapatti (95) H
- 41 Marudampatty (67) H
- 42 Mamarathupatty (79) H
- 43 Devanagoundanur (79) H
- 44 Inam Karur (49) H
- 45 Chinnakulathupalayam (49) H
- 46 Periakulathupalayam (49) H
- 47 Nallasellipalayam (67) H
- 48 Arikaranpalayam (49) H
- 49 Seethapatty (66) H
- 50 Sinnathambipalayam (67) H
- 51 Periasethapatty (96) H
- 52 Kottapatty (96) H
- 53 Inanganur (94) H
- 54 Valampudur (79) H
- 55 Katterigoundanur (79) H
- 56 Rangapalayam (68) H
- 57 Nadayanoor (5) H
- 58 Pachapatty (79) H
- 59 Manjanur (202) H
- 60 Pasupathipalayam (202) H
- 61 Uppupalayam (202) H
- 62 Kandaswamyvalam (202) H
- 63 Reddivalas (202) H
- 64 Noohikattuvalasu (202) H
- 65 Kumarapalayam (202) H
- 66 Karunsellapalayam (202) H
- 67 Thottampatty (202) H
- 68 Munnur (202) H
- 69 Molapalayam (24) H
- 70 Subbarayapudur (24) H
- 71 Perumalpalayam (24) H
- 72 Vellampalayam (24) H
- 73 Maragathapuri (24) H
- 74 Athipalayam (24) H
- 75 Chinnavadugapatti (29) H
- 76 Periaavadugapatti (29) H

## Kulathur taluk.

- 1 Kulathur (94)
- 2 Kalamavur (38)
- 3 Andakkulam (non-panchayat) (110)
- 4 Elayavayal (94) H
- 5 Mathiyamallur (138)
- 6 Panavayal (110) H
- 7 Paravagal (110) H
- 8 Pillyarkovilpatti (110) H

## Kulathur taluk—cont.

- 9 Padukudiyampatti (110) H
  - 10 Ayavayal (110) H
  - 11 Vaithur (132) H
  - 12 Ariyur (139)
- Kulithalai taluk.*
- 1 Kuruvikulathupatty (62) H
  - 2 Ayyampalayam H
  - 3 Vaisyampatty (120)
  - 4 Vairampatty (120) H
  - 5 Kidangudi H
  - 6 Sevalpatti (213)
  - 7 Semman patti H
  - 8 Molur (206)
  - 9 Keelapaguthy (65)
  - 10 Chinthamanipatty H
  - 11 Ellaiammankoilpatty (120) H
  - 12 Mylampatti (65) H
  - 13 Kindangudinaickannur (120) H
  - 14 Othaireddiyur (120) H
  - 15 Thandakavanur (120) H
  - 16 Kovilpatti (120) H
  - 17 Elangakurichi (121) H
  - 18 Manikkattiyur (87) H
  - 19 Tharagampatty (65) H
  - 20 Viduthalampatty (100) H

## Lalgudi taluk.

- 1 Vathalai Gudalur (H)\*
- 2 Valaiyur (4)\*

## Musiri taluk.

- 1 Bagerpettai (1) H
- 2 Murungapatty or Thalugai (1)
- 3 Kidaram (86)
- 4 Gundangalpalayam (86) H
- 5 Melur (H)
- 6 Surampatty (H)
- 7 Sirunavalur (20)\*
- 8 Reddipatti (H)\*
- 9 Vellalapattipudur (1) H
- 10 Nallappanaickenpatti (H)

## Perambalur taluk.

- 1 Poolambadi (9)
- 2 Kadambur (9) H
- 3 Boomanapadi (93)\*

## Tiruchirappalli taluk.

- 1 Puthur (H)\*
- 2 Peria Alampatti (H)\*
- 3 Ennai (117)

## Tirumayam taluk.

- 1 Kovanur (34)
- 2 Vangalur (123) H
- 3 Thirukadambur (116)
- 4 Thevampatti (96) H
- 5 Peyyamaipatti (96) H
- 6 Melpamalyur (39) H
- 7 Varpet (96) H

(H) Hamlets.

\* Electrified by Licenses.

Number within brackets indicates Code number of the village as per census book of 1961.

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED DURING  
THE YEAR 1961-62—cont.

## TIRUCHIRAPPALLI DISTRICT—cont.

## Udayarpalayam taluk.

- 1 Chinnavelayam (77) H

## TIRUNELVELI DISTRICT.

## Ambasamudram taluk.

- 1 Pudupatti (7)
- 2 Kasinathapuram H
- 3 Marudamputhur (8)
- 4 Seevalasamudram H
- 5 Mettur (H)

## Koilpatti taluk.

- 1 Therkuvandanam (178)
- 2 Vadakkuvandanam (148)
- 3 Kelachaitalai (233) H
- 4 Keelakarandai (12)
- 5 Shengkottai (23)
- 6 Kailasapuram (260) H
- 7 Melakaranthai (11)
- 8 Kulathur (239) H
- 9 South Pannaiyur (239) H
- 10 North Pannaiyur (230) H
- 11 Kumarapuram (60) H
- 12 Pattithavanpatti (24)
- 13 Sevalarpatty (7)
- 14 Muthusamipuram (6)
- 15 Subbalpuram (7) H
- 16 Melapatty (7) H
- 17 North Muthiahapuram (6) H
- 18 Mettilpatti (3)
- 19 Soorappanaickenpatti (3) H
- 20 Pommalkoilpatti (3) H
- 21 Duraisamypuram (206)
- 22 Voppalodai (258)
- 23 Pandiapuram (258) H
- 24 Kaluakkachalapuram (258) H

## Nanguneri taluk.

- 1 Viswanathapuram (112) H
- 2 Maharajapuram H
- 3 Solaiipudur (H)
- 4 Thulukkarpatty (64) H
- 5 Thalaimanmai H
- 6 Anachiarkoilcheri (69) H
- 7 Udayathur (101)
- 8 Kamakkudy (101) H
- 9 Therkuvallioor (69)
- 10 Sivasubramaniapuram (111) H
- 11 Inam Mahadevankulam (87) H
- 12 Valliammalpuram (71) H
- 13 Ashagappapuram (89) H
- 14 Keerkulam H
- 15 Nambiyuthu H
- 16 Nambiyuthu Cheri H
- 17 Krishnapuram (93) H
- 18 Madanadarkudiyiruppu H
- 19 Puthiamputhur H
- 20 Athukurichi (101) H

## TIRUNELVELI DISTRICT—cont.

## Nanguneri taluk—cont.

- 21 Pragarapuram H
- 22 Alaganapuram H
- 23 Chithambapuram H
- 24 Pullamangalam (110) H
- 25 Soundarapandiapuram (74)
- 26 Ottakaramkudiyiruppu (71) H
- 27 Devanallur (13)
- 28 Perumalkulam (13) H
- 29 Kodankulam (22) H
- 30 Devanallur Marakudy (13) H
- 31 Seethappanallur (30)
- 32 Karaithuttuputhur (104)
- 33 Chockalingapuram (104) H
- 34 Pulimankulam (104) H
- 35 Avadayalpuram (104) H
- 36 Chennamalapuram (104) H
- 37 Sangamankulam (61) H
- 38 Sivakamipuram (67) H

## Sankarankoil taluk.

- 1 Subramaniapuram (9) H
- 2 Po umalpatti (6)
- 3 Salasari (6) H
- 4 Reddiapatti (10) H
- 5 Sendamangalam (111) H
- 6 Kadambankulam (111) H
- 7 Andinadanur (126) H
- 8 Ulagalpuram (H)
- 9 Perumkottur (68)
- 10 Thirumalapuram (111) H
- 11 Veerasingamoni (105)
- 12 Pandapalli (10)
- 13 Ariyanayagipuram (96) H
- 14 Arunachalapuram (96) H
- 15 Periarajasamipuram (96) H

## Sencottai taluk.

- 1 Tiruvottiyoor (7-4-7) H
- 2 Poolankudiyiruppu (2-4-1-7)
- 3 Lalakudiyiruppu (2-4-1-7)
- 4 Thevanur (2-4-1-7)
- 5 Veppanpuncheri (2-4-2-2)
- 6 Karkudu (2-4-2-3)
- 7 Kesavapuram (2-4-2-4)
- 8 Angankoladiparacheri (2-4-3-1)
- 9 Therkumedu Bakavathipuram (2-4-3-7)
- 10 Puliyarai (2-4-3-3)
- 11 Mylappapuram (2-4-3-4)
- 12 Kesavapuram (2-4-4-1)
- 13 Pathur (2-4-4-2)
- 14 Iravivarmapuram (2-4-4-3)

## Srivaikundam taluk.

- 1 Kalvoi (109)
- 2 Kilakulam (107) H
- \*3 Karungulam
- 4 Thiruvarangampatti (108) H
- 5 Melathattaparai (9)
- 6 Adalikulam (92) H
- 7 Gettibomuranpuram (92) H
- 8 Ariyanagosapuram (92) H

\* Electrified Licenses.

(H) = Hamlets.

Number within brackets indicates code number of the village as per census book of 1961.

## APPENDIX O—cont.

LIST OF VILLAGES AND HAMLETS ELECTRIFIED  
DURING THE YEAR 1961-62—cont.

## TIRUNELVELI DISTRICT—cont.

## Tenkashi taluk.

|    |                               |
|----|-------------------------------|
| 1  | Pethanadarpatti (91)          |
| 2  | Murugankurichi H              |
| 3  | Chithiraputhiranadanur H      |
| 4  | Pattallor (H)                 |
| 5  | Sivasamipuram (77) H          |
| 6  | Vadakkuchinnadanadanur (92) H |
| 7  | Saladiyur (H)                 |
| 8  | Chellathayarapuram (91) H     |
| 9  | Gurukkappuram H               |
| 10 | Karisalur H                   |
| 11 | Molakrishnapuri (93)          |
| 12 | Kulayaneri (29)               |
| 13 | Melamangalapuram (76) H       |
| 14 | Ramanahandrapattinam (85) H   |
| 15 | Mallariappapuram (90) H       |
| 16 | M. dathur (84) H              |
| 17 | Venniyur (85) H               |
| 18 | Kandamangalam (76) H          |
| 19 | Pulichakulam H                |
| 20 | Marandai (98)                 |
| 21 | Kalangathakandi (38) H        |
| 22 | Chinnathambinadanur (19) H    |
| 23 | Sadiyappapuram (58) H         |
| 24 | Sivagnanapuram (58) H         |
| 25 | Avadayanur (92)               |
| 26 | Santhamakkumrapatti (92) H    |
| 27 | Thathirappapuram (92) H       |
| 28 | Modakkannupatti (92) H        |
| 29 | Vaittilangapuram (92) H       |
| 30 | Podiyanoor (92) H             |
| 31 | Arriyappapuram (92) H         |
| 32 | Sevasailanoor (92) H          |
| 33 | Modarayapuram (92) H          |
| 34 | Malairudipatti (94) H         |
| 35 | Rehmanapuram (84) H           |
| 36 | Kanakkanadanur (84) H         |
| 37 | Vaikalaipatti (1) H           |
| 38 | Navaneethakrishnapuram (91) H |
| 39 | Boopalasamudram (91) H        |
| 40 | Ilangapuri (91) H             |
| 41 | Meenakshipundarapuram (91) H  |
| 42 | Kamarajanagar (91) H          |
| 43 | Solaiyuthur (77) H            |
| 44 | Adaikalapuram (77) H          |
| 45 | Alagapuri (96) H              |
| 46 | Sivashapuram (96) H           |
| 47 | Asirvathapuram (96) H         |
| 48 | Magilvamanathapuram (91) H    |

## Tiruchendur taluk.

|    |                       |
|----|-----------------------|
| 1  | Lakshmipuram (71)     |
| 2  | Alliammalpuram (79) H |
| 3  | Aladithattu (79) H    |
| 4  | Muthukrishnapuram (H) |
| 5  | Athikadu H            |
| 6  | Shanmugapuram H       |
| 7  | Kadakkapuram H        |
| 8  | Seerkatch (64) H      |
| 9  | Thandapathur (64) H   |
| 10 | Adaikalapuram (80) H  |
| 11 | Mainapatti (64) H     |
| 12 | Pichivilai (46) H     |

## Tiruchendur taluk—cont.

|    |                           |
|----|---------------------------|
| 13 | Rajapatty (10)            |
| 14 | Manathi (10) H            |
| 15 | Thiruvilayavattam (10) H  |
| 16 | Sollikurichi (10) H       |
| 17 | Karavilai (10) H          |
| 18 | Sethukovaitan (11)        |
| 19 | No. Juvargarai (11) H     |
| 20 | Karungadal (54)           |
| 21 | Pullankulam (54) H        |
| 22 | Ilamakkulam (54) H        |
| 23 | Neelankurichi (54) H      |
| 24 | Sendamangalam (15)        |
| 25 | Punnakayal (16)           |
| 26 | Thalavaipuram (69) H      |
| 27 | Dalavaipuram (46) H       |
| 28 | Arumughapuram (45) H      |
| 29 | Manakadu (45) H           |
| 30 | Palathen (45) H           |
| 31 | Madavankurichi (90)       |
| 32 | Natchathirapuram (90) H   |
| 33 | Molthandavakkadu (90) H   |
| 34 | Keelathanlavankadu (90) H |
| 35 | Kuttiyotham (7) H         |
| 36 | Kelakallanparai (7) H     |
| 37 | Melakallanparai (7) H     |
| 38 | Kuruthattur (9)           |
| 39 | Melakurukattur (9) H      |
| 40 | Keelakurukattur (9) H     |
| 41 | Vadakkurukattur (9) H     |
| 42 | Ilavapuram (9) H          |
| 43 | Voolakurukattur           |
| 44 | Kuthikalyani (9) H        |
| 45 | South Kottur (9) H        |
| 46 | Thottukuduru (9) H        |
| 47 | Chiramanipuram (19) H     |
| 48 | Pillayarmanai (9) H       |
| 49 | Pudur (45) H              |
| 50 | Kudiyiruppurilai (45) H   |
| 51 | Cheekapalankorai (11) H   |
| 52 | Pallipattu (44)           |
| 53 | Poochikadu (44) H         |
| 54 | Nattankinar (44) H        |
| 55 | Sengudi (44) H            |
| 56 | Jerusalemattinam (44) H   |
| 57 | Kudiyiruppuvillai (44) H  |

## Tirunelveli taluk.

|    |                            |
|----|----------------------------|
| 1  | Alangaripori (22)          |
| 2  | Rastha (1) H               |
| 3  | Rajavallipuram (42)        |
| 4  | Pillayarkulam (11)         |
| 5  | Kizha Pillayarkulam (11) H |
| 6  | Kanarpatti (10)            |
| 7  | Ettankulam (9)             |
| 8  | Seetharpanallur (39)       |
| 9  | Palavoor (93)              |
| 10 | Kiramangalam (93) H        |
| 11 | Valadai Pachori (92) H     |
| 12 | Parapakulam (115)          |
| 13 | Pattabacheri (92) H        |
| 14 | Vallalangulam (80)         |

(H) Hamlets.

Number within brackets indicates Code number of the village as per Census Book of 1961.

## APPENDIX O—cont.

## District and Taluk-war details of pumpsets in the state.

## ABSTRACT.

| District.               | Connected during the year. |                         | Total as on 31st March 1962. |                         |
|-------------------------|----------------------------|-------------------------|------------------------------|-------------------------|
|                         | Number.                    | Connected load in K. W. | Number.                      | Connected load in K. W. |
| (1)                     | (2)                        | (3)                     | (4)                          | (5)                     |
| Chingleput .. .. .      | 2,168                      | 7,214.633               | 17,249                       | 65,151.725              |
| Coimbatore .. .. .      | 4,356                      | 17,407.171              | 35,105                       | 144,445.000             |
| Kanyakumari .. .. .     | 8                          | 25.400                  | 29                           | 98.900                  |
| Madurai .. .. .         | 2,285                      | 8,350.107               | 11,457                       | 45,269.546              |
| Nilgiris .. .. .        | 9                          | 56.333                  | 16                           | 87.045                  |
| North Arcot .. .. .     | 4,425                      | 13,099.036              | 26,202                       | 81,832.697              |
| Ramanathapuram .. .. .  | 1,046                      | 3,307.285               | 7,242                        | 25,449.477              |
| Salem .. .. .           | 3,458                      | 11,131.307              | 19,618                       | 66,871.075              |
| South Arcot .. .. .     | 3,000                      | 13,816.961              | 10,741                       | 41,688.989              |
| Tirunelveli .. .. .     | 1,385                      | 3,647.229               | 7,800                        | 22,505.889              |
| Tiruchirappalli .. .. . | 1,245                      | 4,608.958               | 5,260                        | 17,554.575              |
| Thanjavur .. .. .       | 53                         | 237.601                 | 473                          | 2,047.099               |
| Total .. .. .           | 23,438                     | 82,901.921              | 140,601                      | 513,022.017             |

## APPENDIX O—contd.

District and Taluk-war details of pumpsets in the state—cont.

| Number and name of taluk. | Connected during the year 1961-62. |                        | Total as on 31st March 1962. |                        |
|---------------------------|------------------------------------|------------------------|------------------------------|------------------------|
|                           | Number.                            | Connected load in K.W. | Number.                      | Connected load in K.W. |
| (1)                       | (2)                                | (3)                    | (4)                          | (5)                    |
| CHINGLEPUT DISTRICT.      |                                    |                        |                              |                        |
| 1 Chingleput .. ..        | 358                                | 935.577                | 2,544                        | 8,735.818              |
| 2 Kancheepuram .. ..      | 281                                | 850.067                | 3,340                        | 11,225.198             |
| 3 Madurantakam .. ..      | 357                                | 1,010.084              | 2,385                        | 6,925.382              |
| 4 Ponneri .. ..           | 233                                | 992.831                | 1,611                        | 7,016.678              |
| 5 Saidapet .. ..          | 173                                | 537.462                | 1,836                        | 6,565.674              |
| 6 Sriperumbudur .. ..     | 112                                | 347.371                | 1,240                        | 5,045.633              |
| 7 Tiruvallur .. ..        | 329                                | 1,367.963              | 3,584                        | 16,954.682             |
| 8 Tiruttani .. ..         | 325                                | 1,173.178              | 729                          | 2,682.660              |
| Total ..                  | 2,168                              | 7,214.533              | 17,249                       | 65,151.725             |

## COIMBATORE DISTRICT.

|                           |       |            |        |             |
|---------------------------|-------|------------|--------|-------------|
| 1 Avnashi .. ..           | 640   | 2,528.143  | 6,087  | 24,830.530  |
| 2 Bhavani .. ..           | 366   | 1,374.890  | 2,333  | 8,303.520   |
| 3 Dharapuram .. ..        | 475   | 1,776.222  | 1,788  | 6,719.654   |
| 4 Erode .. ..             | 238   | 902.270    | 2,339  | 9,439.258   |
| 5 Gobichettipalayam .. .. | 291   | 1,088.510  | 3,153  | 12,475.190  |
| 6 Palladam .. ..          | 544   | 2,218.449  | 4,751  | 19,454.500  |
| 7 Pollachi .. ..          | 591   | 2,293.567  | 4,190  | 15,209.808  |
| 8 Udumalpet .. ..         | 511   | 2,097.342  | 3,340  | 12,678.458  |
| 9 Coimbatore .. ..        | 709   | 3,097.778  | 7,074  | 35,349.082  |
| Total ..                  | 4,356 | 17,407.171 | 35,105 | 144,445.000 |

## KANYAKUMARI DISTRICT.

|                        |   |        |    |        |
|------------------------|---|--------|----|--------|
| 1 Agastheeswaram .. .. | 4 | 13.400 | 23 | 79.400 |
| 2 Kalkulam .. ..       | 1 | 2.200  | 1  | 2.200  |
| 3 Thovala .. ..        | 2 | 7.500  | 4  | 15.000 |
| 4 Villavancode .. ..   | 1 | 2.300  | 1  | 2.300  |
| Total ..               | 8 | 25.400 | 29 | 98.900 |

## MADURAI DISTRICT.

|                       |       |           |        |            |
|-----------------------|-------|-----------|--------|------------|
| 1 Dindigul .. ..      | 558   | 2,476.500 | 2,216  | 8,806.284  |
| 2 Madurai .. ..       | 21    | 64.155    | 350    | 1,554.369  |
| 3 Melur .. ..         | 62    | 169.751   | 345    | 1,448.451  |
| 4 Nilakottai .. ..    | 181   | 725.509   | 1,254  | 5,380.180  |
| 5 Palani .. ..        | 722   | 2,432.680 | 2,253  | 7,989.098  |
| 6 Periakulam .. ..    | 473   | 1,757.221 | 3,183  | 12,272.185 |
| 7 Thirumangalam .. .. | 268   | 724.291   | 1,847  | 6,889.029  |
| Total ..              | 2,285 | 8,350.107 | 11,457 | 45,289.546 |

## NILGIRIS DISTRICT.

|                    |   |        |    |        |
|--------------------|---|--------|----|--------|
| 1 Coonoor .. ..    | 3 | 6.538  | 8  | 2.639  |
| 2 Ootacamund .. .. | 6 | 49.795 | 8  | 84.406 |
| Total ..           | 9 | 56.333 | 16 | 87.045 |

## APPENDIX O—cont.

District and Taluk-war details of pumpsets in the state—cont.

| Number and name of taluk. | Connected during the year 1961-62. |                        | Total as on 31st March 1962. |                        |
|---------------------------|------------------------------------|------------------------|------------------------------|------------------------|
|                           | Number.                            | Connected load in K.W. | Number.                      | Connected load in K.W. |
| (1)                       | (2)                                | (3)                    | (4)                          | (5)                    |
| NORTH ARCOT DISTRICT.     |                                    |                        |                              |                        |
| 1 Arkonam .. ..           | 404                                | 1,320.793              | 3,001                        | 9,957.994              |
| 2 Arni .. ..              | 351                                | 1,032.151              | 1,511                        | 3,752.637              |
| 3 Chengam .. ..           | 235                                | 685.574                | 1,267                        | 5,787.641              |
| 4 Cheyyar .. ..           | 293                                | 785.165                | 2,846                        | 8,116.431              |
| 5 Gudiyatham .. ..        | 874                                | 2,633.735              | 4,833                        | 14,129.820             |
| 6 Polur .. ..             | 450                                | 1,221.948              | 2,694                        | 7,891.142              |
| 7 Tirupathur .. ..        | 246                                | 770.891                | 1,479                        | 4,883.619              |
| 8 Tiruvannamalai .. ..    | 395                                | 1,172.355              | 1,344                        | 4,082.796              |
| 9 Vellore .. ..           | 361                                | 1,033.210              | 1,839                        | 5,895.775              |
| 10 Walajapet .. ..        | 494                                | 1,475.907              | 4,232                        | 13,056.812             |
| 11 Wandiwash .. ..        | 322                                | 917.207                | 1,156                        | 3,398.030              |
| Total ..                  | 4,425                              | 13,099.036             | 26,202                       | 81,832.697             |

## RAMANATHAPURAM DISTRICT.

|                        |       |           |       |            |
|------------------------|-------|-----------|-------|------------|
| 1 Aruppakkottai .. ..  | 117   | 336.929   | 820   | 3,029.603  |
| 2 Mudukolathur .. ..   | 13    | 91.754    | 56    | 237.604    |
| 3 Paramakudi .. ..     | 34    | 216.330   | 155   | 740.289    |
| 4 Ramanathapuram .. .. | 5     | 32.899    | 13    | 53.412     |
| 5 Sattur .. ..         | 366   | 917.042   | 2,427 | 7,759.562  |
| 6 Sivaganga .. ..      | 47    | 182.082   | 303   | 1,129.574  |
| 7 Srivilliputhur .. .. | 425   | 1,403.619 | 3,180 | 11,387.019 |
| 8 Thirupathur .. ..    | 37    | 121.554   | 267   | 1,039.306  |
| 9 Thiruvadanai .. ..   | 2     | 4.476     | 21    | 73.108     |
| Total ..               | 1,046 | 3,307.285 | 7,242 | 25,449.477 |

## SALEM DISTRICT.

|                        |       |            |        |            |
|------------------------|-------|------------|--------|------------|
| 1 Attur .. ..          | 672   | 2,035.090  | 3,899  | 12,828.030 |
| 2 Dharmapuri .. ..     | 108   | 337.570    | 464    | 1,568.230  |
| 3 Harur .. ..          | 376   | 1,029.220  | 724    | 2,522.560  |
| 4 Hosur .. ..          | 10    | 22.380     | 65     | 249.290    |
| 5 Krishnagiri .. ..    | 166   | 527.423    | 749    | 2,519.085  |
| 6 Namakkal .. ..       | 614   | 2,186.250  | 3,331  | 12,044.670 |
| 7 Omalur .. ..         | 137   | 469.988    | 992    | 3,514.730  |
| 8 Rasipuram .. ..      | 602   | 1,842.990  | 4,477  | 16,337.629 |
| 9 Salem .. ..          | 624   | 1,982.138  | 3,216  | 11,762.816 |
| 10 Thiruchengode .. .. | 132   | 428.578    | 672    | 1,937.080  |
| 11 Yercaud .. ..       | ..    | ..         | 3      | 9.840      |
| 12 Sankari .. ..       | 77    | 269.680    | 406    | 1,582.100  |
| Total ..               | 3,458 | 11,131.307 | 19,018 | 66,871.075 |

## SOUTH ARCOT DISTRICT.

|                      |       |            |        |            |
|----------------------|-------|------------|--------|------------|
| 1 Gingee .. ..       | 337   | 989.563    | 684    | 1,984.239  |
| 2 Chidambaram .. ..  | 11    | 49.000     | 124    | 456.750    |
| 3 Cuddalore .. ..    | 356   | 3,780.000  | 3,175  | 11,455.066 |
| 4 Kallakurichi .. .. | 211   | 926.000    | 598    | 2,013.750  |
| 5 Tindivanam .. ..   | 401   | 1,091.398  | 1,534  | 4,534.643  |
| 6 Thirukoilur .. ..  | 170   | 790.500    | 1,232  | 4,267.125  |
| 7 Villupuram .. ..   | 992   | 5,479.500  | 2,927  | 14,585.291 |
| 8 Virdachalam .. ..  | 143   | 711.000    | 467    | 1,792.125  |
| Total ..             | 3,000 | 13,816.901 | 10,741 | 41,688.980 |

## APPENDIX O—cont.

District and Taluk-war details of pumpsets in the state—cont.

| Number and name of taluk.             | Connected during the year 1961-62 |                        | Total as on 31st March 1962. |                        |
|---------------------------------------|-----------------------------------|------------------------|------------------------------|------------------------|
|                                       | Number.                           | Connected load in K.W. | Number.                      | Connected load in K.W. |
| (1)                                   | (2)                               | (3)                    | (4)                          | (5)                    |
| <b>XI. TIRUNELVELI DISTRICT.</b>      |                                   |                        |                              |                        |
| 1 Ambasamudram .. ..                  | 43                                | 121.100                | 574                          | 1,813.100              |
| 2 Kovilpatti .. ..                    | 196                               | 479.538                | 1,322                        | 3,790.916              |
| 3 Nanguneri .. ..                     | 406                               | 1,042.800              | 2,016                        | 5,495.800              |
| 4 Sankarankoil .. ..                  | 323                               | 871.053                | 603                          | 4,848.751              |
| 5 Shencottah .. ..                    | 44                                | 195.238                | 95                           | 284.250                |
| 6 Srivaikuntam .. ..                  | 77                                | 229.820                | 135                          | 437.200                |
| 7 Tenkasi .. ..                       | 67                                | 182.538                | 760                          | 2,270.300              |
| 8 Tiruchendur .. ..                   | 137                               | 377.700                | 757                          | 2,098.200              |
| 9 Tirunelveli .. ..                   | 92                                | 237.442                | 478                          | 1,517.372              |
| Total ..                              | 1,385                             | 3,647.229              | 7,800                        | 22,505.889             |
| <b>XII. TIRUCHIRAPPALLI DISTRICT.</b> |                                   |                        |                              |                        |
| 1 Alangudi .. ..                      | 13                                | 50.000                 | 74                           | 298.674                |
| 2 Karur .. ..                         | 395                               | 1,816.954              | 1,304                        | 4,814.088              |
| 3 Kulathur .. ..                      | 41                                | 169.540                | 142                          | 517.878                |
| 4 Kulithalai .. ..                    | 215                               | 850.383                | 963                          | 3,692.499              |
| 5 Tiruchirappalli .. ..               | 48                                | 199.555                | 245                          | 923.625                |
| 6 Tirumayam .. ..                     | 6                                 | 30.500                 | 90                           | 301.401                |
| 7 Lalgudi .. ..                       | 42                                | 117.868                | 314                          | 1,048.000              |
| 8 Musiri .. ..                        | 421                               | 1,158.170              | 1,837                        | 5,198.290              |
| 9 Perambalur .. ..                    | 56                                | 166.370                | 253                          | 597.000                |
| 10 Udayarpalayam .. ..                | 8                                 | 49.618                 | 47                           | 168.125                |
| Total ..                              | 1,245                             | 4,608.958              | 5,269                        | 17,554.575             |
| <b>XIII. THANJAVUR DISTRICT.</b>      |                                   |                        |                              |                        |
| 1 Thanjavur .. ..                     | 1                                 | 3.730                  | 22                           | 97.724                 |
| 2 Aranthangi .. ..                    | ..                                | ..                     | ..                           | ..                     |
| 3 Manargudi .. ..                     | 1                                 | 3.730                  | 26                           | 198.000                |
| 4 Mayuram .. ..                       | 8                                 | 69.378                 | 83                           | 462.000                |
| 5 Nagapattinam .. ..                  | 1                                 | 2.238                  | 47                           | 166.878                |
| 6 Nannilam .. ..                      | 5                                 | 30.586                 | 20                           | 71.250                 |
| 7 Pattukottai .. ..                   | 4                                 | 13.428                 | 28                           | 107.250                |
| 8 Sirkali .. ..                       | ..                                | ..                     | 23                           | 87.000                 |
| 9 Thiruthuraiipoondi .. ..            | 9                                 | 27.602                 | 33                           | 273.750                |
| 10 Papanasam .. ..                    | 1                                 | 0.746                  | ..                           | ..                     |
| 11 Kumbakonam .. ..                   | 22                                | 83.925                 | 188                          | 575.000                |
| 12 Orathanad .. ..                    | 1                                 | 2.238                  | 38                           | 8.250                  |
| Total ..                              | 53                                | 237.601                | 473                          | 2,047.699              |

## APPENDIX P.

ESTABLISHMENT—MADRAS STATE ELECTRICITY BOARD—REVISION OF SCALES OF PAY, RATES OF DEARNESS ALLOWANCE, HOUSE RENT ALLOWANCE AND MADRAS HOUSE ALLOWANCE—IMPLEMENTED IN BOARD'S PROCEEDINGS MS. NO. 2794, DATED 28TH DECEMBER 1961.

| Designation.                                        | Existing scale of pay. | Revised scale of pay.                           |
|-----------------------------------------------------|------------------------|-------------------------------------------------|
| (1)                                                 | (2)                    | (3)                                             |
| RS.                                                 | RS.                    | RS.                                             |
| <i>Gazetted.</i>                                    |                        |                                                 |
| 1 Assistant Engineer .. ..                          | 275-25-500             | 375-25-650                                      |
| 2 Chemist .. ..                                     | 220-15-340             | 300-20-500                                      |
| 3 Chief Head Draftsman .. ..                        | -20-410.               |                                                 |
| 4 Examiner of Stores Accounts .. ..                 | 220-15-340             | 300-15-450                                      |
| 5 Stores Verification Officer .. ..                 | 275-25-500             | 375-25-650                                      |
| 6 Stores Superintendent .. ..                       | 250-15-420             | 300-25-550                                      |
| 7 Chief Accountant .. ..                            | 220-15-385             | 300-25-500                                      |
| 8 Deputy Chief Accountant .. ..                     | 360-20-500             | 450-30-750                                      |
| 9 Personnel Officer .. ..                           | -25-600.               |                                                 |
| 10 Junior Assistant Administration, Grade I .. ..   | 220-15-385             | 300-25-500                                      |
| 11 Junior Assistant, Administration, Grade II .. .. | 400-20-600             | 450-30-750                                      |
|                                                     | 295-15-385 }           | 375-20-475                                      |
|                                                     | 245-15-355 }           | will be designated as Assistant Administration. |
| <i>Non-Gazetted (Technical).</i>                    |                        |                                                 |
| 12 Junior Engineer .. ..                            | 180-10-270             | 240-15-375                                      |
| 13 Supervisor, Grade I .. ..                        | 180-10-270             | 240-15-375                                      |
| 14 Supervisor, Grade II .. ..                       | 125-7½-170             | 160-7½-190                                      |
|                                                     | -10-180.               | -10-240.                                        |
| 15 Supervisor, Civil .. ..                          | 125-7½-170             | 160-7½-190                                      |
|                                                     | -10-270.               | 10-240-15-375.                                  |
| <i>Board Secretariat (Gazetted).</i>                |                        |                                                 |
| 16 Assistant Secretary to the Board .. ..           | 475-75/2-700.          | 550-40-750                                      |
| 17 Assistant Statistical Officer .. ..              | 250-50/2-500.          | -50-800.                                        |
|                                                     |                        | 300-25-600                                      |
| <i>Non-Gazetted (Technical).</i>                    |                        |                                                 |
| 18 Head Draftsman .. ..                             | 210-40-270             | 305-15-380                                      |
| 19 Draftsman, Grade I .. ..                         | 160-10-20              | 230-15-305                                      |
| 20 Draftsman, Grade II .. ..                        | 130-7½-160             | 180-10-230                                      |
|                                                     | -10-180.               |                                                 |
| 21 Draftsman, Grade III .. ..                       | 80-4-120               | 125-4-165                                       |
|                                                     |                        | 5-180.                                          |
| 22 Tracer .. ..                                     | 50-½-65                | 80-2½-100                                       |
| 23 Junior Chemist .. ..                             | 140-10-250             | 180-10-300                                      |
| 24 Assistant Chemist .. ..                          | 90-6-150               | 125-6-185                                       |
| 25 Public Works Department Electrician .. ..        | 125-7½-170             | 160-7½-190                                      |
|                                                     | -10-180.               | -10-240.                                        |
| 26 Instrument Repairer, Grade I .. ..               | 70-4-110               | 105-4-145                                       |
| 27 Instrument Repairer, Grade II .. ..              | 55-3-85                | 85-3-115                                        |
| 28 Transport Overseer, Grade I .. ..                | 70-4-110               | 105-4-145                                       |
| 29 Transport Overseer, Grade II .. ..               | 55-3-85                | 85-3-115                                        |

## APPENDIX P—cont.

ESTABLISHMENT—MADRAS STATE ELECTRICITY BOARD—REVISION OF SCALES OF PAY, RATES OF DEARNESS ALLOWANCE, HOUSE RENT ALLOWANCE AND MADRAS HOUSE ALLOWANCE—IMPLEMENTED IN BOARD'S PROCEEDINGS MS. NO. 2794, DATED 28TH DECEMBER 1961—cont.

| Designation.                                                | Existing<br>scale of<br>pay.<br>(2)<br>RS. | Revised<br>scale of<br>pay.<br>(3)<br>RS. |
|-------------------------------------------------------------|--------------------------------------------|-------------------------------------------|
| (1)                                                         |                                            |                                           |
| <i>Operation subordinate service and workcharged posts.</i> |                                            |                                           |
| 30 Charge Engineer .. .. .                                  | 275-25-500                                 | 375-25-650                                |
| 31 Special Grade Foreman .. .. .                            | 250-12½-<br>325.                           | 325-15-460                                |
| 32 Special Winder .. .. .                                   | 230-10-260<br>-15-320.                     | 265-15-400                                |
| 33 Assistant Special Winder .. .. .                         | 140-10-240                                 | 180-10-300                                |
| 34 Foreman, Grade I .. .. .                                 | 140-10-240                                 | 180-10-300                                |
| 35 Assistant Chargeman .. .. .                              | 180-10-270                                 | 225-10-345                                |
| 36 Junior Chargeman .. .. .                                 | 125-7½-170<br>-10-180.                     | 160 7½-190<br>-10-240.                    |
| 37 Foreman, Grade II .. .. .                                | 125-7½-170<br>-10-180.                     | 160-7½-190<br>-10-240.                    |
| 38 Senior Machine Operator .. .. .                          | 125-7½-170<br>-10-180.                     | 160-7½-190.<br>-10-240.                   |
| 39 Surveyor (qualified) .. .. .                             | 125-7½-170<br>-10-180.                     | 160-7½-190.<br>-10-240.                   |
| 40 Surveyor (unqualified) .. .. .                           | 125 (fixed).                               | 160 (fixed).                              |
| 41 Senior Construction Foreman .. .. .                      | 180-7½-205                                 | 200-10-250                                |
| 42 Construction Foreman .. .. .                             | 90-7½-165                                  | 120-7½-200                                |
| 43 Line Inspector, Grade I .. .. .                          | 100- 5-140                                 | 135- 5-175                                |
| 44 Winder, First Grade .. .. .                              |                                            |                                           |
| 45 Foreman, Grade II (Operation Subordinate Service).       |                                            |                                           |
| 46 Foreman, Grade III (W.C.) .. .. .                        | 100- 5-140                                 | 135- 5-175                                |
| 47 Driver (Tractor, Trailers of heavy vehicles)             |                                            |                                           |
| 48 Syrang, First Grade .. .. .                              |                                            |                                           |
| 49 Maistry, First Grade .. .. .                             | 80- 4-120                                  | 115- 5-150                                |
| 50 Meter Inspector .. .. .                                  |                                            |                                           |
| 51 Loco Driver/Transports .. .. .                           |                                            |                                           |
| 52 Mechanical Estimator .. .. .                             |                                            |                                           |
| 53 Instrument Mechanic, Grade I .. .. .                     |                                            |                                           |
| 54 Mechanic, First Grade .. .. .                            |                                            |                                           |
| 55 Telephone Inspector, First Grade .. .. .                 |                                            |                                           |
| 56 Tester, First Grade .. .. .                              |                                            |                                           |
| 57 Line Inspector, Second Grade .. .. .                     |                                            |                                           |
| 58 Winder, Second Grade .. .. .                             |                                            |                                           |
| 59 Foreman, Third Grade (O.S.S.) .. .. .                    |                                            |                                           |
| 60 Load Surveyor/Canvasser .. .. .                          |                                            |                                           |
| 61 Junior Machine Operator .. .. .                          |                                            |                                           |
| 62 Senior Store Assistant (W.C.) .. .. .                    |                                            |                                           |
| 63 Foreman, Fourth Grade (W.C.) .. .. .                     |                                            |                                           |
| 64 Sergeant .. .. .                                         | 70-4-110                                   | 105-4-145                                 |
| 65 Chargeman .. .. .                                        |                                            |                                           |
| 66 Inspector of Recorders (O.S.S.) .. .. .                  |                                            |                                           |
| 67 Oil Tester .. .. .                                       |                                            |                                           |
| 68 Switch Board Attendant/Operator .. .. .                  |                                            |                                           |
| 69 Inspector of Recorders (W.C.) .. .. .                    |                                            |                                           |
| 70 Crane Driver-cum-Electrician .. .. .                     |                                            |                                           |
| 71 Lorry Driver, First Grade .. .. .                        |                                            |                                           |
| 72 Substation/Operator .. .. .                              |                                            |                                           |
| 73 Mechanic, Second Grade .. .. .                           |                                            |                                           |
| 74 Maistry, Second Grade .. .. .                            |                                            |                                           |
| 75 Telephone Inspector, II Grade .. .. .                    |                                            |                                           |

## APPENDIX 'P'—cont.

ESTABLISHMENT—MADRAS STATE ELECTRICITY BOARD—REVISION OF SCALES OF PAY, RATES OF DEARNESS ALLOWANCE, HOUSE RENT ALLOWANCE AND MADRAS HOUSE ALLOWANCE—IMPLEMENTED IN BOARD'S PROCEEDINGS MS. NO. 2794, DATED 28TH DECEMBER 1961—cont.

| Designation.                                                     | Existing<br>scale of<br>pay.<br>(2)<br>RS. | Revised<br>scale of<br>pay.<br>(3)<br>RS. |
|------------------------------------------------------------------|--------------------------------------------|-------------------------------------------|
| (1)                                                              |                                            |                                           |
| <i>Operation subordinate service and workcharged posts—cont.</i> |                                            |                                           |
| 76 Foreman, Fourth Grade (O.S.S.) .. .. .                        | 70- 4- 110                                 | 105- 4- 145                               |
| 77 Shop Assistant .. .. .                                        |                                            |                                           |
| 78 Calyx drill Driver (W.C.) .. .. .                             |                                            |                                           |
| 79 Compressor Driver (W.C.) .. .. .                              |                                            |                                           |
| 80 Road Roller Driver (W.C.) .. .. .                             |                                            |                                           |
| 81 Blacksmith, Grade I (W.C.) .. .. .                            |                                            |                                           |
| 82 Welder, First Grade (W.C.) .. .. .                            |                                            |                                           |
| 83 Pattern Maker (W.C.) .. .. .                                  |                                            |                                           |
| 84 Fitter, First Grade (W.C.) .. .. .                            |                                            |                                           |
| 85 Foreman, Fifth Grade (W.C.) .. .. .                           |                                            |                                           |
| 86 Carpenter, First Grade (O.S.S. and W.C.) .. .. .              |                                            |                                           |
| 87 Fireman, Transport .. .. .                                    |                                            |                                           |
| 88 Plate Layer, Transport .. .. .                                |                                            |                                           |
| 89 Tool Keeper, First Grade .. .. .                              |                                            |                                           |
| 90 Filter Operator .. .. .                                       |                                            |                                           |
| 91 Instrument Repairer (Telephone) .. .. .                       | 65- 3- 95                                  | 98-3 -128                                 |
| 92 Fitter, First Grade (O.S.S.) .. .. .                          |                                            |                                           |
| 93 Fitter, Second Grade (W.C.) .. .. .                           |                                            |                                           |
| 94 Winch Driver .. .. .                                          |                                            |                                           |
| 95 Crane Driver .. .. .                                          |                                            |                                           |
| 96 Electrician, First Grade .. .. .                              |                                            |                                           |
| 97 Lineman Driver .. .. .                                        |                                            |                                           |
| 98 Lineman, First Grade .. .. .                                  |                                            |                                           |
| 99 Lineman, Fitter .. .. .                                       |                                            |                                           |
| 100 Lineman, Turner .. .. .                                      |                                            |                                           |
| 101 Lineman, Operator .. .. .                                    |                                            |                                           |
| 102 Lorry Driver, Second Grade .. .. .                           |                                            |                                           |
| 103 Driver, Power House .. .. .                                  |                                            |                                           |
| 104 Instrument Mechanic, II Grade .. .. .                        |                                            |                                           |
| 105 Mechanic, Third Grade .. .. .                                | 55- 3- 85                                  | 85- 3- 118                                |
| 106 Tester, Second Grade .. .. .                                 |                                            |                                           |
| 107 Foreman, Fifth Grade (O.S.S.) .. .. .                        |                                            |                                           |
| 108 Syrang, Second Grade .. .. .                                 |                                            |                                           |
| 109 Mixer Driver (W.C.) .. .. .                                  |                                            |                                           |
| 110 Machineman, First Grade (W.C.) .. .. .                       |                                            |                                           |
| 111 Maistry, Third Grade .. .. .                                 |                                            |                                           |
| 112 Time Keeper, First Grade .. .. .                             |                                            |                                           |
| 113 Job Clerk .. .. .                                            |                                            |                                           |
| 114 Foreman, Sixth Grade (W.C.) .. .. .                          |                                            |                                           |
| 115 Blacksmith, Second Grade (W.C.) .. .. .                      |                                            |                                           |
| 116 Painter (W.C.) .. .. .                                       |                                            |                                           |
| 117 Tinsmith (W.C.) .. .. .                                      |                                            |                                           |
| 118 Gauge Reader .. .. .                                         |                                            |                                           |
| 119 Senior Attendant, Fitter House .. .. .                       |                                            |                                           |
| 120 Head Fitter cum-Pump Driver .. .. .                          |                                            |                                           |
| 121 Pump Driver .. .. .                                          |                                            |                                           |
| 122 Filter Mechanic (for oil filter) .. .. .                     |                                            |                                           |
| 123 Machineman (O.S.S.) .. .. .                                  |                                            |                                           |
| 124 Caulker and Rivetter .. .. .                                 |                                            |                                           |
| 125 Fitter Slinger .. .. .                                       |                                            |                                           |
| 126 Valve house Attendant .. .. .                                |                                            |                                           |
| 127 Trolley Guard .. .. .                                        |                                            |                                           |
| 128 Turbine Operator .. .. .                                     |                                            |                                           |
| 129 Mason, First Grade .. .. .                                   |                                            |                                           |
| 130 Carpenter, Second Grade (O.S.S.) .. .. .                     |                                            |                                           |
| 131 Packer .. .. .                                               |                                            |                                           |
| 132 Tyndal .. .. .                                               |                                            |                                           |

## APPENDIX 'P'—cont.

ESTABLISHMENT—MADRAS STATE ELECTRICITY BOARD—REVISION OF SCALES OF PAY, RATES OF DEARNESS ALLOWANCE, HOUSE RENT ALLOWANCE AND MADRAS HOUSE ALLOWANCE—IMPLEMENTED IN BOARD'S PROCEEDINGS Ms. No. 2794, DATED 28TH DECEMBER 1961—cont.

| Designation.                                                     | Existing scale of pay. | Revised scale of pay. |
|------------------------------------------------------------------|------------------------|-----------------------|
| (1)                                                              | (2)                    | (3)                   |
| RS.                                                              | RS.                    |                       |
| <i>Operation subordinate service and workcharged posts—cont.</i> |                        |                       |
| 133 Cleaner Transport .. .. .                                    |                        |                       |
| 134 Assistant to Hydraulic Operator .. .. .                      |                        |                       |
| 135 Assistant Operator, First Grade .. .. .                      |                        |                       |
| 136 Mechanic Leather .. .. .                                     |                        |                       |
| 137 Mechanic, Fourth Grade .. .. .                               | 55-2-85                | 85-2-118              |
| 138 Maistry, Fourth Grade .. .. .                                |                        |                       |
| 139 Wireman/Wireman Meter Reader .. .. .                         |                        |                       |
| 140 Instrument Mechanic, Third Grade .. .. .                     |                        |                       |
| 141 Lineman, Second Grade .. .. .                                |                        |                       |
| 142 Commercial Assistant .. .. .                                 |                        |                       |
| 143 Telephone Operator, First Grade .. .. .                      |                        |                       |
| 144 Store Assistant .. .. .                                      |                        |                       |
| 145 Machineman, Second Grade (W.C.) .. .. .                      |                        |                       |
| 146 Rota Print Operator .. .. .                                  |                        |                       |
| 147 Warden, First Grade (W.C.) .. .. .                           |                        |                       |
| 148 Warden (C.S.S.) .. .. .                                      |                        |                       |
| 149 Moulder (W.S.) .. .. .                                       |                        |                       |
| 150 Welder, Second Grade (W.C.) .. .. .                          |                        |                       |
| 151 Blacksmith, Grade III (W.C.) .. .. .                         |                        |                       |
| 152 Carpenter, Second Grade (W.C.) .. .. .                       |                        |                       |
| 153 Fitter, Third Grade (W.C.) .. .. .                           |                        |                       |
| 154 Time-keeper, Second Grade .. .. .                            |                        |                       |
| 155 Gurkha Watchman (Madras) (O.S.S.) .. .. .                    |                        |                       |
| 156 Semi skilled Workman .. .. .                                 |                        |                       |
| 157 Coal Maistry .. .. .                                         |                        |                       |
| 158 Telephone Operator, Second Grade .. .. .                     |                        |                       |
| 159 Mason, Second Grade .. .. .                                  |                        |                       |
| 160 Stone Cutter .. .. .                                         |                        |                       |
| 161 Fitter Second Grade (O.S.S.) .. .. .                         |                        |                       |
| 162 Fitter, Fourth Grade (W.C.) .. .. .                          |                        |                       |
| 163 Electrician, Second Grade .. .. .                            | 50-2½-85               | 80-2½-100             |
| 164 Boiler House Fireman .. .. .                                 |                        |                       |
| 165 Assistant Wireman .. .. .                                    |                        |                       |
| 166 Plumber .. .. .                                              |                        |                       |
| 167 Assistant Operator, Second Grade .. .. .                     |                        |                       |
| 168 Electrical Fitter .. .. .                                    |                        |                       |
| 169 Machineman, Third Grade (W.C.) .. .. .                       |                        |                       |
| 170 Blacksmith, Fourth Grade (W.C.) .. .. .                      |                        |                       |
| 171 Maistry, Fifth Grade (W.C.) .. .. .                          |                        |                       |
| 172 Fitter, Fifth Grade (W.C.) .. .. .                           |                        |                       |
| 173 Machineman, Fourth Grade (W.C.) .. .. .                      |                        |                       |
| 174 Mazdoor (W.C.) .. .. .                                       |                        |                       |
| 175 Blacksmith, Fifth Grade (W.C.) .. .. .                       |                        |                       |
| 176 Hammerman (W.C.) .. .. .                                     |                        |                       |
| 177 Gurkha Watchman (O.S.S.) Mufassal .. .. .                    |                        |                       |
| 178 Gurkha Watchman (W.C.) .. .. .                               |                        |                       |
| 179 Blue Printer, First Grade .. .. .                            |                        |                       |
| 180 Sanitary Maistry .. .. .                                     |                        |                       |
| 181 Junior Attendant (Fitter House) .. .. .                      |                        |                       |
| 182 Windermate .. .. .                                           |                        |                       |
| 183 Pump House Assistant .. .. .                                 |                        |                       |
| 184 Oiler .. .. .                                                |                        |                       |
| 185 Cleaner, First Grade .. .. .                                 | 36-2-50                | 64-2-80               |
| 186 Lascar, First Grade .. .. .                                  |                        |                       |
| 187 Helper .. .. .                                               |                        |                       |
| 188 Turbine Cleaner .. .. .                                      |                        |                       |
| 189 Boiler House Attendant .. .. .                               |                        |                       |
| 190 Store Helper/Lascar, First Grade .. .. .                     |                        |                       |
| 191 Rest House Attendant .. .. .                                 |                        |                       |

## APPENDIX 'P'—cont.

ESTABLISHMENT—MADRAS STATE ELECTRICITY BOARD—REVISION OF SCALES OF PAY, RATES OF DEARNESS ALLOWANCE, HOUSE RENT ALLOWANCE AND MADRAS HOUSE ALLOWANCE—IMPLEMENTED IN BOARD'S PROCEEDINGS Ms. No. 2794, DATED 28TH DECEMBER 1961—cont.

| Designation.                                                     | Existing scale of pay. | Revised scale of pay. |
|------------------------------------------------------------------|------------------------|-----------------------|
| (1)                                                              | (2)                    | (3)                   |
| RS.                                                              | RS.                    | RS.                   |
| <i>Operation subordinate service and workcharged posts—cont.</i> |                        |                       |
| 192 Tool-keeper, Second Grade .. .. .                            |                        |                       |
| 193 Pipe Line Fitter .. .. .                                     |                        |                       |
| 194 Matty-cum-Watchman (O.S.S.) .. .. .                          | 36-2-50                | 64-2-80               |
| 195 Groundsman-A .. .. .                                         |                        |                       |
| 196 Warden, Second Grade (W.C.) .. .. .                          |                        |                       |
| 197 Road Roller Cleaner .. .. .                                  |                        |                       |
| 198 Anti-Malarial Mazdoor .. .. .                                |                        |                       |
| 199 Fitter Mazdoor .. .. .                                       |                        |                       |
| 200 Coal Mazdoor .. .. .                                         |                        |                       |
| 201 Groundsman-B .. .. .                                         |                        |                       |
| 202 Store helper/Lascar Second Grade .. .. .                     |                        |                       |
| 203 Laboratory helper (W.C.) .. .. .                             |                        |                       |
| 204 Fitter Mazdoor (W.C.) .. .. .                                |                        |                       |
| 205 Mazdoor (W.C.) .. .. .                                       |                        |                       |
| 206 Mazdoor .. .. .                                              |                        |                       |
| 207 Laboratory helper .. .. .                                    |                        |                       |
| 208 Watchman .. .. .                                             | 28-1½-40               | 55-1½-70              |
| 209 Gardener .. .. .                                             |                        |                       |
| 210 Sweeper .. .. .                                              |                        |                       |
| 211 Scavenger .. .. .                                            |                        |                       |
| 212 Telephone boy .. .. .                                        |                        |                       |
| 213 Cleaner, Second Grade .. .. .                                |                        |                       |
| 214 Lascar, Second Grade (O.S.S.) .. .. .                        |                        |                       |
| 215 Lascar, Second Grade (W.C.) .. .. .                          |                        |                       |
| 216 Nursing Orderly .. .. .                                      |                        |                       |
| 217 Blue Printer, Second Grade .. .. .                           |                        |                       |
| 218 Menial .. .. .                                               |                        |                       |
| 219 Matty-cum-Watchman (W.C.) .. .. .                            |                        |                       |

*Non-Gazetted (Non-Technical).*

|                                                     |            |                                              |
|-----------------------------------------------------|------------|----------------------------------------------|
| 220 Senior Accountant/Senior Superintendent .. .. . | 200-10-250 | 240-10-330                                   |
| 221 Junior Accountant/Junior Superintendent .. .. . | 150-7½-210 | 190-7½-250                                   |
| 222 Upper Division Clerk .. .. .                    | 90-6-150   | 125-6-185                                    |
| 223 Lower Division Clerk .. .. .                    | 50-5-100   | 90-5-140<br>(Graduates to start on Rs. 105). |
| 224 Typist (qualified) .. .. .                      | 50-5-100   | 90-5-140<br>(Graduates to start on Rs. 105). |

NOTE.—Typists who are not fully qualified.

- (a) Typists who are fully qualified under the General Rules for the Madras State and Subordinate Services as adopted by the Board but who have passed the Lower Grade Typewriting. 50 90
- (b) Typists who are not qualified under the General Rules for the Madras State and Subordinate Services as adopted by the Board but whose Secondary School-Leaving Certificates show that they took the examination on the completion of their school course up to and including Form VI and have passed the Higher Grade Test in Typewriting. 50-5-75 90-5-115
- (c) Other unqualified typists who do not come under any of the above categories. 36-2-50 64-2-80

## APPENDIX 'P'—cont.

ESTABLISHMENT—MADRAS STATE ELECTRICITY BOARD—REVISION OF SCALES OF PAY, RATES OF DEARNESS ALLOWANCE, HOUSE RENT ALLOWANCE AND MADRAS HOUSE ALLOWANCE—IMPLEMENTED IN BOARD'S PROCEEDINGS MS. NO. 2794, DATED 28TH DECEMBER 1961—cont.

| Designation.                                                     | Existing scale of pay. | Revised scale of pay.                        |
|------------------------------------------------------------------|------------------------|----------------------------------------------|
| (1)                                                              | (2)                    | (3)                                          |
|                                                                  | RS.                    | RS.                                          |
| <i>Operation subordinate service and workcharged posts—cont.</i> |                        |                                              |
| 225 Steno-typists .. .. .                                        | 50-5-100               | 90-5-140<br>(Graduates to start on Rs. 105). |
| 226 Chief Store-keeper/Stock Verifier .. .. .                    | 150-7½-210             | 190-7½-250                                   |
| 227 Store-keeper, Grade I .. .. .                                | 100-8-160              | 135-8-195                                    |
| 228 Store-keeper, Grade II .. .. .                               | 60-5-100               | 100-5-150                                    |
| 229 Inspector of Bill Collectors .. .. .                         | 150-7½-210             | 190-7½-250                                   |
| 230 Sub-Inspector of Bill Collectors .. .. .                     | 70-4-110               | 105-4-145                                    |
| 231 Bill Collectors .. .. .                                      | 45-3½-80               | 75-4-115                                     |
| 232 Attender .. .. .                                             | 36-2-50                | 64-2-80                                      |
| 233 Daffadar .. .. .                                             | 33-1½-45               | 60-1½-75                                     |
| 234 Peon .. .. .                                                 | 28-1½-40               | 55-1½-70                                     |

*Board Secretariat.*

|                                                                 |            |                                              |
|-----------------------------------------------------------------|------------|----------------------------------------------|
| 235 Superintendent .. .. .                                      | 200-20-400 | 250-25-500                                   |
| 236 Upper Division Clerk/Upper Division Clerk-cum-Steno-typist. | 95-10-175  | 140-10-240                                   |
| 237 Lower Division Clerk .. .. .                                | 60-5-110   | 90-5-140<br>(Graduates to start on Rs. 105). |
| 238 Typist (qualified) .. .. .                                  | 60-5-110   | 90-5-140<br>(Graduates to start on Rs. 105). |

NOTE.—Typists who are not fully qualified.

|                                                                                                                                                                                                                                                                                                                                                |           |                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------|
| (a) Typists who are fully qualified under the General Rules for the Madras State and Subordinate Services as adopted by the Board but who have passed the Lower Grade Typewriting.                                                                                                                                                             | 80        | 90                                           |
| (b) Typists who are not qualified under the General Rules for the Madras State and Subordinate Services as adopted by the Board but whose Secondary School-Leaving Certificates show that they took the examination on the completion of their school course up to and including Form VI and have passed the Higher Grade Test in Typewriting. | 60-5-85   | 90-5-115                                     |
| (c) Other unqualified typists who do not come under any of the above categories.                                                                                                                                                                                                                                                               | 36-2-50   | 64-2-80                                      |
| 239 Steno-typists .. .. .                                                                                                                                                                                                                                                                                                                      | 60-5-110  | 90-5-140<br>(Graduates to start on Rs. 105). |
| 240 Statistical Assistant .. .. .                                                                                                                                                                                                                                                                                                              | 150-5-200 | 200-5-240<br>-10-270.                        |
| 241 Computer .. .. .                                                                                                                                                                                                                                                                                                                           | 90-5-140  | 125-5-175                                    |

## ANNEXURE II.

*Dearness Allowance.*

| Pay limit for eligibility.      | Rate of D.A.                                    |
|---------------------------------|-------------------------------------------------|
| Less than Rs. 150 .. .. .       | 10                                              |
| From Rs. 150 to Rs. 300 .. .. . | 20                                              |
| From Rs. 301 to Rs. 320 .. .. . | Amount by which the pay falls short of Rs. 320. |

NOTE.—For the purpose of computing the pay for the grant of dearness allowance, pay shall include special pay and personal pay.

## ANNEXURE III.

*Madras House Allowance.*

| Group.                                                                                                                                                                                                                                                                                             | Employees.           | Maximum limit of monthly house allowance. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|
| (1)                                                                                                                                                                                                                                                                                                | (2)                  | (3)                                       |
|                                                                                                                                                                                                                                                                                                    | <i>Gazetted.</i>     |                                           |
| I. Officers the minimum pay of whose time-scale or whose graded or fixed pay is not less than Rs. 450.                                                                                                                                                                                             |                      | 75                                        |
| II. All officers not included in Group I .. .. .                                                                                                                                                                                                                                                   |                      | 50                                        |
|                                                                                                                                                                                                                                                                                                    | <i>Non-gazetted.</i> |                                           |
| III. Employees in the city drawing an actual pay exceeding Rs. 200 per mensem who otherwise satisfy the conditions of Madras House Allowance Scheme.                                                                                                                                               |                      | 25                                        |
| Employees on a pay exceeding Rs. 200 but not exceeding Rs. 500 in the revised scales and who are ordinarily eligible for the Madras House Allowance Scheme may opt for the House Rent Allowance Scheme if that is more advantageous to them than the Madras House Allowance Scheme and vice-versa. |                      |                                           |

*House Rent Allowance.*

| Name of place and group.                                                                   | Pay limits for eligibility.                                                                   | Rates of house rent allowance. |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------|
| (1)                                                                                        | (2)                                                                                           | (3)                            |
|                                                                                            | I                                                                                             |                                |
| Madras City Madras Electricity System distribution branch at Alandur, Pallavaram Tambaram. | (i) Employees in receipt of a pay of less than Rs. 90 per mensem.                             | Rs. 10 per mensem.             |
|                                                                                            | (ii) Employees in receipt of a pay of Rs. 90 or more but below Rs. 300 per mensem.            | Rs. 15 per mensem.             |
|                                                                                            | (iii) Employees in receipt of a pay of Rs. 30 and above but not exceeding Rs. 500 per mensem. | Rs. 20 per mensem.             |

NOTE.—Those in receipt of a pay exceeding Rs. 500 per mensem but not exceeding Rs. 520 per mensem will be allowed a house rent allowance which together with their pay will give total of Rs. 520 per mensem.

## House Rent Allowance—cont.

| Name of place and group.                                                                                                                                                                                                                            | Pay limits for eligibility.                                                                                                                                                                                                       | Rates of House Rent Allowance.                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| (1)                                                                                                                                                                                                                                                 | (2)                                                                                                                                                                                                                               | (3)                                                         |
| II                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                   |                                                             |
| Mufassal Municipalities Kancheepuram, Vellore, Salem, Coimbatore, Cuddalore, Thanjavur, Kumbakonam, Nagapattinam, Nagercoil, Tiruchirappalli, Srirangam, Madurai, Dindigul, Tuticorin, Tirunelveli, Palaymakottai, Erode, Tiruppur and Rajapalayam. | (i) Employees in receipt of pay of less than Rs. 75 per mensem.<br>(ii) Employees in receipt of pay of Rs. 75 or more but below Rs. 100 per mensem.<br>(iii) Employees in receipt of pay of Rs. 100 but below Rs. 125 per mensem. | Rs. 5 per mensem.<br>Rs. 7 per mensem.<br>Rs. 9 per mensem. |
| Staff at Ganapathi village, Coimbatore. Staff working in Pannalalai receiving station. Staff working in Vellore substation. Office of the Assistant Engineer (Electrical) Salem and of the Assistant Engineer (Erection) Salem.                     | (iv) Employees in receipt of pay of Rs. 125 but not exceeding Rs. 300 per mensem.                                                                                                                                                 | Rs. 12 per mensem.                                          |
| Staff at Katpadi.                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                   |                                                             |
| NOTE.—Those in receipt of a pay exceeding Rs. 300 per mensem but not exceeding Rs. 312 per mensem will be allowed a house rent allowance which together with their pay will give a total of Rs. 312 per mensem.                                     |                                                                                                                                                                                                                                   |                                                             |
| Revenue Divisional Headquarters which are neither municipalities nor headquarters of taluks—Ranipet, Uthirapatti, Ariyalur and Cheranmahadevi.                                                                                                      | All employees on a pay not exceeding Rs. 200 per mensem.                                                                                                                                                                          | Rs. 3 per mensem.                                           |
| All other municipalities and taluk headquarters including those in the areas transferred from the erstwhile Travancore Cochin State not included in Group II above.                                                                                 |                                                                                                                                                                                                                                   |                                                             |
| NOTE.—Those in receipt of a pay exceeding Rs. 200 per mensem but not exceeding Rs. 203 per mensem will be allowed a house rent allowance which together with their pay will give a total of Rs. 203 per mensem.                                     |                                                                                                                                                                                                                                   |                                                             |

## APPENDIX Q.

## Review of Electrical accidents for 1961-62.

| System/Licensee.                               | Electrical accidents to departmental Employees. |                                     |                   |                         | Electrical accidents to Public due to Supply works. |                   |                        | Electrical accidents in consumers' premises. |                   |      |                      | Total number of casual Accs. |
|------------------------------------------------|-------------------------------------------------|-------------------------------------|-------------------|-------------------------|-----------------------------------------------------|-------------------|------------------------|----------------------------------------------|-------------------|------|----------------------|------------------------------|
|                                                | (1) Unauthorised working.                       | (2) Non-compliance of safety rules. | (3) Other causes. | (4) Snapped conductors. | (5) Intentional or Inquisitive climbing.            | (6) Other causes. | (7) Careless handling. | (8) Faulty equipment wiring.                 | (9) Other causes. | (10) |                      |                              |
| <b>A. Madras State Electricity Board area—</b> |                                                 |                                     |                   |                         |                                                     |                   |                        |                                              |                   |      |                      |                              |
| 1 Fatal                                        | 5                                               | 10                                  | 1                 | 20                      | 38                                                  | 24                | 12                     | 9                                            | 8                 | 137  | 148                  |                              |
| 2 Non-fatal                                    | 3                                               | 23                                  | 17                | 8                       | 97                                                  | 30                | 7                      | 10                                           | 5                 | 200  | 208                  |                              |
| <b>B. Licensee and local authorities—</b>      |                                                 |                                     |                   |                         |                                                     |                   |                        |                                              |                   |      |                      |                              |
| 1 Fatal                                        | ..                                              | 2                                   | ..                | 5                       | 4                                                   | 3                 | 3                      | 6                                            | ..                | 23   | 29<br>(2 non-fatal). |                              |
| 2 Non-fatal                                    | ..                                              | 7                                   | 1                 | 1                       | 3                                                   | 3                 | 2                      | 2                                            | ..                | 19   | 20                   |                              |

| Serial number and name of undertaking. | Year of operation. | Year of accounts to which the figures refer. | System and supply of voltage. | Total generation or purchase cost per unit in N.P. | Working cost per unit sold in N.P. | Revenue per unit sold in Naye paise. |                         |                        |                          |
|----------------------------------------|--------------------|----------------------------------------------|-------------------------------|----------------------------------------------------|------------------------------------|--------------------------------------|-------------------------|------------------------|--------------------------|
|                                        |                    |                                              |                               |                                                    |                                    | Domestic.                            |                         | Commercial.            |                          |
|                                        |                    |                                              |                               |                                                    |                                    | Heat and power.<br>(7)               | Lights and fans.<br>(8) | Heat and power.<br>(9) | Lights and fans.<br>(10) |
| 1 Kumbakonam .. ..                     | 29                 | 1960-61 ..                                   | A.C. 400/220 V/50 cycles.     | 5.61                                               | 19.24                              | 11.00                                | 31.00                   | 30.00                  | 28.00                    |
| 2 Nagapattinam .. ..                   | 26                 | .. 1960-61 ..                                | Do.                           | 5.52                                               | 12.06                              | 21.00                                | 30.00                   | 11.00                  | 22.00                    |
| 3 Salem-Erode .. ..                    | 29                 | .. 1960-61 ..                                | Do.                           | 4.70                                               | 9.61                               | 11.400                               | 21.849                  | 11.323                 | 9.819                    |
| 4 Tirunelveli-Tuticorin..              | 28                 | .. 1960-61 ..                                | Do.                           | 4.70                                               | 10.38                              | 13.9                                 | 27.3                    | 11.1                   | 27.7                     |
| 5 Vellore .. ..                        | 29                 | .. 1960-61 ..                                | Do.                           | 5.05                                               | 12.14                              | 25.8                                 |                         | 19.4                   |                          |
| 6 Mayavaram - Mannargudi - Tiruvarur.  | 27                 | .. 1960-61 ..                                | Do.                           | 5.53                                               | 16.62                              | 15.19                                | 29.83                   | 13.41                  | 29.01                    |
| 7 Tiruchirappalli-Srirangam ..         | 33                 | .. 1960-61 ..                                | Do.                           | 4.13                                               | 9.69                               | 13.50                                | 28.21                   | 14.95                  | 27.50                    |

**Accounts not received.**

|                      | Industrial.                   |                  | Public lighting. | Traction. | Irrigation. | Public water.<br>works and<br>sewage<br>pumping. | Supply in<br>bulk to<br>distributing<br>licensees. |
|----------------------|-------------------------------|------------------|------------------|-----------|-------------|--------------------------------------------------|----------------------------------------------------|
|                      | Low and<br>medium<br>voltage. | High<br>voltage. |                  |           |             |                                                  |                                                    |
|                      | (11)                          | (12)             | (13)             | (14)      | (15)        | (16)                                             | (17)                                               |
| 1 Kumbakonam .. ..   | 11-00                         | 11-00            | 14-00            | ..        | 10-00       | 11-00                                            | ..                                                 |
| 2 Nagapattinam .. .. | 12-00                         | 6-00             | 13-00            | ..        | 16-00       | 8-00                                             | ..                                                 |
| 3 Salem-Erode .. ..  | 7-945                         | 5-830            | 7-856            | ..        | 7-746       | ..                                               | ..                                                 |

E.B.R.—10

|                                              | Other<br>reserves. | Total<br>capacity of<br>generation or<br>receiving<br>plants. | Maximum<br>load on the<br>feeders.                     | Total<br>units<br>generated<br>for the<br>year. | Total<br>units<br>purchased<br>for the<br>year. | Load<br>factor.     | Total units<br>sold in<br>the year. | Total<br>number of<br>consumers<br>at the end<br>of the year. | Dividend<br>declared<br>on ordinary<br>shares. |
|----------------------------------------------|--------------------|---------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------|-------------------------------------|---------------------------------------------------------------|------------------------------------------------|
|                                              | (26)               | (27)                                                          | (28)                                                   | (29)                                            | (30)                                            | (31)<br>(PER CENT.) | (32)                                | (33)                                                          | (34)                                           |
| 1 Kumbakonam                                 | ..                 | 6,71,156                                                      | 6,288 KVA                                              | ..                                              | 1,22,54,841                                     | 24.50               | 97,73,254                           | 23,044                                                        | 12 per cent,<br>taxable.                       |
| 2 Nagapattinam                               | ..                 | 1,65,983                                                      | 3,696 KVA                                              | ..                                              | 76,72,048                                       | 34.43               | 70,56,225                           | 6,873                                                         | 12 per cent,<br>taxable.                       |
| 3 Salem-Erode ..                             | ..                 | 17,63,054                                                     | S.E.E.D =                                              | ..                                              | 3,95,67,561                                     | 61.71               | 3,57,45,700                         | 23,504                                                        | 12 per cent,<br>taxable.                       |
|                                              |                    |                                                               | 22 KV/6.6 KV<br>2,090 KVA                              |                                                 |                                                 |                     |                                     |                                                               |                                                |
|                                              |                    |                                                               | 22 KV/415 V.<br>13,066 KVA<br>6 KV/415 V.<br>3,760 KVA |                                                 |                                                 |                     |                                     |                                                               |                                                |
| 4 Tirunelveli-Tuticorin                      | ..                 | 10,02,939                                                     | 3,000 KVA                                              | ..                                              | 2,86,13,849                                     | 49.79               | 2,52,99,472                         | 19,071                                                        | 12 per cent,<br>taxable.                       |
| 5 Vellore                                    | ..                 | 4,72,453                                                      | 8,830 KV                                               | ..                                              | 1,94,64,038                                     | 38.40               | 1,69,15,388                         | 13,800                                                        | 14.29 per<br>cent,<br>taxable.                 |
| 6 Mayavaram - Mannargudi -<br>Tiruvannamalai | ..                 | 6,204 KW                                                      | 258.00 KVA                                             | ..                                              | 2,22,67,442                                     | 34.02               | 1,84,93,862                         | 26,714                                                        | 9 per cent,<br>taxable.                        |
| 7 Tiruchirappalli-Srirangam ..               | ..                 | 39,39,946                                                     | 19,824.00KVA                                           | ..                                              | 7,01,38,489                                     | 30.11               | 6,58,30,878                         | 34,682                                                        | 9 per cent,<br>taxable.                        |
| 8 Shencottah ..                              | ..                 | ..                                                            | Accounts not received.                                 | ..                                              | ..                                              | ..                  | ..                                  | ..                                                            | ..                                             |

## APPENDIX R-1.

TABLE OF ELECTRIC SUPPLY COSTS AND RECORDS—LOCAL AUTHORITIES—1961-62.

| Serial number and name of the electrical undertaking. | Year of operation. | Year of accounts to which the figure relates. | Revenue per unit sold in naya paise—cont. |                  |        |                               |                                                            | Loans repaid during the year. |                             |                  |        |      |      |      |      |
|-------------------------------------------------------|--------------------|-----------------------------------------------|-------------------------------------------|------------------|--------|-------------------------------|------------------------------------------------------------|-------------------------------|-----------------------------|------------------|--------|------|------|------|------|
|                                                       |                    |                                               | Special contract.                         | Street lighting. | Total. | System and voltage of supply. | Total generation or purchase cost per unit. in naya paise. |                               | Working cost per unit sold. | Lights and fans. | Power. |      |      |      |      |
| (1)                                                   | (2)                | (3)                                           | (4)                                       | (5)              | (6)    | (7)                           | (8)                                                        | (9)                           | (10)                        | (11)             | (12)   | (13) | (14) | (15) | (16) |
| 1 Coimbatore .. .. .                                  | 1923               | 1960-61                                       | AC/400/230-V.<br>50 Cycles.               | 5.06             | 11.64  | 18.34                         | 6.31                                                       |                               |                             |                  |        |      |      |      |      |
| 2 Madurai .. .. .                                     | 1929               | Do.                                           | Do.                                       | 4.78             | 8.69   | 19.04                         | 6.18                                                       |                               |                             |                  |        |      |      |      |      |
| 3 Pollachi .. .. .                                    | 1922               | Do.                                           | Do.                                       | 5.93             | 11.13  | 20.17                         | 5.97                                                       |                               |                             |                  |        |      |      |      |      |
| 4 Thanjavur .. .. .                                   | 1928               | Do.                                           | Do.                                       | 5.47             | 11.08  | 18.40                         | 6.21                                                       |                               |                             |                  |        |      |      |      |      |
| 5 Karur .. .. .                                       | 1920               | Do.                                           | Do.                                       | 5.78             | 10.22  | 22.85                         | 5.97                                                       |                               |                             |                  |        |      |      |      |      |

| Serial number and name of the electrical undertaking. | Revenue per unit sold in naya paise—cont. |                  |                             |                               |                                                            | Total expenditure against revenue. | Revenue from electric supply. | Total revenue from working. | Net profit (+) or (—) to the end of the year as per general balance sheet. | Loans repaid during the year. |                             |                  |        |      |      |
|-------------------------------------------------------|-------------------------------------------|------------------|-----------------------------|-------------------------------|------------------------------------------------------------|------------------------------------|-------------------------------|-----------------------------|----------------------------------------------------------------------------|-------------------------------|-----------------------------|------------------|--------|------|------|
|                                                       | Special contract.                         | Street lighting. | Total.                      | System and voltage of supply. | Total generation or purchase cost per unit. in naya paise. |                                    |                               |                             |                                                                            |                               | Working cost per unit sold. | Lights and fans. | Power. |      |      |
| (1)                                                   | (2)                                       | (3)              | (4)                         | (5)                           | (6)                                                        | (7)                                | (8)                           | (9)                         | (10)                                                                       | (11)                          | (12)                        | (13)             | (14)   | (15) | (16) |
| 1 Coimbatore .. .. .                                  | 1923                                      | 1960-61          | AC/400/230-V.<br>50 Cycles. | 5.06                          | 11.64                                                      | 18.34                              | 6.31                          |                             |                                                                            |                               |                             |                  |        |      |      |
| 2 Madurai .. .. .                                     | 1929                                      | Do.              | Do.                         | 4.78                          | 8.69                                                       | 19.04                              | 6.18                          |                             |                                                                            |                               |                             |                  |        |      |      |
| 3 Pollachi .. .. .                                    | 1922                                      | Do.              | Do.                         | 5.93                          | 11.13                                                      | 20.17                              | 5.97                          |                             |                                                                            |                               |                             |                  |        |      |      |
| 4 Thanjavur .. .. .                                   | 1928                                      | Do.              | Do.                         | 5.47                          | 11.08                                                      | 18.40                              | 6.21                          |                             |                                                                            |                               |                             |                  |        |      |      |
| 5 Karur .. .. .                                       | 1920                                      | Do.              | Do.                         | 5.78                          | 10.22                                                      | 22.85                              | 5.97                          |                             |                                                                            |                               |                             |                  |        |      |      |

# APPENDIX R-1—cont.

TABLE OF ELECTRIC SUPPLY COSTS AND RECORDS—LOCAL AUTHORITIES 1961-62

| Serial number and name of the electrical undertaking. | Total capital expenditure up to the end of the year. | Total capacity in K.V.A. | Maximum load on the feeders in K.W. | Units generated for the year. | Units purchased for the year. | Total number of units sold. | Total number of consumers at the end of the year. |
|-------------------------------------------------------|------------------------------------------------------|--------------------------|-------------------------------------|-------------------------------|-------------------------------|-----------------------------|---------------------------------------------------|
|                                                       | (17)                                                 | (18)                     | (19)                                | (20)                          | (21)                          | (22)                        | (23)                                              |
| 1 Coimbatore .. ..                                    | 38,43,107                                            | 6,550                    | 5,500                               | Nil.                          | 1,84,72,652                   | 1,58,97,935                 | 17,204                                            |
| 2 Madurai .. ..                                       | 55,85,739                                            | 10,661                   | 8,063                               | Nil.                          | 3,19,43,403                   | 2,75,53,911                 | 27,783                                            |
| 3 Pollachi .. ..                                      | 5,27,799                                             | 1,425                    | 1,092                               | Nil.                          | 39,67,055                     | 32,38,568                   | 3,153                                             |
| 4 Thanjavur .. ..                                     | 12,05,421                                            | 1,650                    | 1,560                               | Nil.                          | 60,00,329                     | 49,37,777                   | 6,047                                             |
| 5 Karur .. ..                                         | 5,01,718                                             | 975                      | 770                                 | Nil.                          | 31,28,819                     | 27,85,347                   | 3,338                                             |

Notes.—(1) All figures are calculated on a unit w.m. basis according to standard practices.

(2) Total expenditure including loan charges but less service connection charges.

(3) Breakling charges for service connections are given on the debit side of Revenue Account.

## APPENDIX R-2.

STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDED 31ST MARCH 1962—COMPANY LICENSEES.

| Serial number and name of the licensee.                | Number of units generated. | Number of units purchased. | Number of units sold. | Maximum demand in K.W.                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------|----------------------------|----------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1)                                                    | (2)                        | (3)                        | (4)                   | (5)                                                                                                                                                                                                                                                                                                                                               |
| 1 Tirunelveli - Tuticorin ..                           | ..                         | 31,031,790                 | 27,321,195            | 1st Point .. 5,920 KVA.<br>2nd Point .. 2,120 "<br>3rd Point .. 52-48 "<br>4th Point .. 55<br>9,620 KVA.                                                                                                                                                                                                                                          |
| 2 Shencottah Electric Supply Agency.                   | ..                         | 36,391,440                 | 31,683,928            | Tiruchirappalli. 7,680 K.W. (April 1961 and November 1961).                                                                                                                                                                                                                                                                                       |
| 3 Tiruchirappalli - Srirangam.                         | Nil.                       | 47,201,300                 | 43,953,684            | Mayunur .. 576 KW. (April 1961).<br>Dalmiapuram.. 1,300 KW. Do.<br>Thathiangarpet 989-58 K.V.A. (November 1961).<br>Tiruvannamalai. 3,375 KW. (November 1961)<br>Vallam .. 190 KW. Do.<br>Mayuram. 1,900 KW. (October 1961).<br>Arantangi.. 278-1 KVA. (March 1962).<br>Pattukkottai. 1,060 KW. (March 1962).<br>Orathanad. 88-32 KW. (May 1961). |
| 4 Mayuram-Mannargudi-Tiruvannamalai.                   | Nil.                       | 23,513,195                 | 19,928,431            | 4,355<br>2,325-0<br>2,640 K.W.                                                                                                                                                                                                                                                                                                                    |
| 5 Kumbakonam Electric Supply Corporation.              | Nil.                       | 13,372,400                 | 10,314,880            | ..                                                                                                                                                                                                                                                                                                                                                |
| 6 Nagapattinam Electric Supply Company.                | Nil.                       | 76,963,371-0               | 7,026,813             | ..                                                                                                                                                                                                                                                                                                                                                |
| 7 Vellore Electric Corporation Limited, Vellore point. | Nil.                       | 12,204,318-0               | 10,394,644-9          | ..                                                                                                                                                                                                                                                                                                                                                |
| 8 Renipet Point ..                                     | Nil.                       | 99,527,731-0               | 83,053,364-2          | 2,190                                                                                                                                                                                                                                                                                                                                             |
| 9 Salem-Erode Electric Distribution Company Limited.   | Nil.                       | 43,842,497                 | 39,761,435            | 8,928 (in November 1961).                                                                                                                                                                                                                                                                                                                         |

## APPENDIX R-2—cont.

STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDED 31ST MARCH 1962—COMPANY LICENSEES—cont.  
Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1961-62.

|                                           | Municipal.                                  | Textiles         | Cement works. | Mines. | Tea Estates. | Chemicals.    | Steel rolling mills. | Small Industries. |
|-------------------------------------------|---------------------------------------------|------------------|---------------|--------|--------------|---------------|----------------------|-------------------|
|                                           | (6)                                         | (7)              | (8)           | (9)    | (10)         | (11)          | (12)                 | (13)              |
| 1 Tirunelveli - Tuticorin                 | (a) 126,363                                 | 4,383,331        | ..            | ..     | ..           | ..            | ..                   | 7,368,287         |
| (b)                                       | 146,250                                     | 5,128,110        | ..            | ..     | ..           | ..            | ..                   | 849,400           |
| (c)                                       | Rs. 48,000                                  | Rs. 563,520      | ..            | ..     | ..           | ..            | ..                   | 756,000           |
| (d)                                       | 170                                         | 4                | ..            | ..     | ..           | ..            | ..                   | 712               |
| 2 Eboocottah Electric Supply Agency.      | (a) 685,783                                 | 717,468          | ..            | ..     | ..           | 83            | ..                   | 5,417,876         |
| (b)                                       | 898,839                                     | 2,240,414 50     | ..            | ..     | ..           | 262,379-01    | ..                   | 4,164,634.50      |
| (c)                                       | Rs. 84,568-84                               | 168,409-47       | ..            | ..     | ..           | Rs. 54,575-00 | ..                   | Rs. 2,49,152-16   |
| (d)                                       | 373                                         | 55               | ..            | ..     | ..           | 18            | ..                   | 589               |
| 3 Tiruchi - Srirangam ..                  | (a) 615                                     | 786              | 134.          | ..     | ..           | 766           | ..                   | 10,099            |
| (b)                                       | 2,567,942                                   | 3,098,487        | 1,512,446     | ..     | ..           | 2,035,112     | ..                   | 12,068,468        |
| (c)                                       | Rs. 213,388                                 | 121,531          | Rs. 99,206    | ..     | ..           | Rs. 124,287   | ..                   | Rs. 1,432,263     |
| (d)                                       | 116                                         | 1                | 3             | ..     | ..           | 3             | ..                   | 2,209             |
| 4 Mayuram-Mannargudi-Tiruvannamalai.      | (a) 163                                     | ..               | ..            | ..     | ..           | ..            | ..                   | 9,413             |
| (b)                                       | 440,487                                     | ..               | ..            | ..     | ..           | ..            | ..                   | 8,008,583         |
| (c)                                       | Rs. 57,183                                  | ..               | ..            | ..     | ..           | ..            | ..                   | Rs. 965,242       |
| (d)                                       | 74                                          | ..               | ..            | ..     | ..           | ..            | ..                   | 1,054             |
| 5 Kumbakonam Electric Supply Corporation. | (a) 59,540                                  | ..               | ..            | ..     | ..           | ..            | ..                   | 4,511.48          |
| (b)                                       | 357,599                                     | ..               | ..            | ..     | ..           | ..            | ..                   | 3,638,232         |
| (c)                                       | Rs. Total Revenue under Column (7) and (17) | Rs. 1,31,745-25. | ..            | ..     | ..           | ..            | ..                   | Rs. 456,912-89    |
| (d)                                       | 1                                           | ..               | ..            | ..     | ..           | ..            | ..                   | 774               |

## APPENDICES

|                                                         |              |           |    |    |    |                |                |                |
|---------------------------------------------------------|--------------|-----------|----|----|----|----------------|----------------|----------------|
| 6 Nagapattinam Electric Supply Company.                 | (a) 17,540   | ..        | .. | .. | .. | ..             | 3,262,080      | 1,203,927      |
| (b) 11,423-0                                            | ..           | ..        | .. | .. | .. | ..             | 3,804,412      | 8,422,930      |
| (c) Rs. 3,356-22                                        | ..           | ..        | .. | .. | .. | ..             | Rs. 242,165-91 | Rs. 97,533-23  |
| (d) 26                                                  | ..           | ..        | .. | .. | .. | ..             | 1              | 137            |
| 7 Vellore Electric Corporation, Limited, Vellore point. | (a) 126,300  | ..        | .. | .. | .. | ..             | ..             | 2,823,326      |
| (b) 4,351,824                                           | ..           | ..        | .. | .. | .. | ..             | ..             | 2,262,453-9    |
| (c) Rs. 60,021-10                                       | ..           | ..        | .. | .. | .. | ..             | ..             | 241,792-20     |
| (d) 1                                                   | ..           | ..        | .. | .. | .. | ..             | ..             | 432            |
| 8 Ranipet point ..                                      | (a) 80,840   | ..        | .. | .. | .. | 1,326,086      | ..             | 1,968,218      |
| (b) 225,496-0                                           | ..           | ..        | .. | .. | .. | 2,526,550-6    | ..             | 2,158,199-7    |
| (c) Rs. 30,376-66                                       | ..           | ..        | .. | .. | .. | Rs. 141,169-31 | ..             | Rs. 231,445-32 |
| (d) 3                                                   | ..           | ..        | .. | .. | .. | 1              | ..             | 288            |
| 9 Salem-Erode Electric city Distribution.               | (a) 291,970  | 3,541,526 | .. | .. | .. | ..             | ..             | 11,622,782     |
| (b) 947,103                                             | 10,920,078   | ..        | .. | .. | .. | ..             | ..             | 15,948,475     |
| (c) 70,716                                              | Rs. 5,90,705 | ..        | .. | .. | .. | ..             | ..             | Rs. 1,361,719  |
| (d) 2                                                   | 3            | ..        | .. | .. | .. | ..             | ..             | 385            |

## APPENDIX R-2—cont.

STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDED 31ST MARCH 1962—COMPANY LICENSEES—cont.

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1961-62—cont.

| Electricity.                                            | Government departments. | Panchayat boards. | Agricultural. | Domestic lighting and power. | Miscellaneous. | Total.           |
|---------------------------------------------------------|-------------------------|-------------------|---------------|------------------------------|----------------|------------------|
| (14)                                                    | (15)                    | (16)              | (17)          | (18)                         | (19)           | (20)             |
| 1 Tirunelveli - Tuticorin Electric Supply Company, Ltd. | ..                      | ..                | 732-972       | 10,855-541                   | ..             | 23,366-494       |
| (a) ..                                                  | ..                      | ..                | ..            | ..                           | ..             | ..               |
| (b) ..                                                  | ..                      | ..                | 854-100       | 20,343-335                   | ..             | 27,321-195       |
| (c) ..                                                  | ..                      | ..                | Rs. 92,000    | Rs. 16,08,000                | ..             | Rs. 3,067,520    |
| (d) ..                                                  | ..                      | ..                | 180           | 20,468                       | ..             | 21,534           |
| 2 Shencottah Electric Supply Agency.                    | 981-242                 | ..                | 1,346-831     | 17,262-111                   | 2,600-915      | 28,147-507       |
| (a) 264-459                                             | ..                      | ..                | ..            | ..                           | ..             | ..               |
| (b) 1101-530-00                                         | 3,580,212-05            | ..                | 68,759-00     | 98,74,049-12                 | 95,00,110-27   | 31,683,927-90    |
| (c) Rs. 62,846-29                                       | 84,984-60               | ..                | Rs. 5,909-63  | 19,06,234-01                 | 907,046-10     | 3,724,275-30     |
| (d) 3                                                   | 93                      | ..                | 39            | 29,844                       | 57             | 31,076           |
| 3 Tiruchirappalli—Srirangam.                            | 500                     | 94                | 9,232         | 15,228                       | 1,032          | 38,816           |
| (a) 330                                                 | ..                      | ..                | ..            | ..                           | ..             | ..               |
| (b) 291,977                                             | 709,489                 | 1,262,584         | 7,750,068     | 10,168,039                   | 34,71,079      | 43,953,684       |
| (c) Rs. 60,597                                          | Rs. 1,45,321            | 152,790           | Rs. 696,288   | Rs. 27,88,360                | Rs. 266,713    | Rs. 6,1007-44    |
| (d) 36                                                  | 156                     | 385               | 2,946         | 31,289                       | 146            | 37,290           |
| 4 Mayavaram-Mannargudi-Tiruvannamalai.                  | 207                     | 462               | 1,284         | 12,590                       | 2,883          | 27,143           |
| (a) 141                                                 | ..                      | ..                | ..            | ..                           | ..             | ..               |
| (b) 412,265                                             | 147,939                 | 1,263,390         | 561,101       | 6,391,600                    | 23,22,946      | 19,828,431       |
| (c) Rs. 87,743                                          | Rs. 42,244              | Rs. 163,075       | Rs. 55,652    | Rs. 19,57,579                | Rs. 173,059    | Rs. 3,501,777    |
| (d) 59                                                  | 250                     | 546               | 240           | 26,762                       | 133            | 29,218           |
| 5 Kumbakonam Electric Supply Company.                   | 97-000                  | 196-380           | 661-02        | 9,180-06                     | Not furnished. | 14,863-27        |
| (a) 5,779                                               | ..                      | ..                | ..            | ..                           | ..             | ..               |
| (b) 152-448                                             | 178,577                 | 636-300           | 189,564       | 4,852,542                    | 252,618        | 10,314,880       |
| (c) Rs. 15,02,834-57*                                   | Rs. 7,42,001            | Rs. 1,06,001      | Rs. 21,060-01 | vide colm. 15                | Rs. 20,995-08  | Rs. 2,103,547-80 |
| (d) 17                                                  | 101                     | 171               | 192           | ..                           | Not furnished. | 25,021           |

\* Total Revenue realised under columns 15, 16, and 19.

|                                                         |               |               |                 |                 |                 |                  |            |
|---------------------------------------------------------|---------------|---------------|-----------------|-----------------|-----------------|------------------|------------|
| 6 Nagapattinam Electric Supply Company, Ltd.            | 38-710        | 77-920        | 9-500           | 107-625         | 2,538-675       | 614-770          | 3,370,757  |
| (a) 110,444                                             | ..            | ..            | ..              | ..              | ..              | ..               | ..         |
| (b) 24,297-07                                           | 70,329        | 2,937         | 17,760          | 1,230,611       | 935,604         | 7,025,813        | ..         |
| (c) Rs. 24,297-07                                       | Rs. 18,494-17 | 571-13        | Rs. 3,141-98    | Rs. 3,80,942-62 | Rs. 1,21,396-41 | Rs. 8,91,889-34  | ..         |
| (d) 10                                                  | 38            | 11            | 28              | 5,799           | 1,403           | 7,453            | ..         |
| 7 Vellore Electric Corporation limited, Vellore point.  | 70-830        | 206-785       | 71,915          | 2,542-093       | 3,754-551       | 896-401          | 10,492-201 |
| (a) ..                                                  | ..            | ..            | ..              | ..              | ..              | ..               | ..         |
| (b) 179,381                                             | 3,53,488      | 208,723-6     | 1,951,660-7     | 26,645,240-4    | 2,358,514-9     | 10,394,644-9     | ..         |
| (c) 17,597-92                                           | Rs. 18,043-51 | Rs. 31,330-52 | 1,66,831-16     | Rs. 7,40,306-49 | Rs. 2,30,177-04 | Rs. 15,74,899-94 | ..         |
| (d) 6                                                   | 107           | 22            | 801             | 8,552           | 46              | 9,967            | ..         |
| 8 Ranipet point ..                                      | 7-080         | 27-938        | 22-970          | 2,276-642       | 1,452-390       | ..               | 7,162,164  |
| (a) ..                                                  | ..            | ..            | ..              | ..              | ..              | ..               | ..         |
| (b) 13,529                                              | 55,009-0      | 89,864        | 2,206,663-9     | 1,030,542-6     | ..              | 8,305,354-2      | ..         |
| (c) Rs. 2,413-68                                        | 15,252-40     | Rs. 13,542-46 | Rs. 2,18,366-75 | Rs. 3,07,237-66 | ..              | Rs. 9,59,803-24  | ..         |
| (d) 2                                                   | 31            | 6             | 849             | 4,122           | ..              | 5,312            | ..         |
| 9 Salem-Erode Electricity Distribution Company limited. | 86-575        | ..            | 59-89           | 3,743-185       | 12,569-142      | ..               | 31,915-069 |
| (a) ..                                                  | ..            | ..            | ..              | ..              | ..              | ..               | ..         |
| (b) 279,457                                             | ..            | 1,92,532      | 1,704,734       | 9,769,056       | ..              | 39,761,435       | ..         |
| (c) Rs. 27,685                                          | ..            | Rs. 16,995    | 1,33,813        | Rs. 2,077,710   | ..              | 42,79,543        | ..         |
| (d) 7                                                   | ..            | 17            | 871             | 24,667          | ..              | 26,452           | ..         |

Notes.—(a) Connected load in K. W.

(b) Consumption.

(c) Revenue in rupees.

(d) Number of consumers.

## APPENDIX R. 2—cont.

STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDED 31ST MARCH 1962—COMPANY LICENSEES—cont.

Total connected load in K.W. with consumption, Revenue and number of consumers at the end of 1961-62.

| Serial number and name of the licensee.          | Number of High tension and Low tension consumers as on 31st March 1962. |                   | Number of agricultural pumps and total horse-power. |                   | Number of rural industries and total horse-power. |                   | Length of lines in K.M.    |                   |              |                    |                   |
|--------------------------------------------------|-------------------------------------------------------------------------|-------------------|-----------------------------------------------------|-------------------|---------------------------------------------------|-------------------|----------------------------|-------------------|--------------|--------------------|-------------------|
|                                                  | As on 31st March, 1962.                                                 |                   | Connected during the year.                          |                   | As on 31st March, 1962.                           |                   | Connected during the year. |                   |              |                    |                   |
|                                                  | High tension. (22)                                                      | Low tension. (23) | Number. (24)                                        | Horse-power. (25) | Number. (26)                                      | Horse-power. (27) | Number. (28)               | Horse-power. (29) | Number. (30) | High tension. (32) | Low tension. (33) |
| 1 Tirunelveli-Tuticorin Electric Supply Company. | 9                                                                       | 21,525            | 180                                                 | 528.5             | 35                                                | 133.174           | 21                         | 283.702           | 5            | 141.214 K.M.       | 158.476 K.M.      |
| 2 Shencottah Electric Supply Agency.             | 1                                                                       | 3,161             | 1                                                   | 2.25              | ..                                                | ..                | ..                         | ..                | ..           | 2 miles            | 5.3 miles.        |
| 3 Trichy-Srirangam ..                            | 16                                                                      | 37,274            | 2,946                                               | 12,309            | 421                                               | 1,600             | 2,209                      | 13,465            | 225          | 488 miles.         | 779 miles.        |
| 4 Mayuram-Mannargudi-Tiruvannur.                 | 6                                                                       | 29,112            | 240                                                 | 1,712             | 29                                                | 200               | 1,054                      | 12,551            | 65           | 433 miles.         | 747 miles.        |
| 5 Kumbakonam Electric Supply Company.            | 1                                                                       | 25,021            | 192                                                 | 886               | 24                                                | 118.5             | 774                        | 6,047.5           | 40           | 275.14 K.M.        | 522.930 K.M.      |
| 6 Nagapattinam Electric Supply Company.          | 1                                                                       | 7,452             | 16                                                  | 105.5             | ..                                                | ..                | 94                         | 1,192             | 8            | 77 miles.          | 201 K.M.          |
|                                                  |                                                                         |                   |                                                     |                   |                                                   |                   |                            |                   |              | 48 miles.          | 125 miles.        |

|                                                         |    |        |     |                |     |             |    |              |   |                 |                  |
|---------------------------------------------------------|----|--------|-----|----------------|-----|-------------|----|--------------|---|-----------------|------------------|
| 7 Vellore Electric Corporation Limited, Vellore Point.  | 7  | 9,960  | 800 | 3,320.5        | 214 | 329.5       | 77 | 1,588.4      | 7 | 77.490 K.M.     | 323.570 K.M.     |
|                                                         |    |        |     |                |     |             |    |              |   | O.H. (201.200)  | O.H. (48.140)    |
|                                                         |    |        |     |                |     |             |    |              |   | 2,444 K.M.      | 13,380 K.M.      |
|                                                         |    |        |     |                |     |             |    |              |   | (1.515) U.G.    | (8.310) U.G.     |
| 8 Ranipet Point..                                       | 1  | 5,311  | 849 | 2,276.642 K.W. | 103 | 266.32 K.W. | 19 | 195.393 K.W. | 4 | 63.841 K.M.     | 209.480 K.M.     |
|                                                         |    |        |     |                |     |             |    |              |   | (39.671) miles. | (130.166) miles. |
| 9 Salem-Erode Electricity Distribution Company Limited. | 17 | 26,435 | 871 | 4,159          | 214 | 939         | 12 | 131.5        | 1 | 120.914 K.M.    | 484.189 K.M.     |

## APPENDIX R. 2—cont.

STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDED 31ST MARCH 1962—COMPANY LICENSEES—cont.

| Serial number and<br>name of the licensee.                     | Number of Distribution<br>Transformers.                      |                                                           | Expenditure.     |                  |                  |                  | Population<br>area of<br>supply. |                                            |
|----------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|------------------|------------------|------------------|------------------|----------------------------------|--------------------------------------------|
|                                                                | Erected<br>during<br>the year<br>1961-62.<br>(34)            | Total number<br>at the end<br>of year<br>1961-62.<br>(35) | 1961-62.         | 1960-61.         | 1959-60.         | 1958-59.         |                                  |                                            |
|                                                                |                                                              |                                                           | (36)             | (37)             | (38)             | (39)             |                                  | (40)                                       |
| 1 Tirunelveli-Tuticorin...<br>Electric Supply<br>Company.      | 14                                                           | 83                                                        | --               | ..               | 26,72,988        | 26,13,189        | 25,52,439                        | 2,89,600<br>31.582<br>Sq. Km.              |
| 2 Shenocottah Electric<br>Supply Agency.                       | ..                                                           | 5                                                         | 2,22,987         | 2,16,001         | 1,96,888         | 1,85,457         | 1,81,263                         | 20,525                                     |
| 3 Tirichy-Srirangam ..                                         | 21                                                           | 307                                                       | Rs. 10,99,256    | Rs. 6,26,864     | Rs. 7,33,575     | Rs. 10,61,250    | Rs. 14,16,153                    | 19,66,429<br>(as per 1951<br>Census book.) |
| 4 Mayuram-Mannargudi-<br>Tiruvannamalai ..                     | 11                                                           | 292                                                       | Rs. 5,59,993     | Rs. 5,92,150     | Rs. 2,81,565     | Rs. 3,90,600     | Rs. 4,25,465                     | 20,41,891<br>(as per 1951<br>Census book.) |
| 5 Kumbakonam Electric<br>Supply Company.                       | 14                                                           | 150                                                       | Rs. 23,24,940.41 | Rs. 20,96,718.12 | Rs. 13,01,348.63 | Rs. 14,70,300.44 | Rs. 14,79,531.92                 | About 8 lakhs.                             |
| 6 Nazapattanam Electric<br>Supply Company Ltd.                 | 2                                                            | 37                                                        | Rs. 1,74,727.27  | Rs. 51,269       | Rs. 51,187       | Rs. 65,432       | Rs. 74,756                       | 1,60,000                                   |
| 7 Vellore Electric Corpo-<br>ration Limited,<br>Vellore Point. | 11<br>(with an<br>aggregated<br>capacity of<br>1,050 K.V.A.) | 55*                                                       | Rs. 2,82,000     | Rs. 2,01,310     | Rs. 89,070       | Rs. 1,16,760     | Rs. 2,09,000                     | 2,28,490                                   |
| 8 Ranipet Point...                                             | ..                                                           | 41                                                        | Rs. 1,53,725     | Rs. 1,50,026     | Rs. 94,189       | Rs. 1,40,891     | Rs. 1,37,485                     | 82,384<br>95.59<br>Sq. miles.              |
| 9 Salem-Erode Electricity<br>Distribution Com-<br>pany Limited | 14                                                           | 138                                                       | 16,06,157        | 5,55,278         | 5,91,002         | 3,12,516         | 6,20,272                         | 8,20,596<br>690<br>Sq. miles.              |

\* With an aggregated capacity of 5,550 K.V.A.

\* With an aggregated capacity of 5,550 K.V.A.

## APPENDIX R-3.

STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDING 31ST MARCH 1962—(LOCAL AUTHORITIES).

| Serial number and name of the licensee. | Number of units generated. | Number of units purchased. | Number of units sold. | Maximum demand in K.W. | Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1961-62. |                                     |                      |        |              |
|-----------------------------------------|----------------------------|----------------------------|-----------------------|------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------|--------|--------------|
|                                         |                            |                            |                       |                        | Municipal.                                                                                            | Textiles.                           | Cement works.        | Mines. | Tea estates. |
|                                         |                            |                            |                       |                        |                                                                                                       |                                     |                      |        |              |
| (1)                                     | (2)                        | (3)                        | (4)                   | (5)                    | (6)                                                                                                   | (7)                                 | (8)                  | (9)    | (10)         |
| 1 Coimbatore ..                         | ..                         | 2,07,73,852                | ..                    | 5,970                  | (a) 591<br>(b) 1,412,594<br>(c) Rs. 1,29,324<br>(d) 262                                               | 173<br>1,83,464<br>Rs. 10,374<br>16 | ..                   | ..     | ..           |
| 2 Karur ..                              | ..                         | 32,66,290                  | 28,88,820             | 835                    | (a) 98,240<br>(b) Rs. 3,97,134<br>(c) Rs. ..<br>(d) 64                                                | ..                                  | ..                   | ..     | ..           |
| 3 Pollachi ..                           | ..                         | 43,33,015                  | 34,25,440             | 1,088                  | (a) Rs. 43,081<br>(b) 33,198<br>(c) Rs. 4,375<br>(d) 30                                               | ..                                  | ..                   | ..     | ..           |
| 4 Thanjavur ..                          | ..                         | 61,66,260                  | 52,08,657             | 1,560                  | (a) ..<br>(b) 9,22,963.80<br>(c) Rs. 73,517.57<br>(d) 48                                              | ..                                  | 5,846<br>374.38<br>1 | ..     | ..           |
| 5 Madurai ..                            | ..                         | 2,52,94,258                | 3,04,09,576           | 9,320                  | (a) 672,160<br>(b) ..<br>(c) ..<br>(d) 353                                                            | 598,600<br>..<br>..<br>25           | ..                   | ..     | ..           |

With an aggregated capacity of 5,550 K.V.A.

## APPENDIX R-3—cont.

## STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDING 31ST MARCH 1962—(LOCAL AUTHORITIES)—cont.

Total connected load in K.W. with consumption, revenue and number of consumers at the end of 1961-62—cont.

| Serial number and name of the licensee. | Chemicals. | Steel rolling mills. | Small industries. |           | Railways.  | Govern-ment depart-ments. | Panchayat Boards. | Agri-cultural. | Domestic.    | Miscel-laneous. | Total. |
|-----------------------------------------|------------|----------------------|-------------------|-----------|------------|---------------------------|-------------------|----------------|--------------|-----------------|--------|
|                                         | (11)       | (12)                 | (13)              | (14)      | (15)       | (16)                      | (17)              | (18)           | (19)         | (20)            | (21)   |
| 1 Coimbatore                            | ..         | ..                   | (a) 5,100         | 64        | 382        | ..                        | 664               | 12,690.        | 149          | 19,813          |        |
|                                         | ..         | ..                   | (b) 4,144,911     | 238,026   | 473,313    | ..                        | 565,814           | 80,82,548      | 2,404,050    | 17,504,710      |        |
|                                         | ..         | ..                   | (c) Rs. 238,303   | 14,687    | Rs. 66,788 | ..                        | 33,349            | Rs. 14,88,982  | Rs. 3,26,018 | Rs. 33,07,825   |        |
|                                         | ..         | ..                   | (d) 648           | 2         | 151        | ..                        | 134               | 16,711         | 165          | 18,089          |        |
| 2 Karur                                 | ..         | ..                   | (a) 573,750       | 25,00     | 18,850     | ..                        | 128,860           | 1,398,204      | 862,025      | 3,102,929       |        |
|                                         | ..         | ..                   | (b) 1,242,867     | 42,286    | 33,076     | ..                        | 58,317            | 498,032        | 617,108      | 2,838,820       |        |
|                                         | ..         | ..                   | (c) ..            | ..        | ..         | ..                        | ..                | ..             | ..           | ..              |        |
|                                         | ..         | ..                   | (d) 99            | 2         | 17         | ..                        | 37                | 2,244          | 1,191        | 3,654           |        |
| 3 Pollachi                              | ..         | ..                   | (a) 1,532,840     | 25,498    | 25,750     | ..                        | 168,410           | 1,409,934      | 55,205       | 3,258,718       |        |
|                                         | ..         | ..                   | (b) 1,612,769     | 78,141    | 26,421     | ..                        | 185,079           | 1,309,142      | 170,690      | 3,425,440       |        |
|                                         | ..         | ..                   | (c) Rs. 96,484    | Rs. 9,220 | Rs. 5,903  | ..                        | Rs. 10,421        | Rs. 2,54,191   | Rs. 21,322   | 4,01,916        |        |
|                                         | ..         | ..                   | (d) 110           | 4         | 20         | ..                        | 48                | 3,119          | 12           | 3,343           |        |
| 4 Thanjavur                             | ..         | ..                   | (a) ..            | ..        | ..         | ..                        | ..                | ..             | ..           | ..              |        |
|                                         | ..         | ..                   | (b) 90,070-2      | 282,952   | [405,319   | ..                        | 39,611            | 2,046,127-76   | 1,467,536-9  | 5,260,426-66    |        |

|           |    |    |                  |               |               |    |              |                 |               |                 |  |
|-----------|----|----|------------------|---------------|---------------|----|--------------|-----------------|---------------|-----------------|--|
|           | .. | .. | (c) Rs. 4,703-50 | Rs. 13,824-56 | Rs. 35,654-41 | .. | Rs. 2,265-59 | Rs. 4,62,573-92 | Rs. 97,889-15 | Rs. 8,90,813-08 |  |
|           | .. | .. | (d) 11           | 4             | 71            | .. | 11           | 6,289           | 306           | 6,741           |  |
| 5 Madurai | .. | .. | (a) 5,220-191    | 264-459       | 981-102       | .. | 124-955      | 15,652-766      | 2,581,146     | 26,178,379      |  |
|           | .. | .. | (b) ..           | ..            | ..            | .. | ..           | ..              | ..            | ..              |  |
|           | .. | .. | (c) ..           | ..            | ..            | .. | ..           | ..              | ..            | ..              |  |
|           | .. | .. | (d) 18           | 3             | 97            | .. | 36           | 28,077          | 50            | 29,212          |  |

## APPENDIX R-3—cont.

## STATISTICAL DATA FOR THE ADMINISTRATION REPORT FOR THE YEAR ENDED 31ST MARCH 1962 (LOCAL AUTHORITIES)—cont.

| Serial number and name of the licensee. | Number of H.T. and L.T. consumers as on 31st March 1962 |              | Number of agricultural pumpsets and total horse-power. |                | Number of Rural industries and total horse-power. |                   |
|-----------------------------------------|---------------------------------------------------------|--------------|--------------------------------------------------------|----------------|---------------------------------------------------|-------------------|
|                                         | High tension.                                           | Low tension. | As on 31st March 1962.                                 |                | As on 31st March 1962.                            |                   |
|                                         | (31)                                                    | (32)         | Number.                                                | K.W.           | Number.                                           | Horse-power.      |
| 1 Coimbatore ..                         | 12                                                      | 18,077       | (23)                                                   | (24)           | (25)                                              | (26)              |
| 2 Karur ..                              | ..                                                      | 3,654        | 134                                                    | 890            | ..                                                | Additional 7 H.P. |
| 3 Pollachi ..                           | ..                                                      | 3,343        | 37                                                     | 128-880 (K.W.) | 6                                                 | 18-000 (K.W.)     |
| 4 Thanjavur ..                          | 1                                                       | 6,242        | 48                                                     | 222 (K.W.)     | 4                                                 | 15 (K.W.)         |
| 5 Madurai ..                            | 26                                                      | 29,186       | 11                                                     | 48-974         | ..                                                | ..                |
|                                         |                                                         |              | 36                                                     | 167-500        | ..                                                | ..                |

APPENDICES

| Serial number and name<br>of the licensee. | Length of lines in miles. |                 | Number of<br>distribution<br>transformers. |                                    | Expenditure. |          |          | Population<br>of area of<br>supply. |          |          |
|--------------------------------------------|---------------------------|-----------------|--------------------------------------------|------------------------------------|--------------|----------|----------|-------------------------------------|----------|----------|
|                                            | High<br>tension.          | Low<br>tension. | Erected<br>during<br>1961-62.              | Total at<br>the end of<br>1961-62. | 1961-62.     | 1960-61. | 1959-60. |                                     | 1958-59. | 1957-58. |
|                                            |                           |                 |                                            |                                    |              |          |          |                                     |          |          |

|                |                 |                  |                                                                |    |             |             |             |             |                             |
|----------------|-----------------|------------------|----------------------------------------------------------------|----|-------------|-------------|-------------|-------------|-----------------------------|
| 2 Karur ..     | 3-563 (miles)   | 52-367 (miles.)  | 1 No. 25 KVA Transformer replaced by a 100 K.V.A. Transformer. | 11 | ..          | ..          | ..          | ..          | 59,580 (as per 1961 census) |
| 3 Pollachi ..  | 7-82 K.M.       | 46-15 K.M.       | 2                                                              | 14 | ..          | ..          | ..          | ..          | 54,545 (as per 1961 census) |
| 4 Thanjavur .. | 10-2 (miles.)   | 79-1951 (miles.) | 1                                                              | 18 | 5,77,907-00 | 5,61,963-00 | 5,54,558-00 | 4,52,189-00 | 4,09,083-00                 |
| 5 Madurai ..   | 32-921 (miles.) | 148-336 (miles.) | 6                                                              | 59 | 1,99,431-48 | 3,58,190-27 | 3,73,387-80 | 3,49,242-65 | 5,20,055-21                 |

H.S.M. - 13A

APPENDICES

## APPENDIX R-4.

## CLASSIFICATION OF UNITS SOLD BY ELECTRIC LICENSEES (COMPANIES) FOR THE YEAR 1961-62.

| Serial number and name of the licensee.                   | (1)         | Industrial. | Agri-cultural. | Domestic. | Commercial. | Public lighting. | Traction. | Bulk supplies. | Miscellaneous. | Total. |
|-----------------------------------------------------------|-------------|-------------|----------------|-----------|-------------|------------------|-----------|----------------|----------------|--------|
|                                                           | (2)         | (3)         | (4)            | (5)       | (6)         | (7)              | (8)       | (9)            | (10)           |        |
| 1 Tirunelveli-Tuticorin Electric Supply Company, Limited. | 17,589,143  | 425,088     | 6,468,497      | 386,613   | 1,058,648   | ..               | 1,393,206 | ..             | 27,321,195     |        |
| 2 Shenottah Electric Supply Agency.                       | 2,311,396   | 795         | 255,165        | ..        | 35,334      | ..               | ..        | ..             | 2,602,599      |        |
| 3 Trichy - Srirangam Electric Licence.                    | 18,838,378  | 7,750,068   | 5,997,117      | 4,882,439 | 3,436,233   | ..               | 804,498   | 2,244,461      | 43,953,685     |        |
| 4 Mayuram-Mannargudi Tiruvarur Electric Licence.          | 7,545,648   | 561,101     | 4,077,897      | 3,542,386 | 1,601,521   | ..               | 1,653,565 | 846,313        | 19,828,431     |        |
| 5 Kumbakonam Electric Supply Corporation Limited.         | 3,698,232   | 189,564     | 4,852,542      | 331,025   | 983,899     | ..               | ..        | 259,618        | 10,314,880     |        |
| 6 Nagapattam Electric Supply Company, Limited.            | 4,997,277   | 17,760      | 880,039        | 338,923   | 344,503     | 110,444          | ..        | 336,867        | 7,025,813      |        |
| 7 Vellore Electric Corporation Limited-Vellore Point.     | 2,741,900-9 | 1,951,660-7 | 3,038,340-1    | 283,853-8 | 643,906     | ..               | 1,699,183 | 35,795-4       | 10,394,644-9   |        |
| 8 Vellore Electric Corporation Limited-Raupet Point.      | 2,095,535-5 | 2,206,663-9 | 1,067,201-6    | 94,543-2  | 314,860     | ..               | 2,526,550 | ..             | 8,305,364-2    |        |
| 9 Salem-Erode Electricity Distribution Company, Limited.  | 26,868,553  | 1,704,734   | 9,469,847      | 578,666   | 1,139,635   | ..               | ..        | ..             | 39,761,435     |        |

## APPENDIX R-5.

## CLASSIFICATION OF UNITS SOLD BY ELECTRIC LICENSEES (LOCAL AUTHORITIES) FOR THE YEAR 1961-62.

| Serial number and name of the licensee. | (1) | Industrial.  | Agri-cultural. | Domestic.    | Commercial.  | Public lighting. | Traction. | Bulk supplies. | Miscellaneous. | Total.         |
|-----------------------------------------|-----|--------------|----------------|--------------|--------------|------------------|-----------|----------------|----------------|----------------|
|                                         | (2) | (3)          | (4)            | (5)          | (6)          | (7)              | (8)       | (9)            | (10)           |                |
| 1 Coimbatore                            | ..  | 33,97,609    | 5,65,814       | 80,41,700    | 26,79,956    | 11,44,227        | ..        | 16,14,287      | 61,117         | 1,75,04,710    |
| 2 Karur                                 | ..  | 12,42,867    | 58,317         | 6,22,253     | 6,17,108     | 2,38,591         | ..        | ..             | 1,19,684       | 28,85,820      |
| 3 Pollachi                              | ..  | 16,12,769    | 1,85,079       | 11,47,956    | 1,94,384     | 2,07,111         | 78,141    | ..             | ..             | 34,26,440      |
| 4 Thanjavur                             | ..  | 21,14,326    | 43,376         | 15,20,543    | 6,71,676     | 4,82,490         | ..        | 3,96,246       | ..             | 5,208,657      |
| 5 Madurai                               | ..  | 51,41,639-20 | 81,469         | 90,47,032-15 | 44,82,835-97 | 27,30,827-60     | ..        | 7,52,469       | 11,01,301-80   | 3,04,09,575.72 |

## APPENDIX R-6.

(COMPANY LICENSEES).

STATEMENT SHOWING TOTAL NUMBER OF UNITS SOLD UNDER VARIOUS CATEGORIES CLASSIFIED AS URBAN, RURAL AND TOTAL WITH CONNECTED LOAD PARTICULARS.

| Serial number and name of licensees.                  | Municipal. |     |            | Textiles. |        | Cement works. |        | Mines. |        |
|-------------------------------------------------------|------------|-----|------------|-----------|--------|---------------|--------|--------|--------|
|                                                       | Urban.     |     | Rural.     | Urban.    | Rural. | Urban.        | Rural. | Urban. | Rural. |
|                                                       | (2)        | (3) | (4)        | (5)       | (6)    | (7)           | (8)    | (9)    | (10)   |
| 1 Tirunelveli-Tuticorin Electric Supply Company, Ltd. | 146,250    | ..  | 5,128,110  | ..        | ..     | ..            | ..     | ..     | ..     |
| 2 Shencottah Electric Supply Agency.                  | 126,363    | ..  | 4,383,331  | ..        | ..     | ..            | ..     | ..     | ..     |
| 3 Trichy-Srirangam ..                                 | 2,567,942  | ..  | ..         | 2,098,480 | ..     | 1,512,446     | ..     | ..     | ..     |
| 4 Mayavaram-Mannargudi-Tiruvannamalai.                | 615        | ..  | ..         | 786       | ..     | 134           | ..     | ..     | ..     |
| 5 Kumbakonam Electric Supply Corporation, Ltd.        | 163        | ..  | ..         | ..        | ..     | ..            | ..     | ..     | ..     |
| 6 Nagapattinam Electric Supply Co., Ltd.              | 11,423     | ..  | ..         | ..        | ..     | ..            | ..     | ..     | ..     |
| 7 Vellore Electric Corporation, Ltd. Vellore Point.   | 17,540     | ..  | ..         | ..        | ..     | ..            | ..     | ..     | ..     |
| 8 Vellore Electric Corporation Ltd., Ranipet Point.   | 290,102    | ..  | ..         | ..        | ..     | ..            | ..     | ..     | ..     |
| 9 Salem-Erode Electricity Distribution Company, Ltd.  | 947,103    | ..  | 10,920,078 | ..        | ..     | ..            | ..     | ..     | ..     |
|                                                       | 291,970    | ..  | 3,541,525  | ..        | ..     | ..            | ..     | ..     | ..     |

**APPENDIX R-6—cont.**  
(COMPANY LICENSEES)—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.                   | Industrial—cont. |                |                |                |                      |                |
|-------------------------------------------------------|------------------|----------------|----------------|----------------|----------------------|----------------|
|                                                       | Tea estates.     |                | Chemicals.     |                | Steel rolling mills. |                |
|                                                       | Urban.<br>(10)   | Rural.<br>(11) | Urban.<br>(12) | Rural.<br>(13) | Urban.<br>(14)       | Rural.<br>(15) |
| 1 Tirunelveli-Tuticorin Electric Supply Company, Ltd. | (a) ..           | ..             | ..             | ..             | ..                   | ..             |
| 2 Sheeootah Electric Supply Agency.                   | (b) ..           | ..             | ..             | ..             | ..                   | ..             |
| 3 Trichy-Srirangam ..                                 | (a) ..           | ..             | ..             | 2,035,112      | ..                   | ..             |
| 4 Mayavaram—Mannargudi—Tiruvannamalai.                | (a) ..           | ..             | ..             | 766            | ..                   | ..             |
| 5 Kumbakonam Electric Supply Corporation, Ltd.        | (b) ..           | ..             | ..             | ..             | ..                   | ..             |
| 6 Nagapattinam Electric Supply Co., Ltd.              | (a) ..           | ..             | ..             | ..             | 38,04,412            | ..             |
| 7 Vellore Electric Corporation Ltd., Vellore Point.   | (a) ..           | ..             | ..             | ..             | 3,268.08             | ..             |
| 8 Vellore Electric Corporation Ltd., Ranipet Point.   | (b) ..           | ..             | 2,526,540      | ..             | ..                   | ..             |
| 9 Salem-Erode Electricity Distribution Company Ltd.   | (a) ..           | ..             | 1,327,088      | ..             | ..                   | ..             |
|                                                       | (b) ..           | ..             | ..             | ..             | ..                   | ..             |
|                                                       |                  |                |                |                | 11,504,433           | 118,350        |

118-350

**Industrial—cont.**

| Serial number and name of the licensee.                  | Government Departments. |                |                                 |                                 | Panchayat Boards. |                |
|----------------------------------------------------------|-------------------------|----------------|---------------------------------|---------------------------------|-------------------|----------------|
|                                                          | Railways.               |                | Urban.                          |                                 | Urban.            | Rural.         |
|                                                          | Urban.<br>(18)          | Rural.<br>(19) | Urban.<br>(20)                  | Rural.<br>(21)                  | Urban.<br>(22)    | Rural.<br>(23) |
| 1 Tirunelveli-Tuticorin Electric Supply Company, Ltd.    | (a) ..                  | ..             | ..                              | ..                              | ..                | ..             |
| 2 Sheeootah Electric Supply Agency.                      | (b) ..                  | ..             | ..                              | ..                              | ..                | ..             |
| 3 Trichy-Srirangam ..                                    | (a) 72,994              | 218,983        | 608,133                         | 101,356                         | ..                | 1,262,584      |
| 4 Mayavaram—Mannargudi—Tiruvannamalai Electric licensee. | (b) 83                  | 247            | 420                             | 71                              | ..                | 94             |
| 5 Kumbakonam Electric Supply Corporation Limited.        | (a) 198,897             | 213,368        | 49,574                          | 98,325                          | ..                | 1,263,390      |
| 6 Nagapattinam Electric Supply Co., Ltd.                 | (b) 52                  | 89             | 55                              | 152                             | ..                | 462            |
| 7 Vellore Electric Corporation Ltd., Vellore Point.      | (a) 78,583              | 73,865         | Total of columns (21) and (27). | Total of columns (22) and (28). | ..                | 628,300        |
| 8 Vellore Electric Corporation Ltd., Ranipet Point.      | (b) ..                  | ..             | 2,517,374                       | 2,513,745                       | ..                | ..             |
| 9 Salem-Erode Electricity Distribution Co., Ltd.         | (a) 91,743              | 18,701         | 67,788                          | 2,541                           | ..                | 2,937          |
|                                                          | (b) 29,700              | 9,010          | 72,320                          | 5,600                           | ..                | 9,500          |
|                                                          | (a) 16,326-0            | 163,055-0      | 285,116-0                       | 88,372-0                        | ..                | 208,723-6      |
|                                                          | (b) 7,000               | 63,830         | 198,185                         | 8,600                           | ..                | 71,915         |
|                                                          | (a) 13,529              | ..             | 55,009                          | ..                              | ..                | 24,758         |
|                                                          | (b) 7,080               | ..             | 27,938                          | ..                              | ..                | 22,970         |
|                                                          | (a) 279,457             | ..             | ..                              | ..                              | 183,517           | 9,015          |
|                                                          | (b) 86,575              | ..             | ..                              | ..                              | 55,270            | 4,620          |

## APPENDIX R-6—cont.

(COMPANY LICENSEES)—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 the licensee.                 | Industrial—cont. |                |                              |                   |                |                |                |                |  |  |
|---------------------------------------------------------|------------------|----------------|------------------------------|-------------------|----------------|----------------|----------------|----------------|--|--|
|                                                         | Agricultural.    |                | Domestic Lighting and Power. |                   | Miscellaneous. |                | Total.         |                |  |  |
|                                                         | Urban<br>(24)    | Rural.<br>(25) | Urban.<br>(26)               | Rural.<br>(27)    | Urban.<br>(28) | Rural.<br>(29) | Urban.<br>(30) | Rural.<br>(31) |  |  |
| 1 Tinnevely-Tuticorin Electric Supply Company Limited.  | (a) 366-000      | 488,100        | 19,383,335                   | 960-000           | ..             | ..             | 21,868,184     | 1,498,310      |  |  |
| (b)                                                     | 305,437          | 427,535        | 10,099,991                   | 755,550           | ..             | ..             | ..             | ..             |  |  |
| 2 Shencottah Electric Supply Agency.                    | (a) ..           | ..             | ..                           | ..                | ..             | ..             | ..             | ..             |  |  |
| (b)                                                     | ..               | ..             | ..                           | ..                | ..             | ..             | ..             | ..             |  |  |
| 3 Trichy-Srirangam ..                                   | (a) ..           | 7,750,068      | 8132,831                     | 2,033,208         | 1,992,300      | 1,478,779      | 21,433,179     | 22,520,506     |  |  |
| (b)                                                     | ..               | 9,232          | 12,182                       | 3,046             | 661            | 371            | 20,703         | 18,113         |  |  |
| 4 Mayavaram—Mannargudi—Tiruvannamalai Electric Licence. | (a) 128,222      | 432,879        | 2,845,361                    | 3,569,412         | 257,441        | 588,862        | 6,606,125      | 13,222,306 *   |  |  |
| (b)                                                     | 423              | 861            | 4,390                        | 8,200             | 121            | 862            | 8,596          | 18,547 †       |  |  |
| 5 Kumbakonam Electric Supply Corporation Limited.       | (a) 60,048       | 129,516        | Vide column (21).            | Vide column (22). | 259,618        | ..             | 4,766,929      | 5,547,951      |  |  |
| (b)                                                     | ..               | ..             | ..                           | ..                | ..             | ..             | ..             | ..             |  |  |
| 6 Nagapattinam Electric Supply Company Limited.         | (a) 4,007-0      | 13,753         | 855,604                      | 375,077           | 246,793        | 349,888        | 5,644,362 ‡    | 1,381,451 §    |  |  |
| (b)                                                     | 28,000           | 79,125         | 1,816,810                    | 721,865           | 108,065        | 70,940         | 6,000,887 ¶    | 1,869,870 ¶    |  |  |
| 7 Vellore Electric Corporation, Limited, Vellore Point. | (a) 162,638-4    | 1,789,022-3    | 2,116,192-3                  | 529,048-1         | 2,036,457-7    | 262,057-2      | 6,449,385-1    | 3,945,259-8    |  |  |
| (b)                                                     | 443-418          | 2,098-675      | 2,815-913                    | 938-638           | 796-801        | 99,600         | 6,025-975      | 4,466,228      |  |  |

8 Vellore Electric Corporation Limited Ranipet Point.

7,928,068-2

377,266-0

(b) 2,185-863

6,780-108

382-056

9 Salem-Erode Electricity Distribution Company, Limited.

39,052-454

708,981

(a) 1,096,330

30,401-114

1,513-955

(b) 2,413-975

61-775

\* Includes 298,457 units under commercial Light and Fan.

† Includes 356-965 under commercial Light and Fan.

‡ Includes the figures 1,653,565 being units sold under Bulk Supplies.

\*\* Includes the figure 1,900 representing connected load under Bulk Supplies.

†† Includes 40,466 units under commercial Light and Fan.

‡‡ Includes 79-40 units under Commercial Light and Fan.

APPENDIX R-6.—cont.  
(COMPANY LICENSES)—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 the licensee. | Industrial.               |               |               |               |               |               |
|-----------------------------------------|---------------------------|---------------|---------------|---------------|---------------|---------------|
|                                         | Municipal.                |               | Textiles.     |               | Cement works. |               |
|                                         | Urban.<br>(2)             | Rural.<br>(3) | Urban.<br>(4) | Rural.<br>(5) | Urban.<br>(6) | Rural.<br>(7) |
| 1 Coimbatore .. ..                      | (a) 1,412,584<br>(b) ..   | ..            | 183,464       | ..            | ..            | ..            |
| 2 Karur .. ..                           | (a) 397,134<br>(b) 98,240 | ..            | ..            | ..            | ..            | ..            |
| 3 Pollachi .. ..                        | (a) 170,690<br>(b) 55,205 | ..            | ..            | ..            | ..            | ..            |
| 4 Thanjavur .. ..                       | (a) ..<br>(b) ..          | ..            | ..            | ..            | ..            | ..            |
| 5 Madurai .. ..                         | (a) ..<br>(b) ..          | ..            | ..            | ..            | ..            | ..            |

APPENDICES

| Serial number and name of the licensee. | Industrial—cont. |                |                |                |                     |                |
|-----------------------------------------|------------------|----------------|----------------|----------------|---------------------|----------------|
|                                         | Tea Estates.     |                | Chemical.      |                | Steel Rolling Mill. |                |
|                                         | Urban.<br>(10)   | Rural.<br>(11) | Urban.<br>(12) | Rural.<br>(13) | Urban.<br>(14)      | Rural.<br>(15) |
| 1 Coimbatore .. ..                      | (a) ..<br>(b) .. | ..             | ..             | ..             | ..                  | ..             |
| 2 Karur .. ..                           | (a) ..<br>(b) .. | ..             | ..             | ..             | ..                  | ..             |
| 3 Pollachi .. ..                        | (a) ..<br>(b) .. | ..             | ..             | ..             | ..                  | ..             |
| 4 Thanjavur .. ..                       | (a) ..<br>(b) .. | ..             | ..             | ..             | ..                  | ..             |
| 5 Madurai .. ..                         | (a) ..<br>(b) .. | ..             | ..             | ..             | ..                  | ..             |
|                                         |                  |                |                |                | 4,139,799           | 15,112         |
|                                         |                  |                |                |                | ..                  | ..             |
|                                         |                  |                |                |                | 2,242,867           | ..             |
|                                         |                  |                |                |                | 573,750             | ..             |
|                                         |                  |                |                |                | 1,612,769           | ..             |
|                                         |                  |                |                |                | 1,532,840           | ..             |
|                                         |                  |                |                |                | ..                  | ..             |
|                                         |                  |                |                |                | ..                  | ..             |
|                                         |                  |                |                |                | ..                  | ..             |
|                                         |                  |                |                |                | ..                  | ..             |

Notes.—(a) Represents the number of units sold.  
(b) Represents total connected load.

APPENDICES

(Local Authorities.)—*cont.*

STATEMENT SHOWING TOTAL NUMBER OF UNITS SOLD UNDER VARIOUS CATEGORIES CLASSIFIED AS URBAN, RURAL AND TOTAL WITH CONNECTED LOAD PARTICULARS—*cont.*

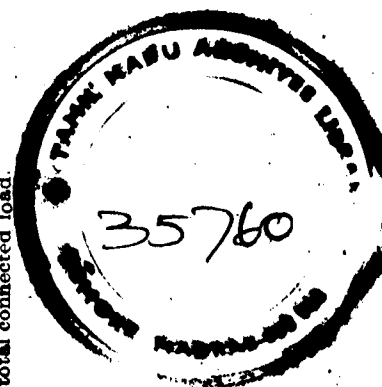
| Serial number and name of<br>the licensee. | Industrial—cont. |                |                            |                |                   |                |                |                |
|--------------------------------------------|------------------|----------------|----------------------------|----------------|-------------------|----------------|----------------|----------------|
|                                            | Railway.         |                | Government<br>departments. |                | Panchayat boards. |                | Agricultural.  |                |
|                                            | Urban.<br>(18)   | Rural.<br>(19) | Urban.<br>(20)             | Rural.<br>(21) | Urban.<br>(22)    | Rural.<br>(23) | Urban.<br>(24) | Rural.<br>(25) |
| 1 Coimbatore .. ..                         | (a)              | 238,026        | 473,313                    | ..             | ..                | ..             | 537,197        | 28,617         |
| .. ..                                      | (b)              | ..             | ..                         | ..             | ..                | ..             | ..             | ..             |
| 2 Karur .. ..                              | (a)              | 43,286         | 33,076                     | ..             | ..                | ..             | 58,317         | ..             |
| .. ..                                      | (b)              | 25,000         | 18,850                     | ..             | ..                | ..             | 128,880        | ..             |
| 3 Pollachi .. ..                           | (a)              | 78,141         | 36,421                     | ..             | ..                | ..             | 185,079        | ..             |
| .. ..                                      | (b)              | 25,498         | 25,750                     | ..             | ..                | ..             | 166,410        | ..             |
| 4 Thanjavur .. ..                          | (a)              | ..             | ..                         | ..             | ..                | ..             | ..             | ..             |
| .. ..                                      | (b)              | ..             | ..                         | ..             | ..                | ..             | ..             | ..             |
| 5 Madurai .. ..                            | (a)              | ..             | ..                         | ..             | ..                | ..             | ..             | ..             |
| .. ..                                      | (b)              | ..             | ..                         | ..             | ..                | ..             | ..             | ..             |

## APPENDICES

| Serial number and name of<br>the licensee. | Industrial—cont.                |                |                |                |                |                |
|--------------------------------------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|
|                                            | Domestic lighting<br>and power. |                | Miscellaneous. |                | Total.         |                |
|                                            | Urban.<br>(26)                  | Rural.<br>(27) | Urban.<br>(28) | Rural.<br>(29) | Urban.<br>(30) | Rural.<br>(31) |
| 1 Coimbatore .. ..                         | (a) 8,082,548                   | ..             | 2,404,050      | ..             | 17,277,517     | 227,193        |
|                                            | (b) ..                          | ..             | ..             | ..             | ..             | ..             |
| 2 Karur .. ..                              | (a) 498,032                     | ..             | 617,108        | ..             | 2,888,820      | ..             |
|                                            | (b) 1,396-204                   | ..             | 862-025        | ..             | 3,102-929      | ..             |
| 3 Pollachi .. ..                           | (a) 1,342,340                   | ..             | ..             | ..             | 3,425,440      | ..             |
|                                            | (b) 1,453-015                   | ..             | ..             | ..             | 3,258-718      | ..             |
| 4 Thanjavur .. ..                          | (a) ..                          | ..             | ..             | ..             | ..             | ..             |
|                                            | (b) ..                          | ..             | ..             | ..             | ..             | ..             |
| 5 Madurai .. ..                            | (a) ..                          | ..             | ..             | ..             | ..             | ..             |
|                                            | (b) ..                          | ..             | ..             | ..             | ..             | ..             |

**NOTES.**—(a) Represents number of units sold.  
(b) Represents total connected load.

**(b) Represents total connected load.**



R. . .  
Cb. 2111 Y N61  
N64