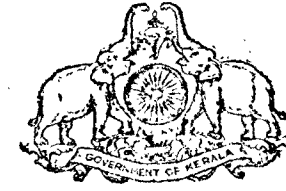


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ADMINISTRATION REPORT
OF THE
PUBLIC WORKS DEPARTMENT

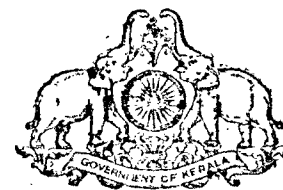
FOR THE YEAR 1955-56

PRINTED BY
S. G. P. AT THE GOVERNMENT PRESS,
ERNAKULAM

1957

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ADMINISTRATION REPORT
OF THE
PUBLIC WORKS DEPARTMENT

FOR THE YEAR 1955—56

PRINTED BY
THE S. C. P. AT THE GOVERNMENT PRESS,
ERNAKULAM
1957



GOVERNMENT OF TRAVANCORE-COCHIN

PUBLIC WORKS DEPARTMENT

PROCEEDINGS

Sub:—Administration Report of the P.W.D. for the year 1955-56—
Review of.

Read:—Administration Report of the P.W.D. for the year 1955-56
forwarded by the Chief Engineer, P.W.D.

Order PW(A) 7-10534/56/PWC., dated Trivandrum, 27th October 1956

1. Recorded.

2. Sri K. K. Kartha continued to be the Chief Engineer, P.W.D.,
throughout the year under review.

3. The total grant and expenditure under all heads of account operated
by the Department during the year under review were Rs. 6,60,83,300 and
Rs. 5,22,70,485 against Rs. 5,54,48,800 and Rs. 4,05,88,349 during the
previous year.

4. The total expenditure on original works—buildings was Rs. 61,08,248,
on communications Rs. 1,62,82,274, on 'Repairs' Rs. 75,55,093, on non-
Development schemes Rs. 2,23,05,302 and on Development schemes
Rs. 1,17,90,482. The total establishment charges amounted to Rs. 47,86,769
which, in relation to the expenditure of Rs. 4,74,83,716 on works proper,
under all heads work out to 10 per cent approximately.

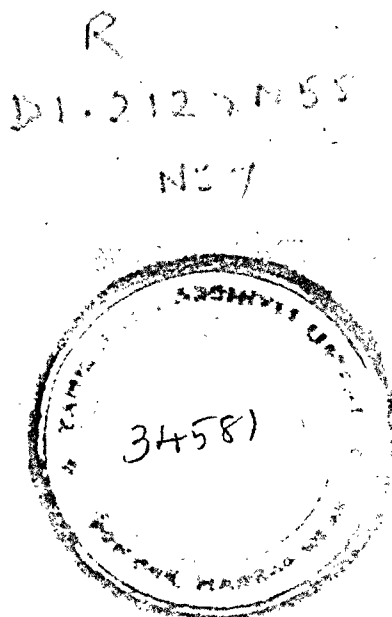
The expenditure on 81 capital account outside Revenue account amount-
ed to Rs. 46,36,770. The expenditure under XVII Irrigation, Navigation,
Embankment and Drainage works was Rs. 5,84,794 and under '18 other
Revenue expenditure financed from ordinary source' is Rs. 80,25,982.

5. The major Irrigation schemes such as Neyyar Dam works, Kuttanad
Development scheme, Chalakkudy, Wadakkancherry and Peechi schemes were
in progress. The Ittipuzha bridge on the Ettumannoor-Ernakulam road was
opened for traffic. The Kalamassery bridge over the Edamala branch of the
Periyar river was also opened during the year.

6. The most important event during the year was the laying of the
foundation stone of the following schemes of Public Utility by Dr. Rajendra
Prasad, President of India in February 1956.

1. Tuberculosis Hospital, Pulayanarkotta.
2. The Quilon Water Works.
3. The Kottayam Water Supply.
4. Mangalapuzha bridge at Always on the right arm of Periyar river.
5. Ernakulam Drainage Scheme.

7. The starting of an Agricultural College at Vellayani, (Trivandrum)
and of a Veterinary College at Ollukkara, (Trichur) early during the year under
PW—1



report and the formation of 2 special Sub-Divisions in January 1956 to be in sole charge of the construction works for these institutions deserve special mention.

8. The scheme of Village Road Development under the first five year plan was continued during the year. A busy programme of dustless surfacing of important roads was also undertaken. A separate Execution Division under the Director of Public Instruction was formed for the works in connection with the Building Construction of the Education Department.

9. The Water Works and Drainage and the various mofussil water supply schemes were functioning satisfactorily.

10. The work of the Department on the whole was satisfactory.

(By Order of H. H. the Rajpramukh)
K. KESAVAN,
Deputy Secretary.

To
The Chief Engineer, P.W.D.
The Comptroller.
The Finance Department.
The Director of Public Relations (6 copies).
The Superintendent, Government Presses.

Administration Report 1955-56—Public Works Department

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ADMINISTRATION REPORT FOR 1955-56

CHAPTER I

ADMINISTRATION AND STAFF

Sri K. K. Kartha, Chief Engineer, was in charge of the Department throughout the year. Sri K. M. Mathew, who assumed charge as Deputy Chief Engineer on 2nd June 1954 was continuing as such till 7th September 1955 F.N. when he retired from service. Sri T. Nataraja Pillai was appointed as Deputy Chief Engineer in his place and he assumed charge on 16th September 1955 and continued as such during the rest of the year. Sri V. V. Gopalakrishna-Iyer continued as Deputy Chief Engineer for Planning throughout the year. Sri R. Seshadrinatha Iyer continued to hold charge as Technical Assistant to the Chief Engineer throughout the year. Sri K. W. Padmanabha Marar continued to hold charge as Administrative Assistant throughout the year. The Chief Engineer was on tour for 164 days during the year including the time spent on tour outside the State for attending to the Engineers' Seminar at Kashmir and Annual meeting of the Central Board of Irrigation and Power at New Delhi.

The investigation of works to be taken up under the 2nd Five Year Plan which was started in December 1954 under a separate Planning Circle was continued throughout the year.

As usual facilities were given in the Government Engineering Workshops for imparting practical training to the Trainees from the Industrial Training Centre at Trivandrum. Facilities were also given in the Department for imparting practical training to the students of the Engineering College, Trivandrum and also from other Universities in India.

As in previous years the Northern and Southern Circles continued to function under 2 permanent Superintending Engineers. Sri K. B. Menon was in charge of the Northern Circle throughout the year. Sri P. Thanu Pillai who assumed charge as Superintending Engineer, Southern Circle, on 2nd June 1954, continued as such until 24th August 1955 when he retired. Sri A. R. Krishna Iyer was in charge of this Circle from 6th September 1955 to 3rd January 1956 when he retired from service. Sri K. E. Eapen then assumed charge as Superintending Engineer, Southern, Circle on 4th January 1956 and continued as such during the year.

With a view to devote more attention to the execution of Water Supply Schemes in general a Water Works Circle was formed in the Department and Sri A. K. Chacko was appointed as Superintending Engineer, Water works and Drainage Schemes from 30th May 1955. He continued as such throughout the year. The post of the Project Engineer Trichur was upgraded as that of Superintending Engineer for Irrigation Projects with effect from 17th September 1955 and Sri T. S. Chathunny who was appointed as such continued throughout the year.

The Executive Engineer, Stores, New Workshops and Pier Division, Superintendent Government Engineering Workshops, Trivandrum, the Construction Engineer, Neyyar Irrigation Project, the Executive Engineer,

Kuttanad Development, Scheme Alleppey, the Executive Engineer Pampa Hydro Electric and Irrigation Division, Chengannur, the Sub Division Officer, Medical College Special Sub-Division, Trivandrum and the Canal Sub-Division Office, Alleppey continued to work under the direct orders of the Chief Engineer throughout the year. The Agricultural College Special Sub-Division, Trivandrum and the Veterinary College Special Sub-Division, Ollukkara formed in January 1956 also worked under the direct orders of the Chief Engineer.

The Department worked satisfactorily throughout the year with the reorganised strength of staff in all branches, Technical, Ministerial, Miscellaneous and Menial as sanctioned by Government from time to time after the integration of the two States augmented by temporary additions to the Permanent Staff as and when occasions demanded. The temporary staff as detailed in the accompanying statement were working throughout the year.

The following officers of the P. W. D. were working in other departments during the year.

1. Sri George Oommen on other duty in the Central Water and Power Commission, New Delhi.

Electrical Department

- | | |
|------------------------------|----------------------------|
| 1. Sri C. S. Padmanabha Iyer | 7. Sri D. Panchanatha Iyer |
| 2. " V. Renganathan | 8. " H. Neelakanta Iyer |
| 3. " O. J. Cheriyan | 9. " C. Ramaswamy Iyer |
| 4. " R. P. Nair | 10. " P. Mahadevan |
| 5. " H. Vaidianathan | 11. " A. T. Jacob |
| 6. " E. U. Philipose | 12. " Itty Darwin |

Community Project and N. E. S. Blocks

- | | |
|------------------------------|------------------------------------|
| 1. Sri V. P. Narayanan Nair | 14. Sri P. K. Ramakrishna Panikkar |
| 2. " K. Ramachandra Warriar | 15. " G. Atchutha Panikkar |
| 3. " P. A. Sreedharan Pillai | 16. " S. Govindan Potti |
| 4. " M. C. George | 17. " N. Krishna Pillai |
| 5. " T. R. Ramachandran | 18. " R. Ayyamperumal Pillai |
| 6. " P. Velappan Nair | 19. " K. S. Achutha Panicker |
| 7. " S. P. James | 20. " K. Y. Samuel |
| 8. " M. Parameswaran Nair | 21. " P. John Mathew |
| 9. " K. Viswanathan Nair | 22. " K. A. Alexander |
| 10. " Thampi Thomas | 23. " R. Sundaram Iyer |
| 11. " N. H. Rajakumar | 24. " P. Joseph Rodrigz |
| 12. " P. N. S. Money | 25. " P. K. Karunakara Menon |
| 13. " O. C. Oomen | |

Colonisation Settlement and Housing

- | | |
|------------------------------|-------------------------|
| 1. Sri K. Janardhanan Pillai | 5. Sri K. Raghava Menon |
| 2. " Philip C. George | 6. " P. Sankunni |
| 3. " N. Raghavan Nair | 7. " K. Damodaran |
| 4. " Zachariah George | |

Panchayat Department

- | | |
|----------------------------|------------------------------|
| 1. Sri P. S. Rajagopalan | 18. Sri V. K. Raman Pillai |
| 2. " P. K. Thressia | 19. " N. Rama Iyer |
| 3. " V. V. Sundararajan | 20. " P. Sukumaran Nair |
| 4. " P. N. Jacob | 21. " K. Gopinathan Nair |
| 5. " P. K. Kuruvilla | 22. " V. G. Chacko |
| 6. " A. R. Raghavan Nair | 23. " N. Gopalan Nair |
| 7. " C. M. Mathew | 24. " N. Bhaskara Kurup |
| 8. " N. Krishna Moorthi | 25. " S. K. Sundaram |
| 9. " K. C. Chanda Pillai | 26. " P. K. Sukumaran Nair |
| 10. " V. K. Narayana Menon | 27. " S. Ramakrishna Iyer |
| 11. " S. Krishnakutty Nair | 28. " C. V. Vijayan |
| 12. " P. Krishna Iyer | 29. " C. M. Mammen |
| 13. " T. K. Chandy | 30. " Alexander Mathew |
| 14. " P. Raghavan Achary | 31. " A. Kumaraswami Pillai |
| 15. " K. Sivasankaran Nair | 32. " N. Ravindranathan Nair |
| 16. " L. Narayana Sarma | 33. " S. Abdul Rahim |
| 17. " P. Mallicka Pillai | |

State Transport Department

- | | |
|-------------------------|-------------------------|
| Sri P. K. Vikraman Nair | Sri K. Somasekaran Nair |
| " N. Sreedharan Nair | " K. Kunjukrishna Nadar |
| " M. Sreenivasan | |

Public Health Department

- | | |
|------------------------|-----------------------|
| Sri D. Appukuttan Nair | Sri V. Abraham |
| " K. George Zachariah | " Abraham Joseph |
| " K. Kesava Kammath | " K. Jacob Ninan |
| " V. Arulanandam | " S. Somasekaran Nair |
| " K. Ramachandran | |

Municipal Councils and Corporation

- | | |
|------------------|----------------------------|
| Sri K. C. George | Sri K. R. Rajasekaran Nair |
|------------------|----------------------------|

College of Engineering, Trivandrum

- | | |
|------------------------|------------------------|
| Sri Philipose Koshy | Sri N. S. Money |
| " N. K. Sadasivan Nair | " T. S. Money |
| " S. Ramakrishna Iyer | " M. Ramaswamy |
| " C. K. George | " T. S. Ramalinga Iyer |

Maharaja's Technical Institute, Trichur

- Sri K. M. Alikunchu

Agriculture Department

- | | |
|--------------------|------------------------------|
| Sri S. Rajagopalan | Sri V. Purushothama Panicker |
|--------------------|------------------------------|

Forest Department

- | | |
|------------------------|-------------------------|
| Sri V. J. Philipose | Sri V. Sambu Potti |
| " V. Surendran Pillai | " N. Ramakrishna Pillai |
| " K. Unnikrishnan Nair | |

Education Department

Sri A. Sivarama Pillai	Sri A. G. Varghese
„ P. N. Kuruvilla	„ R. Thanumalaya Perumal Pillai
„ V. Appukkuttan Nair	„ M. J. John
„ T. K. Thomas	„ P. Raghavan Nair
„ Gheevarghese Thomas	

Maramath Department

Sri S. S. Sastri	Sri P. Prabhakara Nair
„ K. G. Sudevan	„ G. Nilakantan
„ M. P. Narayana Pillai	„ N. Ravindranathan Nair

Casualties

Superintending Engineer Sri P. Thanu Pillai retired from service on 24th August 1955 F.N. Deputy Chief Engineer Sri K. M. Mathew retired from service on 7th September 1955 F.N. Superintending Engineer Sri A. R. Krishna Iyer retired from service on 4th January 1956 F.N. Assistant Engineer Sri A. R. Sarma retired from service on 4th May 1955. Sri R. Padmanabha Rao, Ag. Junior Superintendent Chief Engineer's Office died on 25th July 1955. Sri Joseph Jacob, Ag. Manager, Quilon Division Office retired from service on 26th January 1956. Sri K. Kesava Pillai, Clerk died on 25th May 1955. Three Supervisors, six Clerks, one Peon and two Gardeners retired from service during the year. M. Govinda Menon, Jetty Superintendent died on 23rd October 1955.

CHAPTER II**RECEIPTS AND EXPENDITURE**

Statement No. I shows the details of Revenue realised during the year. The total receipts under the several major heads amounted to Rs. 46,57,881 as detailed below :—

	Rs.
1. XVII. Irrigation, Navigation, Embankment and Drainage works for which capital accounts are kept ..	2,06,898
2. XVIII. Irrigation, Navigation Embankment and Drainage works for which no Capital accounts are kept ..	6,26,537
3. XXXIX. Civil Works ..	38,24,446
Total ..	46,57,881

Besides the above, the Revenue Receipts of the projects amounted to Rs. 1,84,733 according to the following details :—

	Rs.
1. Peechi Irrigation Scheme ..	1,26,919
2. Chalakudy Irrigation Scheme ..	46,322
3. Neyyar Irrigation Scheme ..	11,492
Total ..	1,84,733

Statement No. II shows details of expenditure by major and minor heads under the various heads of account. Statement No. III gives details of outlay under Establishment. The total expenditure under the several major heads amounted to Rs. 5,22,70,485 as detailed below :—

	Rs.
1. XVII. Irrigation, Navigation Embankment, Drainage works for which capital accounts are kept ..	5,84,794
2. 18. Other Revenue expenditure financed from ordinary Revenues ..	80,25,982
3. 50. Civil Works ..	3,51,99,285
4. 68. Construction of Irrigation, Navigation Embankment and Drainage works ..	38,23,654
5. 81. Capital account of Civil Works outside the Revenue accounts ..	46,36,770
Total ..	5,22,70,485

The total expenditure on Establishment amounted to Rs. 47,86,769 as per the following details :—

	Rs.
1. XVII. Irrigation, Navigation Embankment and Drainage works for which capital accounts are kept ..	24,926
2. 18. Other Revenue expenditure financed from ordinary Revenues ..	7,46,679
3. 50. Civil Works ..	33,29,272
4. 68. Construction of Irrigation, Navigation, Embankment and Drainage works ..	4,62,067
5. 81. Capital account of Civil Works outside the Revenue account ..	2,23,825
Total ..	47,86,769

Statement No. IV shows details of original grant, variations and final grant, under various major heads and sub-heads and Statement No. V gives a comparison of the original grant and final grant with the final expenditure.

CHAPTER III**PROGRESS OF IMPORTANT WORKS**

Irrigation Works, Kuttanad Development Scheme.—A brief narrative account of the progress of the main works under the Kuttanad Development Scheme is given below :—

A. Constructing a combined road-cum-canal between Alleppey and Changanacherry.—The expenditure on the work during the year was Rs. 10,59,547. The outlay up to end of the year amounted to Rs. 35,79,498 against the sanctioned original estimate of Rs. 57,23,000 and the revised estimate of Rs. 38,57,995.

The road commences from 84th mile M.C. road and ends at 52nd mile Quilon-Alleppey road with a total length of 14½ miles. A canal 110 feet wide at bed level + 90'50 south and along side of the above road is cut for a distance of 7 miles from Changanacherry end (Manackalchira) to Monkomp. Colonisation bunds 50' wide at bed level + 105'50 north and along side of the road and a similar embankment 30' wide on the southern bank of the canal are also constructed for the above length of 7 miles. The Colony portion is to be handed over to the Revenue Department. In the remaining length of the road up to Alleppey there is only the road 40' wide. A boat basin at Manackalchira where the canal begins at Changanacherry end is also constructed. Out of the 14½ miles length of the road 9½ miles from Changanacherry and 1½ miles from Alleppey end have been completed excepting the construction of bridges in between which are also nearing completion. The rest of the road portion and the bridges taken up are also in good progress and are nearing completion.

B. Constructing a spillway at Thottapally.—The total outlay on the work up to the end of the financial year was Rs. 48,93,244 including an expenditure of Rs. 1,48,669 incurred during the year against the revised estimate of Rs. 59,60,988. The work of the spillway was practically completed excepting some additional works like cutting open a leading channel from Thandaprayar to the spillway at Thottapally costing Rs. 6'64 lakhs and certain balance works of the original estimate. The spillway was put into operation during the floods of June-July 1955.

Land Acquisition

The amount spent on land acquisition during the year was Rs. 1,127 for lands acquired for the spillway at Thottapally and Rs. 81,534 for the lands acquired for the Alleppey—Changanacherry road. The total expenditure incurred on land compensation upto the end of the year amounted to Rs. 7,74,454 for the spillway, and Rs. 7,00,992 for the Alleppey—Changanacherry road.

Maintenance of Departmental Dredgers

The upkeep and maintenance of the eight dredgers were attended to under the control of the Dredger Sub-Division Officer. A sum of Rs. 2,89,612 was spent on maintenance against a total revenue of Rs. 1,92,847. An estimate was also sanctioned during the year for Rs. 4'65 lakhs for maintenance of dredgers and two lorries.

Progress Photographs

In order to have a pictorial record of the progress of project works, the photographs of the works were taken at suitable intervals during the different stages of construction. These photographs are preserved in an album as a valuable record for future reference. Important photographs were also sent for the various exhibitions in and outside the State.

The models of the scheme were exhibited in the National Agricultural and Industrial Exhibition at Kottayam in April 1955, All Indian Industrial and Agricultural Exhibition at Shertalai in May 1955 and All India Industrial, Agricultural and Arts Exhibition at Oachira in November 1955 and All India Industrial, Agricultural, Education and Arts Exhibition at Changanacherry in January 1956 and gold and silver medals were obtained. Important items

of exhibits displayed by this Division were the open air models of the spillway at Thottapally, Salt water barrier at Thannirmukkom and the Kuttanad area with the road-cum-canal showing the rivers and canals accompanied by necessary charts and photographs illustrating the details of the scheme and explaining the benefits to be derived therefrom.

Neyyar Scheme

A total expenditure of Rs. 35,62,189 was spent on the scheme during the year.

Earthwork and blasting and removing surface rock for the foundation of Dam were completed by the end of the preceding financial year.

The rubble masonry for Dam on the right bank from chainage 0 to 352 and the last portion from chainage 820 to 997 have reached the proposed top level of (+) 280. Masonry on the two sluice portions is in good progress and during the year under report 21'5 lakhs c. ft. of masonry was built.

In the right bank channel earthwork and rock blasting including cross drainage works in 1 to 16 miles were almost completed except the cut and cover at the 8th and 9th miles. The works in miles 17 to 22 of main channel, 6 miles of Poovar branch and 4 miles of Vizhinjom branch are also in good progress. On the whole, about 128 lakhs c.ft. of earthwork and 5'5 lakhs c.ft. of rock blasting and 34 numbers of cross drainage works were done during the year.

Irrigation Projects, Trichur

The following were the three schemes in progress under this project during the year.—

- (a) Peechi Scheme.
- (b) Chalakudy Scheme.
- (c) Vazhani Scheme. (Wadakkancherry River Valley Scheme).

The progress of works in the above three schemes is detailed below.

Peechi Scheme

The construction of the earthen dyke at Vallikayam has been completed in all respects. The length of the dyke is 398 feet at the top and its width at the base at the deepest portion is 138 feet. In the construction of the masonry of the Dam all works except the erection of spillway gates and the building up of piers for the bridge for the operating platform have been completed. Out of the total estimate quantity of 20,380 units of masonry 20,350 units have been completed so far. The spillway gates were supplied by a German Firm and the erection of the shutters is in progress. The 4' diameter pipe line leading to the right bank canal has also been laid during the last season. The opening of a new road to divert National Highway No. 47 in its 14th mile at Vaniampara has been completed. The construction of a major bridge at this portion is in progress.

The canal work has progressed with all possible speed. The construction of main canals in both the right and the left bank canals have almost been completed. About 80 per cent of the branch canals have also been completed, the total length of canals completed being 98 miles 6 furlongs. The estimated cost of this scheme in Rs. 235 lakhs. The total expenditure up to end of the year is Rs. 190'72 lakhs.

Chalakudy Scheme

The construction of the masonry weir which is 606 feet and 9½ feet average height with crest width of 12½' with necessary draining walls and head sluices have already been completed. In the construction of canals the excavation of main canals in both the right bank and the left bank for a length of 34½ miles is also completed in all respects including C. D. works and spouts. Further about 33 branch canals were completed during the year on the right and left banks. Nearly 85 per cent of the total work to be done for opening branch canals under this scheme has been fully completed. The total length of canals completed up to the end of 1955-56 was 93 miles.

The total expenditure up to end of year on this scheme is Rs. 111.32 lakhs against the estimate amount of Rs. 153.25 lakhs.

Vazhani Scheme

The work of the Dam was in progress during the year. Out of the total quantity of 13,500 units of earthwork about 10,500 units were completed by the end of the year. Out of the total quantity of 5,800 units of revetment 1,700 units were also completed. The construction of sluice in the right and left banks was completed. The foot-bridge to the left bank sluices was in progress. The spillway channel work including rock blasting in the stilling basin and leading channel was almost completed.

Out of 24 miles of main canal to be constructed, 17 miles were completed and works in the remaining portion were in progress at the close of the year. Some of the branch canals were also completed.

The total expenditure on the scheme up to the end of the financial year under report is Rs. 59.03 lakhs against the estimate amount of Rs. 107.57 lakhs.

Productive Irrigation

In the Kothayar Project no expenditure under capital account was incurred during the year. The gross and net outlay on the project stood as before.

Gross	Net
Rs. 88,20,773	81,38,779

The year under report opened with a reading of 34.45 in the Pechipara Reservoir. The Kumbhom crop season closed on 3rd March 1955 when the Reservoir stood at 34.35. The highest level recorded during the year was 43.40 on 27th June 1955. The reservoir was opened for Kanni crops on 25th May 1955, the reservoir reading then being 42.80. During the year under report the water from Perinchani Reservoir was also utilised for supplementing the water from Pechipara.

The distribution of water was made with due care to avoid wastage and to the best advantage of the ryots.

Statements Nos. VIII to XIII give information relating to Kothayar Project on (1) progress of opening of blocks under Kothayar project. (2) Length and cost of irrigation channels maintained during the year. (3) Commanded area and assessed area. (4) Taluk-war statement showing wet lands under the project. (5) Statistics of dry area under blocks for which project water has been used compared with gross dry area under blocks and (6) disposal of tank beds.

The following major works of importance were taken up towards improvements of channels:—

1. Improvements to Thovala channel, miles 7 to 10.
2. Improvements to T Code channel, miles 5 and 6.
3. Cement plastering to the embankments of the L.B.C.
4. Improvements to P.P. channel, miles 0 to end.
5. Improvements to Aruvikara L.B.C. and R.B.C.

Due to the heavy rains in November and December 1955 several breaches occurred and these were promptly closed at a cost of about Rs. 50,000.

Second Five Year Plan Schemes—Investigation of

Two Divisions were formed in December 1954 with Head-quarters at Alwaye and Trivandrum under the direct administrative control of the Deputy Chief Engineer, Planning, for the detailed investigation of the schemes to be included in the Second Five Year Plan. These Divisions continued throughout the year. Five Sub-Divisions were functioning under the Planning Executive Engineer, North and four under the Planning Executive Engineer South. In addition to the above two Planning Sub-Divisions with necessary staff were functioning under the Executive Engineer, Kuttanad Development Scheme with Headquarters at Alleppey and Ernakulam.

The investigations were conducted with a view to determine the engineering and economic feasibility of the schemes and to recommend suitable schemes for inclusion in the Second Five Year Plan. Early in the year project estimates and reports of the following major irrigation schemes and urban water supply and drainage schemes were prepared and forwarded to the Central Planning Commission.

Major Irrigation

1. Bhuthathankettu Scheme.
2. Pothundy Scheme.
3. Adirappally Scheme.
4. Chalakudy II Stage.
5. Onattukara Scheme.
6. Cheerakuzhi Scheme.
7. Pamba Irrigation Scheme.
8. Neyyar II Stage.
9. Chittar and Pattanamkal Scheme
10. Muttapally cut Scheme.

As a result of preliminary investigations it was found that the last scheme was not feasible. Hence further investigation was not proceeded with.

11. Vamanapuram Scheme. A preliminary project report was prepared after investigation in respect of this scheme.

Water Supply and Drainage

12. Comprehensive scheme for water supply to Ernakulam, Mattancherry, Fort Cochin, Alwaye, Parur, etc.,
13. Kottayam water supply scheme.

14. Quilon water supply scheme.
15. Trivandrum Drainage scheme, B and G Blocks.
16. Ernakulam Drainage scheme
17. Mattancherry Drainage scheme.

In addition to the above a number of schemes under Medium Irrigation Lift Irrigation, bridges, flood control, Inland Navigation, Anti-sea Erosion and Rural water supply were also investigated and estimates prepared. The reports and estimates of the following rural water supply schemes were forwarded to the Government.—

1. Neyyattinkara water supply scheme.
2. Perumbavoor water supply scheme.
3. Water supply to Karunagapally coastal area, etc.

Besides investigation of plan works, bridges on National Highways such as Neendakara bridge, Kannettil bridge and various railway over-bridges were also investigated by the Planning Staff.

Pamba Irrigation and Hydro Electric Investigation Division

The Pamba Irrigation and Hydro Electric Investigation Division was formed in June 1954 with Headquarters at Chengannur for conducting investigations for irrigation, navigation and flood control possibilities in Pamba river between Perinthenaruvy and Edathwa and also for the alignment of a first class motorable road from Rajampara to the Hydro Electric Project area at Kakki. This Division continued the investigation works during the year.

The first work, viz., investigation, of irrigation, navigation and flood control possibilities was completed in all respects and the final report with estimates and drawings sent up by the special staff. Further investigation of the branch channels, distributories, etc., was discontinued as the scheme was not included in the first year of the 2nd Five Year Plan. The second work, i. e., the investigation for the alignment of a first class motorable road from Rajampara to the Hydro Electric Project area was done for the Electrical Department. The alignment of the road was completed and final report, plans, estimates, etc., were sent up.

Details of some of the important works which were either completed or in progress during the year are given below.—

I. Irrigation, Navigation, etc.

	Rs.
Deepening Alleppey—Shertalai canal. The work was in good progress. Expenditure during the year was ..	2,82,770
Constructing toe-walls on the sides of Commercial and Waddai canals. The work was in good progress. Expenditure during the year ..	2,10,132

II. Buildings

	Rs.
Constructing S. A. T. Hospital for children at Ulloor. Expenditure during the year ..	51,621
Constructing a Radium ward at Ulloor. Expenditure during the year ..	2,18,009

	Rs.
Constructing Poly clinic. Expenditure during the year ..	3,47,034
Constructing a hostel for Trained Nurses. Expenditure during the year ..	91,071
Constructing a second hostel for men. Expenditure during the year ..	1,83,186
Constructing 20 blocks of C class quarters to accommodate 40 families. Expenditure during the year ..	1,71,844
Constructing General Hospital at Ulloor. Expenditure during the year ..	95,456
Constructing Medical College. Expenditure during the year ..	1,56,570
Extending Huzur Office South Wing. Expenditure during the year ..	59,763
Police Chief Stores, Accommodation of—constructing a two storied building on the side of Public Offices. Expenditure during the year ..	84,313
Providing additional accommodation to Model school. Expenditure during the year ..	58,732
Constructing a building for the Ayurveda College—Central block. Expenditure during the year ..	53,664
Repainting the walls, ceiling, etc., in the State Guest House. Expenditure during the year ..	43,067
Accommodation to Government Press. Extending a newly constructed building ..	52,306
Constructing a New Workshop at Chackai. Expenditure during the year ..	1,32,195
Construction of a Sub-jail at Nagercoil. Expenditure during the year ..	44,238
Construction of quarters for Policemen attached to Thiruvattar Police Station. Expenditure during the year ..	32,625
Constructing two General Wards of 32 beds each in T. B. Hospital, Nagercoil. Expenditure during the year ..	49,845
Accommodation for the Armed Reserve at Kottayam, Constructing barracks. Expenditure during the year ..	1,45,883
Additional accommodation to the Collectorate at Kottayam. Expenditure during the year ..	20,843
Constructing a building for the District Munsiff's court at Changanassery. Expenditure during the year ..	23,964
Improvements to Government hospital Lalam, Expenditure during the year ..	45,508
Construction of a new building for the High court Library. Work in progress. Expenditure during the year (4 blocks completed) ..	86,943
Remodelling blocks in Ram Mohan Palace. Work in progress. Expenditure during the year ..	92,704
Construction of quarters for the police officers and men attached to Thodupuzha police station, Commenced during the year and an amount of Rs. 97,296 incurred against the estimated cost of ..	2,06,010

	Rs.
Improvements to Central Jail, Viyyur—Work almost completed. An amount of Rs. 55,595 was incurred during the year against the estimated cost of ..	65,000
Constructing quarters for officers and men, Palayannur Police station. Estimate amount Rs. 65,000 and Rs. 45,000 spent during the year ..	..
K. V. Sanatorium, Mulakunnathukavu, Ward of 32 beds—work was nearing completion and an amount of Rs. 40,180 was spent during the year against the estimated cost of ..	94,150
Constructing quarters for Nurses in the District Hospital, Alleppey—Work completed. Expenditure during the year ..	69,802
Constructing quarters for the police staff at Alwaye. Work completed. Expenditure during the year ..	57,664
Constructing a building for the Veterinary Hospital, Alleppey—the work was completed. Expenditure during the year ..	33,602

III. Communications

Improvements to the road from Puthalam to Eatham-boly. Expenditure during the year. ..	48,834
Improvements to Quilon-Alleppey road, miles 5/2 to 7/0. Expenditure during the year. ..	53,086
Improvements to Quilon-Alleppey road miles 8/3 to 13/5. Expenditure during the year. ..	98,810
Improvements to Quilon-Alleppey road miles 18/0 to 22/0. Expenditure during the year. ..	56,897
Improvements to Quilon-Alleppey road miles 37/0 to 38/0. Expenditure during the year. ..	54,348
Constructing a bridge across Kudamaloor crossing. The Work is in good progress and an amount of Rs. 29,803 was spent during the year. ..	..
Improvements to the approach road to Factories at Alwaye—work in progress. Expenditure incurred in the year. ..	59,059
Constructing a road from Kanthalloor to Marayur. The estimated cost is Rs. 7,19,000. Work on first 3 miles completed except for soling and metalling. Expenditure during the year. ..	1,64,228
Reconstructing the Appanchira bridge in 10/7 Ettumanoor Vaikom road. The old bridge was damaged and submerged during flood. Estimate cost Rs. 90,700. Amount spent during the year. ..	57,037
Constructing a bridge over Edamala branch of Periyar river. Estimated cost of the work is Rs. 2,82,870. Work completed. Half the cost contributed by the Four Companies at Alwaye. ..	..
Cement concreting C.W. road miles 7 to 9. Expenditure during the year ..	1,51,657

	Rs.
Development of roads other than National Highways. Bitumen semi-grouting K. K. road miles 5/1 to 9/0 and 12 and 13. Expenditure during the year. ..	1,03,221
Improvements to Kavumbhagom Idayillam road 2nd Section 2/5 to 3/8. Expenditure during the year. ..	34,981
Bitumen semigrouting C. W. road in 9/0 to 16/0. Expenditure during the year. ..	1,22,756
Development of roads other than National Highways. Bitumen semigrouting K. K. road miles 27 to 35. Expenditure during the year. ..	2,16,021
Development of roads other than National Highways. Special surfacing K. K. Road miles 40 to 43. Expenditure during the year. ..	67,216
Development of roads other than National Highways. Bitumen semigrouting K. K. road miles 51 to 57. Expenditure during the year. ..	1,40,500
Development of roads other than National Highways. Bitumen semigrouting 59 to 63 Expenditure during the year. ..	1,41,346
Development of roads other than National Highways. special surfacing K. K. roads miles 36 to 39. Expenditure during the year. ..	80,377
Bitumen semigrouting K. K. road miles 14 to 16. Expenditure during the year. ..	39,759
Special surfacing K. K. road miles 44 to 47. Expenditure during the year. ..	1,02,252
Special surfacing Athirampuzha-Lalam road, 10/5 to 12/5. Expenditure during the year. ..	95,555
Bitumen semigrouting Lalam-Poonjar road 0/0 to 7/0. Expenditure for the year. ..	1,46,715
Special surfacing K. K. road miles 64 to 69. Expenditure during the year. ..	78,234
Erattupetta-Peermade road 1st Section. Expenditure during the year. ..	40,962
Constructing a bridge at Koratty. Expenditure during the year. ..	30,789
Constructing a bridge at Moolaplakal ..	53,918
Do. 2 bridges at Erattupetta ..	1,14,608
Forming approaches to Moolaplakal bridge ..	20,248
Reconstructing Thondara bridge. Expenditure during the year. ..	60,142
Constructing a bridge at Kumbazha ..	77,884
Do. Arattukadavu bridge ..	16,658
Reconstructing Ithipuzha bridge. The work was completed towards the close of the year. The bridge was opened for traffic during the year. The Expenditure for the year was Rs. 1,74,264 against the estimate amount of Rs. 5.5 lakhs. ..	..
Constructing a high level bridge at Kakkadassery. Expenditure during the year. ..	38,268

Piravam bridge.—Construction of. In progress during the year. Up to date expenditure is Rs. 46,763 against the estimated cost of Rs. 6,29,000 ..
Semigrouting Ettumanoor-Ernakulam road miles 8/3 to 14/7. Work in Progress. An amount of Rs. 94,369 was spent during the year against the estimated cost of Rs. 1,52,300. ..

Special Road Surfacing Works

Semigrouting Colachel-Parassery road miles 9 to 13. Expenditure during the year. ..	46,288
Semigrouting Thukalai-Thadikarankonam road miles 1 and 2. Expenditure during the year. ..	30,255
Semigrouting Thukalai-Thiruvithamcode road Expenditure during the year. ..	33,056
Semigrouting 1st mile of the road to Karingal Expenditure during the year. ..	37,623
Semigrouting Kottar-Dharmapuram road miles 1 and 2. Expenditure during the year. ..	38,337
Semigrouting Nagercoil-Rajakamangalam road. Expenditure during the year. ..	33,069
Semigrouting Changanacherry-Wazhoor road miles 9/0 to 16/0. This has been completed and the expenditure for the year ..	1,22,756
Semigrouting M.C. road miles 35/0 to 39/7. Expenditure during the year ..	61,615
Semigrouting M.C. road miles 40/0 to 45/3. Expenditure during the year ..	69,859
Semigrouting M.C. road miles 29/0 to 34/7. Expenditure during the year ..	1,67,127
Semigrouting Kayamkulam-Punalur road 28/0 to 33/3. Expenditure during the year ..	95,165
Semigrouting Kottiyam-Kundara road do. ..	86,448
Bitumen semigrouting M.C. road miles 9 to 20 except 9, 10 & 17. Expenditure during the year ..	2,21,398
Bitumen semigrouting M.C. road 21 to 29. Expenditure during the year ..	1,92,379
Bitumen semigrouting Attiagal-Chirayinkil road miles 2 & 3. Expenditure during the year ..	44,236
Widening and surfacing the road around University premises from Gas House junction to University junction. Expenditure during the year ..	2,10,171
Semigrouting Shangumughom-Veli road. Expenditure during the year ..	68,161
Semigrouting 1st 4 miles of the Neyyattinkara-Poovar road. Expenditure during the year ..	51,573
Bitumen semigrouting M.C. road miles 9, 10 & 17. Expenditure during the year ..	75,596
Construction of Meerankadavu bridge. Expenditure during the year ..	53,611

Rs.

Rs.

Semigrouting Anamalai road 18½ miles. Expenditure during the year ..	2,57,635
Semigrouting Anamalai road 26 miles. Expenditure during the year ..	2,58,229
Semigrouting Kandasankadavu road. A length of 2½ miles was semigrouted. Expenditure during the year ..	58,484
Semigrouting roads in Chittur Municipality. Work completed during the year with an expenditure of ..	1,76,712
Semigrouting Thommana road. An expenditure of Rs. 65,690 incurred during the year against the estimated cost of Rs. 1,47,672 ..	..
Semigrouting Trichur Municipal roads. Work nearing completion. Expenditure during the year ..	1,40,785
Semigrouting Veli road. An amount of Rs. 68,533 was incurred the work during the year ..	..
Semigrouting Chittur road. Against the estimate amount of Rs. 59,100 Rs. 42,910 were spent during the year ..	..
Semigrouting Muvattupuzha-Thodupuzha road miles 2 to 5. The work was completed. The expenditure during the year ..	68,197
Semigrouting Muvattopuzha-Thodupuzha road miles 6/1 to 12/5. The work completed. Expenditure during the year ..	75,969
Semigrouting A.M. road 14/8 to 22/4 and 23/7 to 31/8. Work almost completed. Expenditure during the year ..	43,404
Semigrouting A.M. road miles 45 to 64. An amount of Rs. 3,48,495 was spent on the work against the estimated cost of Rs. 5,02,130 ..	..
Semigrouting Ettumanoor-Ernakulam road 8/3 to 28/6. Twelve miles have been completed and the balance portion has been metalled during the year, Rs. 1,76,719 spent against the estimated cost of Rs. 3,65,400 ..	..
Semigrouting Ettumanoor-Ernakulam road miles 16/7 to 18/7. Work completed during the year. Rs. 44,893 spent on the work ..	..
Vypeen-Pallipuram road, 2nd Section. Construction of bridges. Ten bridge works were in progress of which five bridges were completed during the year. Expenditure during the year ..	1,51,456
Semigrouting Udayamperur road-work completed. Expenditure during the year ..	46,918

IV, Miscellaneous

Construction of Gandhi Memorial at Cape. Expenditure during the year ..	75,292
Construction of one mile experimental sea wall and groynes from Manassery to south. Work almost completed by the end of the year. Expenditure during the year ..	8,10,597

Rs.

Construction of office building for Colonisation, Devicolam. The work was almost completed and the expenditure to end of 3/56 is Rs: 66,706 against the estimated cost of Rs. 77,600

Constructing drainage system on both sides of the 70 feet road, Ernakulam. Work was nearing completion by the close of the year. Expenditure during the year

1,67,045

CHAPTER IV

WATER SUPPLY AND DRAINAGE SCHEMES

The various Water Works in the State are :—

1. Willingdon Water Works, Trivandrum
2. M.S.P.B. Water Works, Alleppey
3. Ernakulam-Chowara Water Works
4. M.V. Water Works, Nagercoil
5. Sachivothama Water Works, Shencottah
6. Muttom Water Supply Scheme
7. Karingal Water Supply Scheme
8. Sinking Tube wells in Coastal areas
9. Water supply to lithoral tracts
10. Investigation of water supply to the fishing villages of Neendakara and extension to Quilon, Karunagapally, etc.
11. Chellanam Water Works
12. Ramavarmapuram Water Works, Trichur
13. Nemmara Water Works
14. Aiylore Water Works
15. Thiruvilwamala Water Works

The operation and maintenance of the Trivandrum Water Works and Trivandrum Drainage Scheme, Sachivothama Water Works, Shencottah Marthandavarma Water Works, Nagercoil, investigation of water supply to the villages of Neendakara, Karunagapally, etc., water supply investigation for villages of South Travancore, sinking of tube wells in coastal areas, etc., were under the Executive Engineer, Willingdon Water Works and Drainage Division, Trivandrum.

The Water Works at Chowara-Ernakulam and surrounding areas were under Ernakulam Water Works Division.

A Water Works Division was created at Trichur from 10th May 1955 for Water Supply Scheme of Trichur Town. The maintenance of Nemmara, Aiylore, Thiruvilwamala and Ramavarmapuram Water Works which was under the Executive Engineer, Trichur was transferred to this Division in July 1955.

1. Willingdon Water Works

A. Operation and maintenance

Collection and storage at head works.

(1) *Rainfall yield and storage.*—The total rainfall recorded at the lower section in Aruvikara was 85.20 inches against 62.63 in the preceding year.

(2) *Reservoir.*—The reservoir was over flowing throughout the year except for 23 days in March. The maximum level of water in the reservoir was 149.0 and the minimum level noticed was 145.0 against 151.0 and 145.2 respectively in the preceding year. The water was clear except during the monsoon when turbidity was noticed. The maximum turbidity observed was 1500 and the minimum 12.

(3) *Dam and Head Works.*—The structures were maintained satisfactorily. The garden was also kept in good condition.

(4) *Pre-settling.*—The treated water P.H. valve ranged between 7.0 to 9.2 and dosage of lime ranged between 1.75 and 0.18. The complete emptying and washing of the settling tank was done four times in the year. The settling tanks were properly maintained and kept in good condition.

B. Conveyance

1. *Gravitation main.*—The main and its fittings were working satisfactorily and they were properly maintained. The culverts' supports and under-tunnels were inspected and properly maintained.

2. *Venturi Meter.*—It worked satisfactorily throughout the year. The total quantity of water registered by the venturi meter for the year was 92,49,70,000 gallons.

C. Purification

(1) *Alum treatment* aeration, coagulation and settlement were done by exposure to sun's rays. Filtration was carried on as usual with utmost care.

(2) *Lime treatment.*—The Aruvikara river water being acidic, lime treatment was given to maintain alkaline non-aggressive condition. The total quantity of lime used was 3957.41 C.ft.

(3) *Filters.*—All the filters were working during the whole year. The water was treated with sulphate of Alumina. The total quantity of alum used for the year was 1,21,976 lb. The total quantity of lime used was 1,37,400 lb.

(4) *Chlorination.*—This was done in the filter house and the total quantity of chlorine administered during the year was 354 lb.

(5) *Purity of water.*—Samples of water were collected and tested chemically and bacteriologically. Details of testing are given below :—

Water.—

Chemical Analysis	..	92
Bacteriological	..	1658

Other samples.—

Alum, Lime, Bleaching Powder, etc.	..	53
------------------------------------	----	----

Bacteriological.—

Raw Water	..	280
L. F. Present in 10 C. C. volume	..	280

<i>Filterate.</i> —	..	565
L. F. absent in 100 C. C. volume	..	73
<i>Street samples.</i> —		
L. F. absent in 50 C. C. volume	..	254

D. Distribution

(1) *Balancing Reservoir.*—(a) *Low level Service Reservoir.*—Both compartments were working properly throughout the year. The northern compartment was washed and cleaned on 15th March 1955 and the southern on 27th February 1955.

(b) *High level Service Reservoir.*—Both compartments were working satisfactorily throughout the year. The eastern tank was washed and cleaned on 16th March 1955 and the western on 2nd March 1955.

(2) *Pumps and Motors.*—All the three units were working throughout the year. The quantity of power consumed was 505,797 K.W.H.

(3) *Venturi Meters 24" and 18".*—The 24" Meter was working satisfactorily during the year. The 18" meter was not working for a long time.

(4) *New Mains and Distribution.*—Statement XX shows the list of new extensions. The total length was 50379 Rft.

(5) *Street Fountains.*—There were 955 street fountains in service during the year 1954-55 and 65 fountains were erected during the year.

(6) *Fire Hydrants.*—All the hydrants were inspected and maintained.

(7) *Air Valves.*—There were 214 air valves in service and all of them were functioning properly. Three air valves were fitted during the year.

(8) *Meters.*—There were 5937 meters in service at the end of 1954-55, 997 meters were provided during the year of which 43 were in Government buildings, 25 for casual supply and the rest for private service connections. 41 meters were supplied by private parties themselves.

Out of the 299 defective meters tested, 33 could not be repaired for want of spare parts.

(9) *Emergency Staff.*—The total number of phone calls received during the year was 1813. All of them were promptly attended to.

(10) *Water Accounts.*—The total quantity of water sent out for use in the city was 91,36,50,000 gallons. The maximum consumption for the city in a month was 9,51,63,000 gallons in March and minimum 6,75,37,000 gallons in June. The maximum and minimum consumptions in pumping service were 22,52,000 gallons and 12,98,000 gallons respectively on 21st March 1956 and 15th June 1955. The maximum and minimum consumption in gravity service were 11,40,000 gallons on 1st April 1955 and 7,20,000 gallons on 29th June 1955.

2. Sachivothama Water Works, Shencottah

(a) *Collection and pumping.*—The total quantity of water pumped during the year was 6,19,90,000 gallons. The total quantity of energy consumed during the year was 41,934 units as against 41,148 units last year. Pumping was carried out for 4,450 hours as against 4,236 hours last year. The average number of hours of pumping per day was 12.2 against 11.7 hours during the preceding year. The maximum water level in the well was 42' on 26th November 1955 and the minimum level 19' 3" on 31st March 1956.

Chlorination.—The total quantity of chlorine administered during the year was 29.4 lbs. against 62 lbs. last year.

Storage.—The Reservoir was functioning properly throughout the year. Out of the two deep well pumps one was working throughout the year while the other was repaired and refitted.

Distribution.—The mains and distributors functioned properly.

House connections.—54 house connections were given during the year as against 29 in 1954-55.

3. Marthandavarma Water Works, Nagercoil, —Operation and maintenance

The collection of storage water at the impounding reservoir at Mukkadai was quite satisfactory and there was no shortage in any part of the year.

Rainfall.—The rainfall observed during the year was 56.35".

Reservoir.—The maximum level at Mukkadai head works was 41.10 feet and the minimum level 35.3 feet.

Dam Reservoir and other structures.—The dam reservoir and other masonry structures such as, valve house quarters, etc., were properly maintained.

Purification.—Water was purified by regular filtration after coagulation in the settling tank with the application of alum and liquid chlorine. Lime treatment was not adopted since it was found unnecessary. Periodical tests of filtered and raw water were conducted. The results were quite satisfactory.

Distribution.—The distribution of water was effected satisfactorily and there was no break down in supply during the year.

Consumption of water.—The quantity of water filtered during the year was 30,05,65,000 gallons of which the average daily consumption in the high level zone was 3,07,000 gallons and that in the low level zone 5,16,000 gallons. The quantity of electrical energy consumed for pumping to H.L.S.R. during the year was 1,30,681 K. W. H.

House connections.—Water supply connection totalling 104 were given to private premises during the year.

Supply to other villages.—Raw water was tapped from the gravitation main and supplied to the villages of Bhuthapandy, Thittavila, Arazankuzhi, Erachakulam and Putheri.

Progress of capital works.—Laying of 6" pipes for water supply extension to Cape was completed. Construction of the Booster station was taken in hand.

A few streetmain extensions were carried out and the amount required for the work was deposited by the Municipality. Total number of street fountains is 428.

4. *Investigation of water supply to the fishing villages of Neendakara and water supply extension to Quilon and Karunagapally.*—Two estimates on relating to water supply to Quilon town and the other for water supply to rural areas (Sakthikulangara, Neendakara, Oachira, Chavara, Panmana, etc.) were prepared after investigation. The estimate for the Quilon water supply scheme was sanctioned by Government and the work is expected to begin in 1956-57.

5. *Water supply investigation for villages of South Travancore.*—The investigation of Keezhimidalam water supply scheme was in progress during

the year. The Karingal water works was almost completed except for some petty works. Water supply was also started during year under review.

6. *Sinking of tube wells in Coastal areas.*—During the year under review the sinking of four wells was taken up at Kallikad, Kainakari, Kumarakom and Kayamkulam. These works were in progress when the control of this section was transferred to the Public Health Engineer on 29th December 1955.

7. *M.S.P.B. Water Works, Alleppey.*—The water works at Alleppey continued to be under the Executive Engineer, Water Works Division, Ernakulam throughout the year. The maintenance works were carried out satisfactorily.

The supply of water through the existing two tube wells was not adequate for the Alleppey town. A third tube well was therefore constructed to supplement the supply of water.

The total quantity of water proposed from Punnapra head works during the year was 11,48,37,600/- gallons.

The Alleppey water works is treated as a deposit work of the Alleppey Municipality and the expenditure is met by the Municipality and the receipts are also collected by it.

Statement No. XVII (A) shows the demand, collection and balance of water charges.

8. *Ernakulam Water Works.*—The head works at Chowara was maintained properly. Supply was made from the head works to Ernakulam, Mattancherry, Cochin Harbour and other places. During the summer season and also on occasions of failure of current supply pumping was carried on by oil engines. The supply of water was supplemented by pumping water from Alwaye water works also.

The water pumped from Alwaye and Chowara was being boosted to Ernakulam through the Kalamasseri and Pachalam Pumping station which functioned satisfactorily. There was adequate supply of water to Ernakulam Municipality.

The Perumanoor Booster station continued to operate satisfactorily supplying the water required for Mattancherry and Fort Cochin Municipalities and also for the Harbour, Naval Base, etc.

The Thoppumpadi Pumping station also functioned satisfactorily throughout the year to maintain the water supply to Chellanam area.

The supply of water to littoral tracts, viz., Vypeen, Vallarpadam, Panambukad etc., was carried on satisfactorily through the L.C.T. crafts.

The quantity of water Pumped from the Chowara and Alwaye Pumping stations during the year was 87,84,00,000 and 13,39,60,249 gallons respectively.

Statement No. XVI (A) shows the receipts under meter ratings and other items of revenue in Chowara Ernakulam water works. The total revenue amounted to Rs. 4,29,270.

Statement XVII (B) shows the demand, collection and balance of water charges.

Statement No. XXI (A) shows the capital outlay on water supply schemes. Brief report on the progress of the schemes is given below:—

(1) Renewing the corroded and leaking 6" vitualic pipe line by 6" A.C. pipes from Vaduthala to Edapally. This work was completed last year

and final payment and adjustment of cost of materials were made during the year.

(2) *Increased off-take of water from Alwaye river.*—The undernoted works which form part of the above scheme were in progress during the year.

(a) Construction of an additional settling tank of 3 lakhs. gallon capacity at Chowara.

(b) Laying 15" pipe line from Thoppumpady to Fort Cochin.

(c) Laying 12" pipe line from Ayyappankavu road to reservoir compound.

(d) Laying 12" pipe from Perumanoor Pumping station to eastern end of Venduruthy bridge.

(e) Laying 12" everite pipe line from western end of Venduruthy bridge to eastern end of Mattancherry bridge.

(f) Laying 12" ipe line over Harbour bridges.

(g) Construction of Watchman's quarters at reservoir compound.

(h) Construction of Watchman's and lineman's quarters at Kalamassery Pumping station and (i) Constructing Protective drain and providing barbed wire fencing at Kalamassery Pumping station.

(3) Extension of pipe line to Kaloor Market completed.

(4) Laying 2" A.C. pipe line along Vijaya canal completed.

(5) Constructing a compound wall, Manhole chamber, etc., at Pachalam Booster station completed.

(6) Water supply to Bolghatty. Mulavukad, etc. Islands.

About 5,400 ft. of 6" pipes and 2,735 ft. of 4" pipes were laid and the work is in progress.

(7) *Laying 12" Submarine pipe line from Ernakulam to Vypeen.*—Most of the pipes required for this work were received during the year.

Works for other departments.—(1) Repairs to the Gas Tank, Maharaja's College, and

(2) Construction of a 22,000 gallons Capacity R. C. Elevated water reservoir for the Maharaja's College, Ernakulam were in progress.

Providing separate meters for water supply to Ram Mohan Palace and water supply connection to the High School Elamkunnappuzha were taken up and were in progress.

Deposit Works.—Laying 8" C. I. pipe line to connect the Submarine pipe line termination point at Palluruthy to the Thoppumpady Pumping station to work as a Booster station to increase the water supply to Mattancherry was completed during the year.

Water Works in Trichur Area.—The maintenance of the Ramavarampuram water works, Nemmara water works, Ayloze water works, and Thiruvilwamala water work were attended to by the Executive Engineer, P.W.D., Trichur till July 1955, when these water works were transferred to the new Water Works Division formed at Trichur in May 1955.

The investigation of the water supply to Trichur town was the main work done by this new Division. Investigation was completed and tenders were fixed for the follo wing works:—

(1) Supply of Hume steel pipes for gravity main.

(2) Construction of R.C.C. over heed tank at Thekumkad Maidan, Trichur.

(3) *Supply and erection of Purification Plant at Peechi.*—Statement No. XVI (B) gives the receipts under meter ratings and other items of revenue.

Statement No. XVII (B) shows the demand, collection and balance of water charges.

Trivandrum Drainage Scheme.—*Progress of work.*—Several works of sewer extensions were taken up during the year, details of which are given below—

6" Pipes laid	1,211 Rft.
4" do.	3,607 "
Manholes	67 Numbers
Drop Lamp holes	6 "

The total length of sewers laid was 4,818 Rft. and the up-to-date length of sewers in the Taivandrum Drainage Scheme is 83 miles, 5 furlongs and 38 feet.

House Connections.—The number of house connection outlets provided during the year was 210. The up-to-date number of house connections under the Trivandrum Drainage Scheme till the close of the year was 6,335. Of these only 2,425 was made use of by the public.

Internal drainage arrangements.—Particulars of internal drainage arrangements are given below:—

(1) Proposals received till end of March 1955	..	3,863
(2) Proposals received during the year	..	629
(3) Total No. of proposals received	..	4,492
(4) House connections given till March 1955	..	2,115
(5) House connections given during the year	..	310
(6) Total No. of House connections given	..	2,425

The following Sanitary Installation works to Government buildings were carried out during the year:—

(1) Separation of Judiciary from the Executive—Additions and alterations to the Sanitary Installation works in the District Collector's Office, Trivandrum.

(2) Quarters of the Sergeant of the Secretariat—Providing a flush-out latrine.

(3) Providing additional sanitary fittings to the Chief Engineer's Office in the New Public Office Buildings.

(4) Construction of a flush-out latrine in the Fort Police Station—Providing water supply and sanitary installation.

(5) Improvements to Indian Assistant's quarters, Thycaud.

(6) Providing water supply and sanitary installation to the newly constructed Ward in the premises of Sree Chitra Home.

(7) Providing flush-out latrine and drainage connection to Karamana Primary School.

(8) Additional accommodation to Public Health Laboratory—Providing sanitary installation to Chemical Examination Block.

(9) Providing additional accommodation to the Model School.

(10) Providing water supply and sanitary installation to Malaria Laboratory.

(11) Repairs to the Press building in the Certified School—Sanitary installation to.

(12) Providing sanitary installation to the Warden's quarters attached to the Women's College Hostel.

(13) Providing wash hand basin and closet in the private room in the II Additional Second Class Magistrate.

(14) Providing water supply and sanitary installation to the quarters of the State Guests Department.

(15) Reallocation of the rooms in the Secretariat—Sanitary installations.

(16) Providing water supply and sanitary installation to the Ladies Waiting Room in the Secretariat buildings.

(17) Providing water supply and sanitary installation to the Sanskrit High School, Trivandrum.

(18) Ayurveda College Central Block, Sanitary installation to—

(19) Sanitary installation to Press Reporters Room.

Pumping plants.—The pumping plants at Kuriathi, Karamana, General Hospital and S.M.V. Building were in good condition and they were working satisfactorily. The total quantity of sewage pumped out from the main pumping station at Kuriathi was 322.28 million gallons. The total quantity of electrical energy consumed during the year under review was 1,19,546 units.

Sewage farm.—The area under cultivation during the year was about 3½ acres and fodder crops were raised. The farm was leased out for Rs. 1,580 during the year.

Storm water drainage.—The following schemes for the efficient drainage of storm water in the City were taken up during the year and about 3/4 of the works completed.

1. Improvements to Puthericandam channel from Pathoor junction to Kannamoolathodu.
2. Storm water disposal in Kunnukuzhy Valley 2nd stage and construction of additional drains.
3. Storm water disposal in Ophthalmic Hospital.
4. Constructing masonry drains around S. M. V. Buildings.
5. Constructing masonry drain by the side of General Hospital road to Vanchiyoor Primary School and extension to Chirakulam.
6. Thampanoor Valley 1st stage from the Observatory.
7. Improvements to Cochar channel—Providing R. C. C. pipes in place of open channel from Copper Foundry to Pangode.
8. Constructing masonry drain at Kanjettumukku, Jagathy.
9. Storm water drainage in Kuriyathi yelah:—
 - (a) Constructing flood moderation tank.

- (b) Constructing various inlets.
- (c) Constructing outlet channel from flood moderation tank up to Radhapura Street
- (d) Constructing Arched conduit from chainage 2480 to 4260 from Radhapura Street to West Street.
- (e) Constructing storm water drain from Valiachala to Killiyar.

Medical Centre, Oollur.—The Drainage Scheme of this centre is functioning as a separate unit independent of the City Drainage. Details of Sewer extension are given below:—

6" Sewer	..	2 455 Rft.
4" Sewer	..	1,920 Rft.
Manholes	..	45 Nos.

The following sanitary installation works were carried out during the year.—

1. Sanitary installation to Additional Men's Hostel.
2. Do. D Class Quarters.
3. Do. Photographic Room of Medical College.
4. Alterations to School of Nursing.
5. Sanitary installation to additional kitchen and dining room in Ladies Hostel.
6. Sanitary installation to waiting shed.

All the Water Works and Drainage Schemes were maintained properly.

CHAPTER V

STORES AND GOVERNMENT ENGINEERING WORKSHOPS

A. Stores New Workshops and Pier Division

The two major works under this Division were construction of a new Pier at Valiathura and construction of a new Workshop at Chakkai. Satisfactory progress was maintained in both the works and these were more or less completed.

The expenditure incurred on construction of the new Pier at Valiathurai was Rs. 2,35,821 during the year and Rs. 11,29,582 up to end of the year. The expenditure on construction of the new Workshops at Chakkai during the year and up to end of the year were Rs. 1,32,195 and Rs. 22,85,031 respectively.

P. W. D. General Stores.—The P. W. D. General Stores continued to cater to the needs of the Department in general and also of other Departments as well. The total value of materials issued to P. W. Divisions and other Departments during the year amounted to Rs. 28,49,790 against Rs. 25,65,898 during the previous year. The total value of stock available in the P. W. D. General Stores at the close of the year was Rs. 19,62,922 against a reserve limit of Rs. 35 lakhs.

B. Government Engineering Workshops, Chakkai

The expenditure on annual repairs and maintenance was Rs. 7,859 and on Tools and Plant Rs. 23,771.

A sum of Rs. 1,42,574 was spent during the year on the reorganisation of the Workshops under "81 Capital Account of Civil Works".

1,616 work orders were issued during the year, out of which 227 were for private works and 1,389 for Government works. Manufacture of furniture for various Government institutions was an important item of work undertaken in the Workshops—Works in the Foundry, Machine, Smithy, Photo, Electrical, Painting and Upholstery Shops were also undertaken. There was some delay in the procurement of iron and steel due to shortage of stock with the dealers. Due to the non-allotment of wagons there was also some delay in the procurement of coke.

Supplies and Services rendered from Government Engineering Workshops to the Public Works Division and other Departments.—Supplies and services rendered by the Government Engineering Workshops during the year amounted to Rs. 21,76,719 against Rs. 14,08,538 during the previous year. Statement No. XIV shows the details of supplies and services rendered.

Saw Mill Operation.—The quantity of timber received during the year, issued during the year and the balance at the close of the year is given below.—

	Quantity received		Quantity issued		Balance	
	Quantity cft.	Value Rs.	Quantity cft.	Value Rs.	Quantity cft.	Value Rs.
Teak wood ..	31783.5	3,34,280	28065.6	2,95,072	3717.9	39,208
Anjili wood ..	5353.4	40,150	2159.4	16,195	3194.0	23,955

Statement XV shows the receipts, issues and balances under the various Suspense heads in the Government Engineering Workshops.

CHAPTER VI

MISCELLANEOUS

1. *Rain and Flood damages.*—There were no serious damages on account of heavy rains and floods during the year. All minor damages caused to Communications, Navigation Canals Lift Irrigation and other Irrigation Channels, etc., were promptly restored charging the cost against the respective Maintenance grants.

Some breaches occurred in the Kodayar Project area owing to heavy rains in November and December and these were promptly repaired. The cost of such repairs amounted to Rs. 50,000.

There were some earth slips in the High Ranges in Alwaye-Munnar road, Munnar-Chinnar road and the Cardamom road. All the slips were removed without causing interruption to traffic.

Owing to heavy rains certain breaches occurred to Kuzhoor Irrigation Scheme and Kakad Irrigation Scheme No. I in the Trichur Division. All the breaches were immediately closed.

2. *Ryots roads.*—The policy of improving and taking under departmental maintenance roads opened by Ryots was continued. The Special V. R. D. Sub-Divisions formed for taking over such roads and for improving the means of rural communications continued to function throughout the year.

3. *Working of Canals and Ferries Act.*—The main work of control of Back-water Navigation and also collection of revenue therefrom continued to be vested with the Special Sub-Division Officer, Canal, working solely for this purpose with Head Quarters at Alleppey and functioning directly under the Chief Engineer.

All the ferries in the State under departmental maintenance were functioning satisfactorily during the year.

4. *Visits of distinguished Guests.*—Among the distinguished Guests who visited the State, mention may be made of the following:—

- (1) Sri. Jawaharlal Nehru, Prime Minister of India in December 1955.
- (2) Dr. Rajendra Prasad, President of India in February 1956.
- (3) His Highness the Maharaja of Bharatpur.
- (4) Sri. P. S. Desmukh, Minister for Agriculture, Government of India.
- (5) Sri. B. V. Keskar, Minister for Information and Broadcasting, Government of India.
- (6) Sri. Abid Ali, Deputy Minister for Labour, Government of India.
- (7) Sri. Kama Raj Nadar, Chief Minister of Madras.
- (8) The Chinese Cultural Delegation.
- (9) The Press Delegation of India.
- (10) Sri D. V. Joglaker, Director, Central Water and Power Research Station, Poona, Government of India.
- (11) Sri. Vasudev, Director (W. I. N.), Central Water and Power Commission.
- (12) Sri. S. K. Dey, Administrator, Community Project.

5. *Post-War conditions.*—The cost of building materials stores and labour continued more or less on the same level as in the preceding year. The acute shortage of cement and iron materials from December 1955 affected the progress of works considerably during the last quarter of the year.

6. *Trade depression, Unemployment and Relief Measures.*—No work of any special nature was sanctioned during the year by way of relief to

unemployed labourers. To meet the increased cost of labour and materials 25 per cent increase in the rate over 1122 schedule continued to be in force throughout the year.

7. *Miscellaneous.*—During the year 182 estimates involving an amount of Rs. 5.88 crores were sanctioned in the Chief Engineer's Office. Most of the important designs relating to buildings, communications, etc., were prepared in the Chief Engineer's Office.

A list of the major designs prepared during the year is given below:—

- (1) 60' span bridge in Mutholi-Poovarani road.
- (2) Bridge at 4/8 Mattakara road.
- (3) Submersible bridge in Sabarimala Village road near Cherukol-puzha.
- (4) Kulathukadavu bridge in Ampara-Mankompu road.
- (5) Bridge in Mutholi-Palai road across Meenachil thodu.
- (6) Parampayam Bridge.
- (7) Bridge in Mannanam-Kaipuzha road.
- (8) Bridge in Porapuzha-Vazhithala road.
- (9) Manali bridge in N. H. 47.
- (10) Bridge at 5/1 A. A. road. N. H. 47.
- (11) Bridge at the 9th mile of Perumpavoor-Alwaye road.
- (12) Revised design of Meerankadavu bridge.
- (13) Bridge 2/8 Kavumbhagam-Idinjillam road.
- (14) Bridge across Killiar.
- (15) Kannettil Bridge in N. H. 47.
- (16) Bridge at 2/3 of Kunnamkulam road 1st Section W. C. road.
- (17) Bridge at Mandanchira in Peechi-Pattikkad road.
- (18) Service Reservoir for Trichur Water Supply Scheme.
- (19) Bridge across Muthiankavu Streem.
- (20) Aqueduct in Vazhani L. B. C. 7th Section.
- (21) Bridge across T. S. Canal at Thottapalli.
- (22) Parakadavu Bridge.
- (23) Aqueduct for Vilathura Lift Irrigation Scheme.
- (24) Bridge in Onamthuruthu-Kurumalloor road.
- (25) Chowalloorpadi bridge.

The number of interpellations relating to the P. W. D. referred to the Chief Engineer during the year was 539 and they were promptly answered.

Particulars of Temporary Staff employed during 1955-56

I. Temporary staff continued from previous year (G.P.P.W. A1-816/55/PWC/5-5-55)

A. Irrigation Works.

Pamba Irrigation and Hydro-Electric Schemes Investigation Division, Division Office Establishment.

1. Division Office Establishment—

			Rs.
Senior Accountant	..	1	80-120
Account Clerks	..	3	45- 75
Clerks	..	2	30- 45
Draftsmen	..	4	45- 75
Tracer	..	1	30- 45

2. Sub-division and Section Staff—

Assistant Engineer	..	2	225-325
Supervisors	..	6	125-225
Overseers	..	6	80-100
Draftsmen	..	2	45- 75
Head Clerks	..	2	45- 75
Clerks	..	10	30- 45
Typists	..	2	30-120
Peons	..	12	20

3. Neyyar Irrigation Project (Temporary staff)—

Executive Engineers	..	2	450-750
Assistant Engineers	..	5	225-325
Head Draftsman	..	1	125-225
Supervisors	..	12	125-225
Mechanical Supervisor	..	1	125-225
Draftsmen	..	2	80-100
Draftsmen	..	5	45- 75
Overseers	..	10	80-100
Overseers	..	5	45- 75
Tracers	..	3	30- 45
Divisional Accountant	..	1	130-355
Head Clerks	..	2	80-120
Senior Accountant	..	1	80-120
Clerks	..	8	45- 75
Clerks	..	12	30- 45
Store Keeper	..	1	45- 75
Blue Printer	..	1	30- 45
Typists	..	5	30-120
Peons	..	20	20
Compounder	..	1	30- 45
Hospital Attendant	..	1	25

Rs.

4. Land Acquisition staff—

Land Acquisition officer	..	1	175-225
Revenue Supervisor	..	1	80-120
Revenue Supervisors	..	2	45- 75
Revenue Accountants	..	6	25- 30
Clerk	..	1	45- 75
Clerks	..	2	30- 45
Chainmen	..	12	20
Peon	..	1	20
Copyist	..	1	25- 30
Typist	..	1	30-120
Surveyor	..	1	80-120

5. Kuttanad Development Scheme—

Executive Engineer	..	1	450-750
Assistant Engineers	..	2	225-325
Supervisors	..	5	125-225
Head Draftsman	..	1	125-225
Draftsmen	..	6	45- 75
Overseers	..	3	80-100
Divisional Accountant	..	1	130-355
Head Clerk	..	1	80-120
Clerks	..	5	45- 75
Clerks	..	12	30- 45
Typists	..	2	30-120
Peons	..	13	20

3-(a). Land Acquisition staff for Kuttanad Development Scheme—

Land Acquisition Officer	..	1	175-225
Revenue Supervisors	..	3	45- 75
Revenue Accountants	..	6	25- 30
Peons	..	2	20

6. Wadakkancherry River Valley Project—

Assistant Engineers	..	2	225-325
Supervisors	..	6	125-225
Draftsman	..	1	80-100
Assistant Draftsman	..	1	45- 75
Clerks	..	2	45- 75
Clerks	..	4	30- 45
Peons	..	9	20
Mechanic	..	1	45- 75
Typist	..	1	30-120

Land Acquisition staff—

Revenue Inspector	..	1	80-120
Surveyors	..	4	25- 40
Chainmen	..	8	20
Peon	..	1	20
PW—3			

			Rs.
7. Staff for the preparation of Ayacut lists for Wadakkancherry River Val Project—			
Revenue Inspector	..	1	80-120
Revenue Surveyors	..	4	25- 30
Chainmen	..	8	20
Peon	..	1	20
Supervisor	..	1	125-225
Work Superintendents	..	2	30- 45
Peon	..	1	20
8. Investigation of Chalakudy Irrigation Scheme—II Stage—			
Supervisors	..	3	125-225
Overseers	..	6	80-100
Draftsman	..	1	45- 75
Clerks	..	2	30- 45
Peons	..	3	20
Head Clerk	..	1	45- 75
9. Investigation of Chittar Scheme—			
Supervisor	..	1	125-225
Overseer	..	1	45- 75
Clerk	..	1	30- 45
Peon	..	1	20
10. Investigation of the extent of cultivation under Kodayar Project.—			
Supervisor	..	1	125-225
Overseers	..	2	80-100
Clerk	..	1	30- 45
11. 18-A. Irrigation Works—IV. Establishment outside Developer Schemes.—			
Canal Staff			
Clerk	..	1	45- 75
Clerks	..	2	30- 45
12. Motor Boat Staff.—			
Drivers	..	2	45- 75
Syrang	..	1	30- 45
Steerman	..	1	20
Deckman	..	4	20
13. Staff for Regional Survey of potential water resources.—			
Supervisors	..	2	125-225
Overseers	..	4	80-100
Surveyors	..	8	45- 75
14. Investigation of Cheerakuzhi Scheme.—			
Assistant Engineer	..	1	225-325
Supervisors	..	2	125-225
Overseer	..	1	80-100
Draftsman	..	1	45- 75
Senior Clerk	..	1	45- 75
Clerk	..	1	30- 45
Typist	..	1	30-120
Peons	..	4	20

			Rs.
15. Investigation of Muttappally Out Schemes.—			
Assistant Engineer	..	1	225-325
Supervisors	..	2	125-225
Overseers	..	2	80-100
Overseers	..	2	45- 75
Draftsman	..	1	45- 75
Senior Clerk	..	1	45- 75
Clerk	..	1	30- 45
Typist	..	1	30-120
Peons	..	4	20
16. Investigation of Bhoothathankettu Scheme.—			
Assistant Engineer	..	1	225-325
Supervisors	..	4	125-225
Overseers	..	8	80-100
Draftsman	..	1	45- 75
Head Clerk	..	1	45- 75
Clerks	..	3	30- 45
Typist	..	1	30-120
Peons	..	4	20
50—Civil Works—(e) Establishment—I Direction			
17. Temporary staff for Chief Engineer's Office.—			
Architectural Head Draftsman	..	1	125-225
Tracers	..	8	30- 45
Junior Superintendents	..	2	125-150
Clerks	..	4	80-120
Clerks	..	4	45- 75
Clerks	..	2	30- 45
Clerks	..	2	30-120
Typists	..	1	30-120
Malayalam Typist	..	1	20
Peons	..	5	20
Leave Reserve Clerks	..	3	30- 45
18. Temporary staff for Superintending Engineer's Office.—			
Clerks	..	4	80-120
Clerks	..	4	45- 75
Clerks	..	4	30- 45
Clerks	..	2	30-120
Typists	..	2	30- 45
Leave Reserve Clerks	..	2	20
Peons	..	2	20
19. Government Engineering Workshops—Temporary Staff.—			
Superintendent	..	1	450-750
General Foreman	..	1	225-325
Planning Officer	..	1	175-275
Cost Accountant	..	1	175-275
Chief Accountant	..	1	175-225
Accountant	..	1	80-100
Accountants	..	3	45- 75
Accountant	..	1	30- 45
Cashier	..	1	80-100
over 2.			

			Rs.
Typist	..	1	30-120
Store Clerk	..	1	30- 45
Storekeeper	..	1	125-175
Assistant Storekeeper	..	1	45- 75
Phone Operator	..	1	30- 45
Attenders	..	6	20- 25
Chargehand	..	9	45- 75
Despatcher	..	1	45- 75
Sergeant	..	1	45- 75
Spray Painter	..	1	45- 75
Lorry Drivers	..	3	45- 75
Lorry Drivers	..	4	30- 45
Electricians	..	3	30- 45
Timekeepers	..	11	30- 45
Out-turn-taker	..	1	30- 45
Oiler	..	1	22
Watchers	..	9	20
Cleaners	..	6	20
Gate Clerk	..	1	30- 45
Draftsman	..	1	45- 75
Tracer	..	1	30- 45
Foremen	..	10	80-120
Inventory Officer	..	1	125-175
Assistant	..	1	80-100
Attender	..	1	25- 30
Clerks	..	2	45- 75
Clerks	..	3	30- 45
Crane Operator	..	1	45- 75
Electrical Truck Operator	..	4	30- 45
Lorry Driver	..	1	45- 75
Cleaner	..	1	20
Chargehands	..	3	45- 75
Timekeeper	..	2	30- 45
Assistant Store keeper	..	1	45- 75
Store clerks	..	2	30- 45
Stenographer	..	1	45-120
Attender	..	1	25- 40
Foreman	..	1	80-120
Mechanic	..	1	30- 45
58—Civil Works—Establishment—Executive—Other Executive			
Establishment			
20. Temporary staff for the 7 Territorial Divisions—			
Division Office—			
Senior Accountants	..	7	80-120
Clerks	..	7	30- 45
Leave Reserve clerks	..	7	30- 45
Sub-Division Offices—			
Clerks	..	21	30- 45
Section Offices—			
Overseers	..	25	45- 75

			Rs.
21. Temporary Staff under Ernakulam and Trichur Divisions—			
Supervisor	..	1	125-225
Overseers	..	3	45- 75
Draftsman	..	1	45- 75
Lorry Drivers	..	8	45- 75
Cleaners	..	8	20
22. Staff for Stores, New Workshops and Pier Division—			
General Store keeper	..	1	175-225
Clerks	..	2	45- 75
Clerks	..	2	30- 45
Leave Reserve clerk	..	1	30- 45
Draftsman	..	1	45- 75
23. Staff for Road Concreting and Maintenance Divisions—			
Division Offices—			
Clerk	..	1	45- 75
Clerks	..	2	30- 45
Draftsman	..	2	45- 75
24. Sub-Divisions and Sections—			
Assistant Engineer	..	1	225-325
Head Clerk	..	1	45- 75
Clerks	..	3	30- 45
Typist	..	1	30-120
Peons	..	3	20
Store Keeper	..	1	30- 45
Draftsmen	..	1	45- 75
Overseers	..	2	80-100
Supervisors	..	4	125-225
Clerks	..	4	30- 45
Peons	..	4	20
25. Temporary staff under Water Works and Drainage Division, Trivandrum—			
Senior Accountant	..	1	80-120
Clerk	..	1	30- 45
Leave Reserve clerk	..	1	30- 45
Draftsmen	..	3	45- 75
Tracers	..	3	30- 45
26. Willingdon Water Works Sub-Division Office, Trivandrum—			
Bill Collectors	..	6	30- 45
Clerks	..	2	30- 45
Peon	..	1	20
Supervisor	..	1	125-225
27. Drainage Maintenance Sub-Division, Trivandrum and Nagercoil			
Water Works—			
Clerk	..	1	45- 75
Clerk	..	1	30- 45
Assistant Shift Operators	..	2	45- 75
Supervisors	..	2	125-225

			Rs.
28.	<i>Nagercoil Water Works—</i>		
	Operator	.. 1	45- 75
	Cleaner	.. 1	20
	Lascars	.. 2	20
29.	<i>Water Works and Drainage Division, Ernakulam—</i>		
	Executive Engineer	.. 1	450-750
	Divisional Accountant	.. 1	130-355
	Head Clerk	.. 1	80-120
	Senior Accountant	.. 1	80-120
	Account Clerks	.. 3	45- 75
	Account Clerks	.. 4	30- 45
	Typist	.. 2	30-120
	Store Keeper	.. 1	45- 75
	Peons	.. 4	20
	Draftsman	.. 1	80-100
	Draftsman	.. 1	45- 75
	Tracer	.. 1	30- 45
30.	<i>Alleppey Water Works—</i>		
	Turn-cocks	.. 2	25- 30
31.	<i>Ernakulam and Chowwara Water Works Sub-Division—</i>		
	Clerk	.. 1	45- 75
	Clerks	.. 2	30- 45
	Senior Driver	.. 1	80-100
	Mechanic	.. 1	80-100
	Driver	.. 1	45- 75
	Operator	.. 1	45- 75
	Lineman	.. 1	25
	Cleaners	.. 3	20
	Watchman	.. 1	20
	Supervisors	.. 2	125-225
32.	<i>Temporary Staff for University Sub-Division, Trivandrum—</i>		
	Clerk	.. 1	45- 75
	Clerks	.. 2	30- 45
	Peon	.. 1	20
	Supervisors	.. 3	125-225
	Draftsman	.. 1	45- 75
33.	<i>Temporary Staff for V. R. D. Sub-Division—</i>		
	Clerks	.. 4	30- 45
	Tracers	.. 8	30- 45
34.	<i>Temporary Staff for Land Acquisition for V. R. D. Works—</i>		
	Special Land Acquisition Officers	.. 2	175-225
	Revenue Supervisors	.. 3	45- 75
	Revenue Accountants	.. 8	25- 30
	Peons	.. 4	20
	Head Clerks	.. 2	45- 75
	Clerks	.. 2	30- 45
	Field Peons	.. 4	20

			Rs.
35.	<i>Temporary Staff for Mechanical Engineering Sub-Divisions at Alwaye and Trivandrum.</i>		
	Assistant Engineers	.. 2	225-325
	Supervisors	.. 4	125-225
	Overseers	.. 4	80-100
	Draftsmen	.. 2	45- 75
	Head Clerks	.. 2	45- 75
	Clerks	.. 6	30- 45
	Typists	.. 2	30-120
	Peons	.. 6	20
36.	<i>Temporary Staff for Medical College, Special Sub-Division.</i>		
	Assistant Engineer	.. 1	225-325
	Divisional Accountant	.. 1	130-355
	Head Clerk	.. 1	45- 75
	Clerks	.. 3	45- 75
	Clerks	.. 5	30- 45
	Typist	.. 1	30-120
	Supervisors	.. 4	125-225
	Head Draftsman	.. 1	125-225
	Draftsmen	.. 2	45- 75
	Store Keeper	.. 1	45- 75
	Peons	.. 5	20
37.	<i>Temporary Staff for Bridge Works, Special Sub-Division.</i>		
	Special Officer for Bridges	.. 1	500
	Divisional Accountant	.. 1	130-355
	Head Clerk	.. 1	80-120
	Clerk	.. 1	45- 75
	Clerks	.. 3	30- 45
	Typist	.. 1	30-120
	Peons	.. 6	20
	Supervisors	.. 4	125-225
	Overseer	.. 1	80-100
	Overseers	.. 3	45- 75
	Store Keepers	.. 2	30- 45
	Clerk	.. 1	30- 45
	Peon	.. 1	20
38.	<i>Temporary Staff for Operation of Dredgers.</i>		
	Dredger Superintendent	.. 1	225-325
	Captains	.. 9	125-175
	Head Clerk	.. 1	45- 75
	Clerks	.. 2	30- 45
	Typist	.. 1	30-120
	Peons	.. 3	20
	Draftsman	.. 1	45- 75
	Dredger Master	.. 1	125-175
	Foreman	.. 1	100-125
	Driver	.. 1	45- 75
	Syrang	.. 1	30- 45
	Greaser	.. 1	25
	Lascars	.. 4	20

			Rs.
39. Temporary Staff for Leper Colony, Noornad.			
Overseer	..	1	45- 75
40. Temporary Staff for Sanitary Installation and Sewage Section.			
Supervisor	..	1	125-225
Clerk	..	1	30- 45
Peon	..	1	20
41. Temporary Staff for the construction of the road between Devicolam and Peermade.			
Supervisors	..	2	125-225
Draftsman	..	1	45- 75
Clerk	..	1	45- 75
Clerk	..	1	30- 45
Peon	..	1	20
42. Temporary Staff for Anti Sea Erosion Measures in Coastal Area.			
Assistant Engineer	..	1	225-325
Supervisors	..	2	125-225
Overseers	..	2	80-100
Clerk	..	1	45- 75
Clerks	..	3	30- 45
Typist	..	1	30-120
Draftsman	..	1	45- 75
Peons	..	3	20
43. Temporary Staff for Soil Research Laboratory.			
Laboratory Assistant	..	1	45- 75
Attenders	..	2	20
44. Temporary staff for Stock Verification Special Sub Division			
Assistant Engineer	..	1	225-325
Divisional Accountant	..	1	130-355
Accountants	..	2	80-120
Clerks	..	3	40- 75
Overseer	..	1	80-100
Typist	..	1	30-120
Peons	..	3	20
45. Temporary staff for the Construction of Periyar Bridge			
Assistant Engineer	..	1	225-325
Supervisor	..	1	125-225
Overseer	..	1	80-100
Clerk	..	1	45- 75
Clerks	..	2	30- 45
Typist	..	1	30-120
Peons	..	3	20
46. Temporary staff for investigation of Reclamation of Marshy lands in Alleppey Town			
Supervisor	..	1	125-225
Overseer	..	1	45- 75
Clerk	..	1	30- 45
Peon	..	1	20

			Rs.
Revenue Supervisor	..	1	45- 75
Chainmen	..	2	20
Revenue Accountant	..	1	25- 30
47. Temporary staff for Construction of Gandhi Ghat at Cape			
Supervisor	..	1	125-225
Clerk	..	1	30- 45
Peon	..	1	20
48. Temporary staff for Widening and Improving National Highways			
Assistant Engineer	..	1	225-325
Supervisors	..	2	125-225
Overseers	..	4	80-100
Draftsmen	..	2	80-100
Tracer	..	1	30- 45
Clerk	..	1	45- 75
Clerk	..	1	30- 45
Typist	..	1	30-120
Peons	..	3	20
49. Temporary staff for Ithipuzha Bridge Section			
Supervisor	..	1	125-225
Clerk	..	1	30- 45
Peon	..	1	20
50. Staff for investigation of 2nd Five Year Plan, Chief Engineer's Office			
Deputy Chief Engineer	..	1	450-750
Assistant Engineers	..	2	225-325
Head Draftsmen	..	2	125-225
Draftsmen	..	8	80-100
Tracers	..	6	30- 45
Superintendent	..	1	125-150
Clerks	..	2	80-120
Clerks	..	2	45- 75
Typists	..	1	30-120
Peons	..	4	20
51. iii. Executive			
Executive Engineers	..	2	450-750
Assistant Engineers	..	8	225-325
Supervisors	..	32	125-225
Overseers	..	32	80-100
Overseers	..	32	45- 75
Tracers	..	4	30- 45
Managers	..	2	125-150
Clerks	..	2	80-100
Clerks	..	12	45- 75
Clerks	..	12	30- 45
Typists	..	10	30-120
Peons	..	48	20

		Rs.
52. 68. Construction of Irrigation, Navigation. A. Irrigation works-		
1. Productive (b) Establishment		
(a) Irrigation Works-1. Productive		
(b) Establishment-1. Peechi Scheme		
Project Executive Engineer ..	1	450-750
Assistant Engineers ..	2	225-325
Mechanical Assistant Engineer ..	1	225-325
Personal Assistant to the Project Engineer ..	1	225-325
Medical Officer ..	1	100-250
Special Land Acquisition Officer ..	1	200-300
Supervisors ..	14	125-225
Work Superintendents ..	20	45- 75
Field Peons ..	38	20
Cycle Orderly ..	1	20
Watchmen ..	3	20
Head Clerk ..	1	80-120
Clerks ..	4	45- 75
Clerks ..	2	30- 45
Draftsmen ..	4	80-100
Assistant Draftsmen ..	1	45- 75
Tracer ..	1	30- 45
Copyist ..	1	30- 45
Blue Printer ..	1	30- 45
Store Keeper ..	1	80-100
Deffadar ..	1	25
Peons ..	28	20
Watchman ..	1	20
Cycle Orderly ..	1	20
Compounder ..	1	50
Nurse ..	1	40- 80
Attenders ..	2	20
Sweeper ..	1	20
Machanic ..	1	60-100
Auditors ..	2	80-120
53. L. A. Field and office staff.		
Revenue Inspectors ..	5	80-100
Surveyors ..	16	25- 40
Chainmen ..	32	20
Clerks ..	2	45- 75
Clerks ..	2	30- 45
Typists ..	2	30-120
Peons ..	7	20
Gardener ..	1	20
54. Staff for the preparation of Ayacut lists.		
Supervisors ..	2	125-225
Revenue Inspectors ..	2	80-120
Revenue Surveyors ..	8	25- 30
Clerk ..	1	45- 75
Typist ..	1	30-120

		Rs.
Work Superintendents ..	3	30- 45
Chainmen ..	16	20
Peons ..	5	20
55. Staff for Survey and Records Office.		
Draftsmen ..	2	45- 75
56. Chalakudy River Diversion Scheme.		
Resident Engineer ..	1	450-750
Assistant Engineer ..	1	225-325
57. Temporary staff for Chalakudy Irrigation Sub-Division.		
Clerk ..	1	30- 45
58. Temporary staff for the Resident Engineer.		
Supervisors ..	6	125-225
Work Superintendents ..	6	45- 75
Watchman ..	1	20
Clerks ..	8	45- 75
Clerks ..	4	30- 45
Typist ..	1	30-120
Draftsmen ..	3	80-100
Draftsmen ..	1	45- 75
Store Keeper ..	1	45- 75
Peons ..	24	20
Blue Printer ..	1	30- 45
59. Mechanical staff.		
Steam Roller Driver ..	1	45- 75
60. Medical staff.		
Compounder ..	1	30- 60
61. Manjapra Scheme.		
Supervisors ..	2	125-225
Draftsman ..	1	80-100
Peons ..	2	20
Maistries ..	4	45- 75
62. Staff for preparation of Ayacut lists.		
Supervisors ..	2	125-225
Revenue Inspectors ..	2	80-120
Revenue Surveyors ..	8	25- 30
Work Superintendents ..	3	30- 45
Chainmen ..	16	20
Peons ..	4	20
63. Staff for Land Acquisition.		
Revenue Inspectors ..	3	80-120
Surveyors ..	5	30- 75
Surveyors ..	4	25- 40
Chainmen ..	18	20
Clerk ..	1	30- 75
Typist ..	1	30-120
Peons ..	3	20

81—Capital account

			Rs.
64.	<i>Ports and Pilotage (Construction of Valiathurai Pier).</i>		
	Supervisors	.. 2	125-225
	Overseers	.. 3	80-100
	Draftsmen	.. 3	45- 75
	Clerks	.. 2	30- 45
	Peons	.. 2	20
65.	<i>Reorganisation of the P.W.D. Workshops.</i>		
	Assistant Engineer	.. 1	225-325
	Supervisor	.. 1	125-225
	Head Clerk	.. 1	45- 75
	Clerks	.. 3	30- 45
	Typist	.. 1	30-120
	Store Keeper	.. 1	80-120
	Draftsman	.. 1	45- 75
	Peons	.. 3	20
66.	<i>Miscellaneous.</i>		
	Draftsman	.. 1	45- 75
	Tracer	.. 1	30- 45
	Peons	.. 3	20
67.	<i>Water Supply in the Fishing Villages of Neendakara.</i>		
	Supervisor	.. 1	125-225
	Overseers	.. 2	45- 75
	Clerk	.. 1	30- 45
	Peon	.. 1	20
68.	<i>Ernakulam and Chowwara Water Supply Scheme.</i>		
	Draftsman	.. 1	80-100
	Draftsman	.. 1	45- 75
	Tracer	.. 1	30- 45
69.	<i>Investigation of the Water supply to the villages of South Travancore.</i>		
	Supervisor	.. 1	125-225
	Overseer	.. 1	45- 75
	Clerk	.. 1	30- 45
	Peon	.. 1	20
70.	<i>Town Planning Scheme.</i>		
	Supervisor	.. 1	125-225
	Clerks	.. 2	30- 45
	Typist	.. 1	30-120
	Draftsman	.. 1	45- 75
	Peons	.. 3	20
	Overseer	.. 1	80-100
	Sub-Overseer	.. 2	45- 75
	Draftsman	.. 1	80-100

50. Civil Works—Establishment

			Rs.
71.	<i>Temporary staff for T.B. Sanatorium, Trichur.</i>		
	Supervisor	.. 1	125-225
	Draftsman	.. 1	45- 75
	Clerk	.. 1	30- 45
	Peon	.. 1	20
81. Capital Account of Civil Works outside the Revenue Account—			
A. Original Works—Establishment (a) Buildings—General Administration.			
72.	<i>Secretariat Building Sub-division.</i>		
	Supervisor	.. 1	125-225
	Draftsman	.. 1	45- 75
50. Civil Works (e) Establishment (iii) Executive (2) Other Executive			
Establishment—			
73.	<i>Additional staff for Special Officer for Bridges, Northern Circle.</i>		
	Special Officer for Bridges	.. 1	450-750
	Divisional Accountant	.. 1	130-355
	Head Clerk	.. 1	80-120
	Clerk	.. 1	45- 75
	Clerks	.. 3	30- 45
	Store-keeper	.. 1	30- 45
	Typist	.. 1	30-120
	Peons	.. 4	20
	Supervisors	.. 3	125-225
	Clerks	.. 3	30- 45
	Peons	.. 3	20
ERNAKULAM DRAINAGE SCHEME			
74.	<i>Sub division Office.</i>		
	Assistant Engineer	.. 1	225-325
	Head Clerk	.. 1	45- 75
	Clerks	.. 2	30- 45
	Typist	.. 1	30-120
	Overseers	.. 2	80-100
	Overseers	.. 2	45- 75
	Peons	.. 3	20
75.	<i>Section Office.</i>		
	Supervisors	.. 2	125-225
	Clerks	.. 2	30- 45
	Peons	.. 2	20
76.	<i>Additional Sub division for Water Works and Drainage Division, Trivandrum for execution of Drainage Scheme.</i>		
	Assistant Engineer	.. 1	225-325
	Supervisors	.. 3	125-225
	Head Clerk	.. 1	45- 75
	Clerks	.. 3	30- 45
	Typist	.. 1	30-120
	Peons	.. 6	20

			Rs.
77.	<i>Staff for closing of arrears in Government Engineering Workshops.</i>		
	Divisional Accountant	.. 1	130-355
	Clerks	.. 3	45- 75
	Clerks	.. 3	30- 45
	Peon	.. 1	20
78.	<i>Additional staff for Chief Engineer's Office, Architectural Section.</i>		
	Architect	.. 1	450-750
79.	<i>Finance Assistant.</i>		
	Finance Assistant	.. 1	275-325
80.	<i>Additional staff for Land Acquisition Office, V.R.D. Scheme, Southern Circle.</i>		
	Deputy Tahsildar	.. 1	80-120
	Revenue Accountants	.. 2	25- 30
	Typist	.. 1	30-120
68.	<i>Construction of Irrigation, Navigation, etc.</i>		
81.	<i>Labour Welfare Officer, Government Engineering Workshops.</i>		
	Labour Welfare Officer	.. 1	75-150

Details of temporary staff sanctioned during 1955-56 other than those included in the G.P. 816/55/PWC., dated 5th May 1955

82.	<i>Kumbazha Bridge Construction Sub-division.</i>		
	(G.P. PWA. 1-3916/55/PWC., dated 25th May 1955).		
	Assistant Engineer	.. 1	225-325
	Supervisors	.. 2	125-225
	Clerks	.. 5	30- 75
	Typist	.. 1	30-120
	Overseers	.. 2	80-100
	Draftsman	.. 1	80-100
	Peons	.. 5	20
83.	<i>Superintending Engineer's Office, Water Supply Schemes.</i>		
	(PWA. 1-2978/55/PWC., dated 28th May 1955).		
	Superintending Engineer	.. 1	700-900
	Personal Assistant	.. 1	250-450
	Superintendent	.. 1	200-300
	Clerks (Upper Division)	.. 3	80-150
	Clerks (Lower Division)	.. 6	40-120
	Typists (Lower Division)	.. 2	40-120
	Head Draftsman	.. 1	125-225
	Draftsmen	.. 5	80-150
	Assistant Draftsmen	.. 5	40-120
	Tracers	.. 4	35- 80
	Blue Printer	.. 1	30- 60
	Peons	.. 5	25 30

			Rs.
84.	<i>Trichur Water Supply Scheme.</i>		
	(G.P. PWA. 1-2978/55/PWC., dated 6th April 1955).		
	Executive Engineer	.. 1	450-750
	Divisional Accountant	.. 1	130-355
	Manager	.. 1	125-150
	Head Clerk	.. 1	80-150
	Senior Accountant	.. 1	80-150
	Clerks	.. 6	45- 75
	Clerks	.. 4	30- 45
	Store-keeper	.. 1	80-120
	Assistant Store Keeper	.. 1	45- 75
	Typists	.. 2	30-120
	Head Draftsman	.. 1	125-225
	Draftsmen	.. 4	80-100
	Draftsmen	.. 4	45- 75
	Tracers	.. 2	30- 45
	Peons	.. 6	20
85.	<i>Sub-division Offices.</i>		
	Assistant Engineer	.. 1	225-325
	Head Clerk	.. 1	45- 75
	Clerks	.. 2	30- 45
	Typist	.. 1	30-120
	Overseers	.. 2	80-150
	Overseers	.. 2	45- 75
	Peons	.. 3	20
86.	<i>Section Offices.</i>		
	Supervisors	.. 3	125-225
	Clerks	.. 3	30- 45
	Peons	.. 3	20
87.	<i>Land Acquisition Staff for Neyyar Irrigation Project.</i>		
	(PWA. 1-5356/55/PWC., dated 22nd July 1955).		
	Valuation Assistant	.. 1	125-200
	Clerk	.. 1	40-120
	Chainmen	.. 4	25- 35
	Peon	.. 1	25- 35
	Revenue Supervisor	.. 1	70-150
88.	<i>Additional Staff for Medical College Sub-division.</i>		
	(G.P. D. Dis. 4896/55/PWC., dated 5th August 1955).		
	Supervisors	.. 2	125-225
	Clerks	.. 2	40-120
	Peons	.. 2	25- 30
89.	<i>Town Planning Sub-division, Ernakulam.</i>		
	(PWA. 1-3706/55/PWC., dated 24th August 1955).		
	Sub-division Officer	.. 1	250-450
	Supervisors	.. 2	125-225
	Draftsmen	.. 2	80-150
	Overseers	.. 2	80-150

			Rs.
Overseers	..	2	40-120
Clerks	..	2	40-120
Typist	..	1	40-120
Peons	..	2	25- 30
90. Closing the Accounts of the defunct Mechanical Sub-division. (D. Dis. 10871/55/PWC., dated 9th November 1955).			
Divisional Accountant	..	1	130-355
Upper Division Clerk	..	1	80-150
Lower Division Clerks	..	2	40-120
91. Office of the Executive Engineer, Vazhani Dam Works.			
Executive Engineer	..	1	500-800
Head Draftsman	..	1	125-225
Supervisor	..	1	125-225
Overseer	..	1	80-150
Overseer	..	3	40-120
Tracer	..	1	30- 60
Clerk (Upper Division)	..	1	80-150
Clerks (Lower Division)	..	2	40-120
Typist	..	1	40-120
Peons	..	4	25- 30
92. Construction of Ambalapuzha-Edathua Road. (D. Dis. 11503/55/PWC., dated 20th November 1955).			
Supervisors	..	2	125-225
Overseer	..	1	80-150
Overseer	..	1	40-120
Clerks	..	2	40-120
Peons	..	2	25- 30
93. Additional staff for Kuttanad Development Scheme.			
Manager	..	1	125-200
Accountant	..	1	40-120
Clerk	..	1	40-120
Draftsman	..	1	40-120
94. Additional staff for the Office of the Superintending Engineer, Irrigation Project, Trichur.			
Accountants	..	4	80-150
Accountants	..	5	40-120
Head Draftsmen	..	2	125-225
Draftsmen	..	6	80-150
Draftsmen	..	3	40-120
Tracer	..	1	30- 60
Typist	..	1	40-120
95. Construction of Erattupettah Road Construction Works. (D. Dis. 12673/55/PWC., dated 25th November 1955).			
Assistant Engineer	..	1	250-450
Supervisors	..	2	150-250
Overseer	..	1	80-150

			Rs.
Overseer	..	1	40-120
Draftsman	..	1	40-120
Upper Division Clerk	..	1	80-150
Lower Division Clerk	..	1	40-120
Peons	..	4	25- 35
96. Construction of Agricultural College Sub-division, Trivandrum. (A.4-8097/55/Fd.D, dated 2nd January 1956)			
Assistant Engineer	..	1	250-450
Supervisors	..	2	150-250
Divisional Accountant	..	1	130-355
Upper Division Clerk	..	1	80-150
Lower Division Clerk	..	4	40-120
Lower Division Typist	..	1	40-120
Draftsmen	..	2	40-120
Peons	..	4	25- 35
97. Construction of Veterinary College Buildings, Trichur.			
Assistant Engineer	..	1	250-450
Supervisors	..	2	150-250
Divisional Accountant	..	1	130-355
Upper Division Clerk	..	1	80-150
Lower Division Clerks	..	4	40-120
Lower Division Typist	..	1	40-120
Draftsman	..	2	40-120
Store-keeper	..	1	40-120
Peons	..	4	25- 35
98. Temporary Staff for the clearance of outstanding objections in the P. W. Divisions—Special squad. (P.W.A. 1-9179/55/PWC, dated..... ..September 1955)			
Executive Engineer	..	1	500-800
S.A.S. Accountant	..	1	..
Divisional Accountant	..	1	130-355
Upper Division Clerk	..	1	80-150
Lower Division Clerks	..	3	40-120
Typist	..	1	40-120
Peons	..	3	25- 35

STATEMENT No. I

Statement of Receipts under Revenue during 1955-56.

Detailed Account Heads	Actuals Rs.
<i>XVII. Irrigation, Navigation, Embankment and Drainage Works for which Capital Accounts are kept.</i>	
A. IRRIGATION WORKS	
(1) Productive Works	
<i>Gross Receipts</i>	
(a) Other Canal produce ..	84
(b) Recoveries of expenditure ..	372
(c) Owner's rate— Water cess ..	2,05,698
(d) Miscellaneous— Other items ..	1,619
Gross Total ..	2,07,773
Deduct Refunds ..	(—) 875
Net Total ..	2,06,898
Deduct Working Expenses ..	(—) 5,84,794
Net Receipts under XVII ..	(—) 3,77,896
<i>XVIII. Irrigation, Navigation, Embankment and Drainage Works for which no Capital Accounts are kept.</i>	
A. IRRIGATION WORKS	
(a) Rents ..	2,923
(b) Miscellaneous— (i) Periyar lease ..	52,965
(ii) Hire charges of Tools and Plant ..	1,44,864
(iii) Miscellaneous ..	85,234
(c) Direct receipts— Water cess ..	20,125
(d) Recoveries of expenditure— Indirect Receipts—Betterment levy ..	1,210
Total of A ..	2,97,321
B. NAVIGATION, EMBANKMENT AND DRAINAGE WORKS	
<i>Direct Receipts—</i>	
(a) Navigation Receipt ..	3,29,325
Gross Total A and B ..	6,26,646
Deduct Refunds relating to A ..	(—) 109
Net Total of XVIII ..	6,26,537

XXXIX. Civil Works.

	Rs.
(a) Rents ..	2,17,388
(b) Receipts from Workshops ..	10
(c) Recoveries of expenditure ..	5,106
(d) Transfer from Central Road Funds ..	..
(e) Receipts from Water Works and Drainage Schemes ..	7,16,856
(f) Miscellaneous— (i) Sales of avenue trees ..	3,33,944
(ii) Special tolls ..	37,917
(iii) Other items ..	13,95,393
Grant-in-aid from Government of India for Construction of roads of economic or inter-State importance ..	11,53,134
Gross Total ..	38,59,748
Deduct Refunds .. (—)	35,302
Net total of XXXIX ..	38,24,446

STATEMENT No. II

Statement of Expenditure under various heads during 1955-56

Head of Account	Expenditure Rs.
<i>XVII—Irrigation, Navigation, Embankment and Drainage Works for which Capital Accounts are kept.</i>	
A. Irrigation Works	
I. PRODUCTIVE WORKS	
<i>Working Expenses</i>	
(i) Extension and Improvements ..	3,81,685
(ii) Maintenance and repairs ..	1,68,183
(iii) Establishment ..	24,926
(iv) Tools and Plant ..	10,000
(v) Suspense ..	..
Total of XVII ..	5,84,794
18. Other Revenue Expenditure financed from Ordinary Revenue.	
A. Irrigation Works	
2. Miscellaneous Expenditure	
(i) Establishment ..	16,070
(ii) Tools and Plant ..	..
(iii) Other charges ..	16,348

	Rs.
(iv) Suspense ..	..
(v) Development schemes ..	..
(a) Schemes included in the Five Year Plan	
(i) Works ..	53,82,597
(ii) Establishment ..	5,77,414
(iii) Tools and Plant ..	1,78,221
(iv) Suspense ..	92,151
(b) Other Development Schemes—	
Works ..	7,20,366
Maintenance and Repairs ..	8,89,619
Establishment ..	70,000
Tools and Plant ..	..
Total of 18 A. ..	79,42,786

B. Navigation, Embankment and Drainage Works

(2) Miscellaneous Expenditure

(i) Establishment ..	83,196
Grand Total of 18 A and B ..	80,25,982

50. Civil Works.

(a) Original Works—Buildings

(i) Taxes on Income ..	9,800
(ii) Land Revenue ..	78,528
(iii) State Excise ..	22,094
(iv) Stamps ..	..
(v) Forest ..	..
(vi) Registration ..	71,917
(vii) General Administration ..	1,22,848
(viii) Administration of Justice ..	3,79,100
(ix) Jails and Convict Settlement ..	94,427
(x) Police ..	7,81,806
(xi) Ports and Pilotage ..	838
(xii) Scientific Departments ..	37,973
(xiii) Education ..	9,37,972
(xiv) Medical ..	6,70,029
(xv) Public Health ..	34,801
(xvi) Agriculture ..	11,131
(xvii) Veterinary ..	51,569
(xviii) Corporation ..	2,349
(xix) Industries ..	11,500
(xx) Civil Works ..	5,24,497
(xxi) Stationery and Printing ..	56,841
(xxii) Miscellaneous Departments ..	20,803
Total of (a) Buildings ..	39,20,823

	Rs.
(b) Original Works—Communications—	
(i) Roads ..	38,93,920
(ii) Ferries and Canals ..	1,34,764
(iii) Bridges and Culverts ..	10,43,608
(iv) Miscellaneous ..	17,888
(v) Roads of Economic or inter-State importance ..	19,09,143
Total ..	69,99,323
Deduct (i) Amount recoverable from Government of India ..	91,944
Net total of (b) Communications ..	69,07,379
(c) Original Works—Miscellaneous—	
(i) Miscellaneous Public Improvements ..	2,28,117
(ii) Water works including maintenance ..	15,738
(iii) Improvements to the City of Trivandrum ..	19,011
Total of (c) Miscellaneous ..	2,62,866
(d) Repairs—	
Buildings ..	8,42,115
Communications ..	55,05,365
Miscellaneous ..	12,07,613
Total of (d) Repairs ..	75,55,093
(e) Establishment—	
(i) Direction ..	3,32,683
(ii) Superintendence ..	1,67,222
(iii) G.E. Workshop ..	5,68,016
(iv) Executive ..	21,78,292
(v) Electrical Installation to Government Buildings ..	7,500
(a) Superintendence—	
(vi) Advisory Board ..	7,999
	33,29,212
Deduct amount debitable to Development Schemes .. (—)	11,02,726
Net total of (e) Establishment ..	22,26,486
(f) Tools and Plant ..	9,76,228
(g) Grants-in-aid ..	80,431
(h) Suspense ..	3,75,996
Grand total of Non-Development Schemes ..	2,23,05,302

	Rs.
(i) Development Schemes—	
(1) Works—	
(i) Buildings ..	21,87,425
(ii) Communications ..	93,74,895
(iii) Miscellaneous ..	2,28,161
Total of (1) Works ..	1,17,90,482
(2) Establishment ..	11,02,726
(3) Tools and Plant ..	775
(4) Suspense ..	..
Total of (i) Development Schemes ..	1,28,93,983
Grand total of 50 Civil Works ..	3,51,99,285
68. Construction of Irrigation, Navigation, Embankment and Drainage Works	
A. Irrigation Works—	
(1) Productive—	
(a) Works—	
(i) Peechi ..	19,10,567
(ii) Chalakudi ..	18,43,580
(iii) Perinchani ..	(+) 1,42,958
Total of (a) Works ..	38,97,105
(b) Establishment—	
(i) Peechi ..	2,96,017
(ii) Chalakudi ..	1,66,050
(iii) Perinchani ..	..
Total of (b) Establishment ..	4,62,067
(c) Tools and Plant—	
(i) Peechi ..	830
(ii) Chalakudy ..	(-) 14,624
(iii) Perinchani ..	..
Total of (c) Tools and Plant ..	(-) 13,794
(d) Suspense ..	(-) 87,540
Gross total of 68 A. ..	42,57,838
Deduct Receipts and Recoveries ..	(-) 4,34,184
Net total of 68 A. ..	38,23,654

81. Capital Account of Civil Works outside the Revenue Account

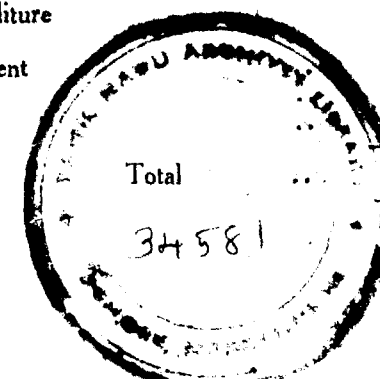
Rs.

Original works—	
(a) Buildings ..	9,89,524
(b) Communications ..	3,55,615
(c) Miscellaneous ..	1,71,340
(d) Establishment ..	20,942
(e) Tools and Plant ..	..
(f) Suspense ..	(-) 98,427
Total of Non-Development Schemes ..	14,38,994
Deduct Receipts and Recoveries ..	(-) 7,244
Net total ..	14,31,750
(g) Development Schemes (Five Year Plan)	
1. Works ..	30,02,137
2. Establishment ..	2,02,883
3. Tools and Plant ..	..
Total of (g) Development Schemes ..	32,05,020
Grand total of 81 ..	46,36,770

STATEMENT No. III

Statement showing Details of Outly under Establishment for 1955-56

Head of Account	Expenditure
XVII. Irrigation, Navigation, Embankment and Drainage Works for which Capital Accounts are kept	Rs.
A. Irrigation Works—	
(i) Productive works ..	24,926
(iii) Establishment ..	..
18. Other Revenue Expenditure financed from Ordinary Revenues	
A. Irrigation Works	
(2) Miscellaneous Expenditure	
(i) Establishment—	
Pay of Establishment ..	10,365
Allowances ..	5,705
Contingencies ..	..
Total ..	16,070



(v) Development Schemes	Rs.	
(a) Schemes included in the Five Year Plan		
(ii) Establishment—		
Pay of Officers	..	97,914
Pay of Establishment	..	2,79,770
Allowances	..	2,33,779
Contingencies	..	32,950
Total	..	6,44,413
Add share debit of establishment from 50 Civil works		3,000
Deduct share of establishment debitable to other Development Schemes	..	(—) 70,000
Net total of (v) (a) (ii) Establishment	..	5,77,413
(b) Other Development Schemes		
Establishment	..	70,000
B. Navigation, Embankment and Drainage Works		
(2) Miscellaneous Expenditure		
(i) Establishment—		
Pay of Establishment	..	49,939
Allowances	..	31,465
Contingencies	..	1,792
Total of B	..	83,196
Grand total of 18 Establishment	..	7,46,679
50 Civil Works		
(e) Establishment		
(i) Direction—		
Pay of Officers	..	72,776
Pay of Establishment	..	1,30,046
Allowances	..	92,595
Contingencies	..	33,766
Contribution to Central Board of Irrigation	..	7,500
Contribution to Indian Roads Congress	..	2,000
Total	..	3,38,683
Deduct share debitable to XVII and 18 Irrigation Works at Rs. 3,000 for each Major head	..	(—) 6,000
Net total of (e) (i) Direction	..	3,32,683
(ii) Superintendence—		
Pay of Officers	..	39,535
Pay of Establishment	..	63,315
Allowances	..	54,455
Contingencies	..	11,843
Total	..	1,69,148

	Rs.	
Deduct share debitable to XVII Irrigation, etc.	..	(—) 1,926
Net total of (e) (ii) Superintendence	..	1,67,222
(iii) Government Engineering Workshops—		
Pay of Officers	..	17,655
Pay of Establishment	..	83,506
Allowances	..	52,789
Contingencies	..	2,005
Tools and Plant	..	10,000
General Charges—		
(1) Interest charges (charged)	..	1,80,800
(2) Depreciation Reserve Fund	..	2,21,261
Total of (iii) Government Engineering Workshops	..	5,68,016
(iv) Executive Establishment—		
Pay of Officers	..	3,24,871
Pay of Establishment	..	12,48,473
Allowances	..	9,16,925
Contingencies	..	1,00,901
Total	..	25,91,170
Deduct—		
(1) Share debitable to XVII—Irrigation, etc.	..	(—) 20,000
(2) Percentage recoveries	..	(—) 2,32,828
(3) Amount debitable to "81 Capital Account"	..	(—) 1,60,000
Net total of (e) (iv) Executive Establishment	..	21,78,342
(v) Electrical Installation to Government Buildings		
Add share debit from XLI—Electricity	..	75,000
(vi) Advisory Board	..	7,999
Gross total of (e) Establishment	..	33,29,272
Deduct share amount debitable to Development Schemes	..	(—) 11,02,726
Net total of (e) Establishment	..	22,26,546
(i) Development Schemes—		
(2) Establishment	..	11,02,726
Grand total of Establishment	..	33,29,272

68. Construction of Irrigation, Navigation, Embankment and Drainage Works

A. Irrigation Works—I. Productive (Commercial)

(b) Establishment

(i) Peechi—

Pay of Officers	..	37,735
Pay of Establishment	..	1,14,795
Allowances	..	1,20,576
Contingencies	..	22,911

Total .. 2,96,017

(ii) Chalakudy—

Pay of Officers	..	22,547
Pay of Establishment	..	66,807
Allowances	..	67,779
Contingencies	..	8,917

Total .. 1,66,050

(iii) Perinchani

.. Nil

Grand total of (b) Establishment .. 4,62,067

81. Capital account of Civil Works outside Revenue Account.

(d) Establishment—(I) Buildings.—

(1) General Administration (Secretariat Buildings)

Pay of Establishment	..	1,139
Allowances	..	381
Contingencies	..	Nil

Total .. 1,520

(2) Port and Pilotage (Construction of Valiathura Pier)

Pay of Establishment	..	9,204
Allowances	..	4,188
Contingencies	..	100

Total .. 13,492

(3) Civil Works (Reorganisation of P.W. Workshops)

Pay of Officers	..	4,102
Pay of Establishment	..	6,186
Allowances	..	4,657
Contingencies	..	156

Total of (3) Civil Works .. 15,101

Grand Total of (d) I. Buildings .. 30,113

Rs.

II. Miscellaneous—

(1) Willingdon Water Works—

Pay of Establishment	..	2,347
Allowances	..	1,762
Contingencies	..	..

Total of II—(1) .. 4,109

(2) Mofussil Water Supply Schemes—

Pay of Establishment	..	10,192
Allowances	..	5,506
Contingencies	..	200

Total of II—(2) .. 15,898

(3) Town Planning Scheme—

Pay of Establishment	..	8,789
Allowances	..	4,895
Contingencies	..	21

Total of II—(3) .. 13,705

Grand total of (d) II Miscellaneous .. 33,712

Gross total of (d) Establishment .. 63,825

Deduct share debitable to (g) Development Schemes (2) Establishment .. (—) 42,883

Net total of (d) Establishment .. 20,942

(g) Development Schemes—

(2) Establishment .. 2,02,883

Grand total of Establishment .. 2,23,825

STATEMENT No. IV

Statement of Original Grant and Final Grant for the year 1955-56 under various heads

XVII. Irrigation, Navigation, Embankment and Drainage Works for which Capital Accounts are kept

Irrigation Works

1. Protective Works

Working expenses

(i) Extensions and improvements—

Original grant	..	4,95,000
Reappropriation and Surrenders	..	(—) 47,000
Final grant	..	4,48,000

	Rs.
(ii) Maintenance and Repairs—	
Original grant	.. 1,55,000
Reappropriation	.. 3,50,000
Final grant	.. 1,90,000
(iii) Establishment—	
Original grant	.. 25,000
Final grant	.. 25,000
(iv) Tools and Plant—	
Original grant	.. 10,000
Final grant	.. 10,000
(v) Suspense—	
Original grant	.. 1,000
Final grant	.. 1,000
Total—	
Original grant	.. 6,86,000
Final	.. 6,74,000

18. Other Revenue Expenditure financed from Ordinary Revenues.

1. Irrigation Works	
2. Miscellaneous expenditure	
(i) Establishment—	
Pay of establishment—	
Original grant	.. 17,200
Final grant	.. 17,200
Allowances—	
Original grant	.. 6,100
Final grant	.. 6,100
Contingencies—	
Original grant	.. 100
Final grant	.. 100
Total—	
Original grant	.. 23,400
Final grant	.. 23,400
(ii) Other charges—	
Original grant	.. 10,000
Reappropriation	.. 5,000
Final grant	.. 15,000
(iv) Suspense—	
Original grant	.. 600
Final grant	.. 600
(v) Development Schemes—	
(a) Schemes included in the Five Year Plan	
(i) Works—	
Original grant	.. 1,10,63,000
Reappropriation and Surrenders	.. (—)45,41,300
Final grant	.. 65,21,700
(ii) Establishment	
Pay of Officers—	
Original grant	.. 90,700
Reappropriation	.. 1,800
Final grant	.. 92,500

	Rs.
Pay of establishment—	
Original grant	.. 2,89,300
Reappropriation	.. 7,000
Final grant	.. 2,96,300
Allowances—	
Original grant	.. 2,24,200
Reappropriation	.. 20,000
Final grant	.. 2,44,200
Contingencies—	
Original grant	.. 29,600
Reappropriation	.. 10,000
Final grant	.. 39,600
Lump sum provision for implementation of new scales of pay—	
Original grant	.. 8,800
Reappropriation and Surrenders	.. (—)8,800
Final grant	.. Nil
Add share of Establishment charges from 150 (e) (i)—	
Direction—	
Original grant	.. 3,000
Final grant	.. 3,000
Deduct share of Establishment charges debitable to other Development Schemes—	
Original grant	.. (—)70,000
Final grant	.. (—)70,000
Total of Establishment—	
Original grant	.. 5,75,600
Final grant	.. 6,05,600
(iii) Tools and Plant—	
Original grant	.. 4,00,000
Final grant	.. 4,00,000
(iv) Suspense—	
Original grant	.. 1,00,400
Final grant	.. 1,00,400
Total of A—	
Original grant	.. 1,21,39,000
Final grant	.. 76,27,700
(b) Other Development Schemes	
(i) Works—	
Original grant	.. 5,35,000
Reappropriation	.. 2,11,300
Final grant	.. 7,46,300
(ii) Maintenance and Repairs—	
Original grant	.. 5,00,000
Reappropriation	.. 7,07,000
Final grant	.. 12,07,000
(iii) Establishment—	
Original grant	.. 70,000
Final grant	.. 70,000

	Rs.
(iv) Tools and Plant—	
Original grant	.. 20,000
Final grant	.. 20,000
Total of—	
Original grant	.. 11,25,000
Final grant	.. 20,43,300
Total of A—	
Original grant	.. 1,32,98,000
Final grant	.. 97,09,400
<i>B. Navigation, Embankment and Drainage Works</i>	
(2) Miscellaneous Expenditure—	
(1) Establishment—	
Pay of Establishment—	
Original grant	.. 87,990
Reappropriation and surrenders	.. (—) 5,100
Final grant	.. 82,500
Allowances—	
Original grant	.. 58,500
Reappropriation	.. 3,500
Final grant	.. 62,000
Contingencies—	
Original grant	.. 900
Reappropriation	.. 1,600
Final grant	.. 12,500
Total of B—	
Original grant	.. 1,47,000
Final grant	.. 1,47,000
Total of 18—	
Original grant	.. 1,34,45,000
Final grant	.. 98,56,600
<i>50. Civil Works (a) Original Works—Buildings</i>	
(i) Taxes on Income—	
Original grant	.. 15,800
Reappropriation and Surrender	.. (—) 3,000
Final grant	.. 12,800
(ii) Land Revenue—	
Original grant	.. 1,04,800
Supplementary	.. 37,600
Reappropriation and Surrenders	.. (—) 22,500
Final grant	.. 1,19,900
(iii) State Excise—	
Original grant	.. 70,100
Reappropriation and Surrenders	.. (—) 15,000
Final grant	.. 55,100
(v) Forest—	
Original grant	.. 800
Final grant	.. 800
(vi) Registration—	
Original grant	.. 1,08,000
Reappropriation and Surrender	.. (—) 7,000
Final grant	.. 1,01,000

	Rs.
(vii) General Administration—	
Original grant	.. 1,48,400
Reappropriation	.. 37,900
Final grant	.. 1,86,300
(viii) Administration of Justice—	
Original grant	.. 3,69,500
Reappropriation	.. 80,800
Final grant	.. 4,50,300
(ix) Jails and Convict settlement—	
Original grant	.. 96,400
Final grant	.. 96,400
(x) Police—	
Original grant	.. 8,47,700
Reappropriation	.. 46,200
Final grant	.. 8,93,900
(xi) Ports and Pilotage—	
Original grant	.. 3,000
Reappropriation	.. 4,000
Final grant	.. 7,000
(xii) Scientific Department—	
Original grant	.. 34,100
Reappropriation	.. 8,000
Final grant	.. 42,100
(xiii) Education—	
Original grant	.. 9,94,000
Reappropriation	.. 83,100
Final grant	.. 10,77,100
(xiv) Medical—	
Original grant	.. 5,86,100
Reappropriation	.. 26,500
Final grant	.. 6,12,600
(xv) Public Health—	
Original grant	.. 33,000
Reappropriation	.. 10,300
Final grant	.. 43,300
(xvi) Agriculture—	
Original grant	.. 15,100
Reappropriation	.. 4,500
Final grant	.. 19,600
(xvii) Veterinary—	
Original grant	.. 70,800
Reappropriation	.. 1,200
Final grant	.. 72,000
(xviii) Co-operation—	
Original grant	.. 2,500
Reappropriation	.. 2,500
Final grant	.. 2,500
(xix) Industries—	
Original grant	.. 11,500
Reappropriation	.. 4,900
Final grant	.. 16,400

(xx) Civil Works—		Rs.
Original grant	..	6,79,800
Reappropriation	..	1,03,500
Final grant	..	7,83,300
(xxi) Stationery and Printing—		
Original grant	..	1,41,800
Reappropriation and surrender	..	—73,500
Final grant	..	68,300
(xxii) Miscellaneous Department—		
Original grant	..	69,300
Final grant	..	69,300
Total of (a) Buildings—		
Original	..	44,00,000
Final	..	47,30,000
(b) Original Works—Communications.		
(i) Roads—		
Original grant	..	85,42,000
Reappropriation and surrender	..	—36,28,900
Final grant	..	49,13,100
(ii) Ferries and Canals—		
Original grant	..	2,20,800
Reappropriation	..	49,000
Final grant	..	2,69,800
(iii) Bridges and Culverts—		
Original grant	..	12,26,700
Reappropriation	..	3,42,800
Final grant	..	15,69,500
(iv) Miscellaneous—		
Original grant	..	10,500
Reappropriation	..	3,500
Final grant	..	14,000
(v) Roads of Economic or Inter-State importance—		
Original grant	..	26,66,400
Reappropriation	..	26,66,400
Final grant	..	26,66,400
Total of (b) Communications—		
Original	..	1,00,00,000
Final	..	94,32,800
(c) Original Works—Miscellaneous.		
(i) Excluding Development Works—		
Miscellaneous Public Impts.—		
Original grant	..	3,92,600
Reappropriation and surrenders	..	—24,100
Final grant	..	3,68,500
(iii). Water Works including maintenance—		
Original grant	..	21,400
Reappropriation	..	7,100
Final grant	..	28,500
(iv) Improvements to the City of Trivandrum—		
Original grant	..	36,000
Reappropriation and surrender	..	—15,100
Final grant	..	20,900

		Rs.
(v) Reserve with Chief Engineer—		
Original grant	..	50,000
Reappropriation and surrenders	..	—43,200
Final grant	..	6,800
Total of (c) Miscellaneous—		
Original grant	..	5,00,000
Final grant	..	4,24,700
(d) Repairs—		
Original grant	..	76,00,000
Reappropriation	..	5,89,700
Final grant	..	81,89,700
(e) Establishment—		
1. Direction—		
Pay of officers—		
Original grant	..	61,400
Reappropriation	..	8,100
Final grant	..	69,500
Pay of establishment—		
Original grant	..	1,18,400
Reappropriation	..	3,600
Final grant	..	1,22,000
Allowances—		
Original grant	..	78,500
Reappropriation	..	11,000
Final grant	..	89,500
Contingencies—		
Original grant	..	20,600
Reappropriation	..	15,800
Final grant	..	36,400
Lump sum provision for implementation of new scales of pay—		
Original grant	..	1,97,300
Reappropriation and surrender	..	—1,93,800
Final grant	..	3,500
Contribution to the Central Board of Irrigation—		
Original grant	..	2,500
Reappropriation	..	5,000
Final grant	..	7,500
Contribution to the Indian Road Congress—		
Original grant	..	2,000
Final grant	..	2,000
2. Superintendence—		
Pay of officers—		
Original grant	..	31,400
Reappropriation	..	11,300
Final grant	..	42,700
Pay of establishment—		
Original grant	..	70,500
Reappropriation	..	3,700
Final grant	..	74,200

	Rs.
Allowance—	
Original grant ..	45,200
Reappropriation ..	17,800
Final grant ..	63,000
Contingencies—	
Original grant ..	4,900
Reappropriation ..	8,700
Final grant ..	13,600
(iii) Government Engineering Workshops.	
Pay of officers—	
Original grant ..	14,500
Final grant ..	14,500
Pay of establishment—	
Original grant ..	88,500
Reappropriation and surrender ..	—3,500
Final grant ..	85,000
Allowances—	
Original grant ..	54,500
Reappropriation and surrender ..	—1,500
Final grant ..	53,000
Contingencies—	
Original grant ..	1,300
Reappropriation ..	1,500
Final grant ..	2,800
Tools and Plant—	
Original grant ..	10,000
Final grant ..	10,000
General charges—Charged—	
Original grant ..	2,17,400
Reappropriation and surrender ..	—36,600
Final grant ..	1,80,800
Voted—	
Original grant ..	1,00,000
Final grant ..	1,00,000
(iv) Executive Establishment.	
Pay of officers—	
Original grant ..	3,06,300
Reappropriation ..	23,900
Final grant ..	3,30,200
Pay of establishment—	
Original grant ..	13,62,000
Reappropriation ..	5,500
Final grant ..	13,67,500
Allowance—	
Original grant ..	9,79,800
Reappropriation ..	82,800
Final grant ..	10,62,600
Contingencies—	
Original grant ..	87,000
Surrender ..	12,700
Final grant ..	76,800

	Rs.
(vi) Advisory Board—	
Original grant ..	..
Reappropriation ..	18,000
Final grant ..	18,000
Deduct amount debitable to Development schemes—	
Original grant ..	—15,50,000
Final grant ..	15,50,000
Total of (c) Establishment—	
Original grant ..	23,79,000
Final grant ..	22,75,100
(f) Tools and Plant—	
Original grant ..	12,90,000
Reappropriation and surrender ..	—2,63,000
Final grant ..	10,27,000
(g) Grants-in-aid contribution, etc.—	
Original grant ..	2,00,000
Surrender ..	—59,400
Final grant ..	1,40,600
(h) Suspense—	
Original grant ..	1,50,000
Final grant ..	1,50,000
(i) Development scheme (Five Year Plan)—	
1. Works—	
(i) Buildings—	
Original grant ..	53,26,000
Reappropriation and surrender ..	—23,56,100
Final grant ..	29,69,900
(ii) Communications—	
Original grant ..	1,13,37,000
Supplementary grant ..	39,59,000
Surrender ..	—31,61,100
Final grant ..	1,21,34,900
(iii) Miscellaneous—	
Original grant ..	8,00,000
Reappropriation and surrender ..	—2,71,500
Final grant ..	5,28,500
2. Establishment—	
Original grant ..	15,50,000
Final grant ..	15,50,000
3. Tools and Plant—	
Original grant ..	5,60,000
Final grant ..	5,60,000
4. Suspense—	
Original grant ..	50,000
Final grant ..	50,000
Total of (i) Development scheme—	
Original grant ..	1,95,23,000
Final grant ..	1,77,93,300
Total of 50 Civil Works—	
Original grant ..	4,61,42,000
Final grant ..	4,41,63,200

58. Construction of Irrigation, Navigation, Embankment and Drainage Works

A. Irrigation works

1. Productive

(a) Works

(i) Peechi Scheme—

	Rs.
Original grant	.. 32,00,000
Reappropriation and surrender	.. 9,89,000
Final grant	.. 22,11,000
(ii) Chalakudi Scheme—	
Original grant	.. 20,00,000
Reappropriation	.. 4,45,000
Final grant	.. 24,45,000
(iii) Perinchani Scheme—	
Original grant	.. 1,00,000
Reappropriation	.. 31,000
Final grant	.. 1,31,000
Total of (a) Works—	
Original grant	.. 53,00,000
Final grant	.. 47,87,000

(b) Establishment

(i) Peechi Scheme—

Pay of Officers—

Original grant	.. 35,600
Reappropriation	.. 4,000
Final grant	.. 39,600

Pay of Establishment—

Original grant	.. 1,57,700
Final grant	.. 1,57,700

Allowances—

Original grant	.. 1,18,900
Reappropriation	.. 33,080
Final grant	.. 1,52,000

Contingencies—

Original grant	.. 10,700
Reappropriation	.. 11,800
Final grant	.. 22,500

Audit charges—

Original grant	.. 5,000
Reappropriation and surrender	.. 5,000
Final grant	.. Nil

Lump sum provision for implementation of new scales of pay—

Original grant	.. 8,000
Final grant	.. 8,000

Total of (i)—

Original grant	.. 3,35,900
Final grant	.. 3,80,600

(ii) Chalakudy Scheme

Pay of Officers—

Original grant	.. 21,700
Final grant	.. 21,700

Rs.

Pay of Establishment—

Original grant	.. 84,400
Final grant	.. 84,400

Allowances—

Original grant	.. 70,400
Reappropriation	.. 8,400
Final grant	.. 78,800

Contingencies—

Original grant	.. 7,000
Reappropriation	.. 5,000
Final grant	.. 12,000

Audit charges—

Original grant	.. 1,500
Reappropriation and surrender	.. 1,500
Final grant	.. Nil

Lump sum provision for implementation of new scales of pay—

Original grant	.. 5,200
Final grant	.. 5,200

Total of (ii)—

Original grant	.. 1,90,200
Final grant	.. 2,02,100

Total of (b) Establishment—

Original grant	.. 5,26,100
Final grant	.. 5,82,700

(c) Tools and Plant

(i) Peechi Scheme—

Original grant	.. 60,000
Reappropriation and surrender	.. —60,000
Final grant	.. Nil

(ii) Chalakudy Scheme—

Original grant	.. 40,000
Reappropriation and surrender	.. —40,000
Final grant	.. Nil

Total of (c)—

Original grant	.. 100,000
Final grant	.. Nil

(d) Suspense—

Original grant	.. 1,000
Final grant	.. 1,000

Total of 68—

Original grant	.. 59,27,100
Final grant	.. 53,70,700

81. Capital Account of Civil works Outside the Revenue Account.

(a) Original works—Buildings

(i) General Administration—

Original grant	.. 20,000
Reappropriation	.. 40,000
Final grant	.. 60,000

(3) Civil works—	Rs.	
Original grant	..	3,90,000
Reappropriation	..	20,000
Final grant	..	4,10,000
Total of (a)—		
Original grant	..	4,10,000
Final grant	..	4,70,000
(b) Original works—Communication—		
Original grant	..	3,50,000
Reappropriation	..	93,000
Final grant	..	4,43,000
(c) Original works—Miscellaneous—		
Original grant	..	10,50,000
Final grant	..	10,50,000
(d) Establishment—		
I. Buildings		
1. General Administration—		
Pay of Officers	..	..
Pay of Establishment—		
Original grant	..	900
Final grant	..	900
Allowances—		
Original grant	..	300
Final grant	..	300
Contingencies—		
Original grant	..	200
Final grant	..	200
2. Ports and Pilotage:		
Pay of Establishment—		
Original grant	..	11,500
Final grant	..	11,500
Allowances—		
Original grant	..	4,600
Final grant	..	4,600
Contingencies—		
Original grant	..	200
Final grant	..	200
3. Civil Works:		
Pay of Officers—		
Original grant	..	3,900
Final grant	..	3,900
Pay of Establishment—		
Original grant	..	7,400
Final grant	..	7,400
Allowances—		
Original grant	..	5,100
Final grant	..	5,100
Contingencies—		
Original grant	..	300
Final grant	..	300
II. Miscellaneous		
1. The Willingdon Water Works—		
Pay of Establishment—		
Original grant	..	1,900
Final grant	..	1,900

Allowances—	Rs.	
Original grant	..	1,600
Final grant	..	1,600
2. Mofusal Water Supply Scheme—		
Pay of Establishment—		
Original grant	..	8,500
Final grant	..	8,500
Allowances—		
Original grant	..	4,900
Final grant	..	4,900
Contingencies—		
Original grant	..	500
Final grant	..	500
3. Town Planning Scheme—		
Pay of Establishment—		
Original grant	..	7,100
Final grant	..	7,100
Allowances—		
Original grant	..	4,400
Final grant	..	4,400
Contingencies—		
Original grant	..	100
Final grant	..	100
Total of (d) Establishment (Gross)—		
Original grant	..	63,400
Final grant	..	63,400
Deduct—Share debitable to		
“(g) Development Scheme”		
Original grant	..	50,000
Final grant	..	50,000
Net total of (d) Establishment		
Original and Final grant	..	13,400
(f) Suspense		
Original grant	..	35,000
Final grant	..	35,000
(g) Development Schemes:		
(Five Year Plan)		
1. Works—		
Original grant	..	74,50,000
Supplementary grant	..	15,50,000
Reappropriation and		
surrender	..(—)	52,03,000
Final grant	..	37,97,000
2. Establishment—		
Original grant	..	2,10,000
Final grant	..	2,10,000
Total of (g)—		
Original grant	..	76,60,000
Final grant	..	40,07,000
Total of 81 Capital		
Original grant—	..	95,18,400
Final grant—	..	60,18,400

STATEMENT No. V
Statement showing Original Grant, Variations, Final Grant and Expenditure

Details	Original grant Rs.	Variations Rs.	Final grant Rs.	Expenditure Rs.
<i>XVII. Irrigation, Navigation, Embankment and Drainage works for which Capital Accounts are kept</i>				
A. Irrigation Works.—				
I. Productive Works—Working Expenses.—				
(i) Extensions and Improvements	4,95,000	(—) 47,000	4,48,000	3,81,685
(ii) Maintenance and Repairs	1,55,000	35,000	1,90,000	1,68,183
(iii) Establishment	25,000	..	25,000	24,926
(iv) Tools and Plant	10,000	..	10,000	10,000
(v) Suspense	1,000	..	1,000	..
Total	6,86,000	(—) 12,000	6,74,000	5,84,794
<i>18. Other Revenue Expenditure financed from Ordinary Revenue</i>				
A. Irrigation Works—				
(2) Miscellaneous Expenditure	23,400	..	23,400	16,070
(i) Establishment	10,000	..	10,000	..
(ii) Tools and Plant	..	5,000	..	16,348
(iii) Other charges	..	..	..	..

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STATEMENT No. V—(cont.)

Details	Original grant Rs.	Variations Rs.	Final grant Rs.	Expenditure Rs.
(iv) Suspense	600	..	600	..
(v) Development Schemes—				
(a) Schemes included in the Five Year Plan.—				
(i) Works	1,10,63,000	(—) 45,41,300	65,21,700	53,82,597
(ii) Establishment	5,75,600	30,000	6,05,600	5,77,414
(iii) Tools and Plant	4,00,000	..	4,00,000	1,78,221
(iv) Suspense	1,00,400	..	1,00,400	92,151
Total of (a)	1,21,39,000	(—) 45,11,300	76,27,700	62,30,383
(b) Other Development Schemes—				
Works	5,35,000	2,11,300	7,46,300	7,20,366
Maintenance and Repairs	5,00,000	7,07,000	12,07,000	8,89,619
Establishment	70,000	..	70,000	70,000
Tools and Plant	20,000	..	20,000	..
Total of (b)	11,25,000	9,18,300	20,43,300	16,79,985
Total of 18—A	1,32,98,000	(—) 35,88,000	97,10,000	79,42,786

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STATEMENT No. V—(cont.)

Details	Original grant Rs.	Variations Rs.	Final grant Rs.	Expenditure Rs.
B. Navigation, Embankment and Drainage Works.—				
(2) Miscellaneous Expenditure—				
(i) Establishment	1,47,000	..	1,47,000	83,196
Grand Total of 18	1,34,45,000	(—) 35,88,000	98,57,000	80,25,982
5) Civil Works—				
(a) Original Works—Buildings	44,00,000	3,30,000	47,30,000	39,20,823
(b) Do. Communications	1,00,00,000	(—) 5,67,200	94,32,800	69,07,379
(c) Do. Miscellaneous	5,00,000	(—) 75,300	4,24,700	2,62,866
(d) Repairs	76,00,000	5,89,700	81,89,700	75,55,093
(e) Establishment	23,79,000	(—) 1,03,900	22,75,100	22,26,486
(f) Tools and Plant	12,90,000	(—) 2,63,000	10,27,000	9,76,228
(g) Grants-in-aid	2,00,000	(—) 59,400	1,40,600	80,431
(h) Suspense	1,50,000	..	1,50,000	3,75,996
(i) Development Schemes	1,96,23,000	(—) 18,29,700	1,77,93,300	1,28,93,933
Total	4,61,42,000	(—) 19,78,800	4,41,63,200	3,51,99,285

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STATEMENT No. V—(cont.)

Details	Original grant Rs.	Variations Rs.	Final grant Rs.	Expenditure Rs.
68. Construction of Irrigation, Navigation, Embankment and Drainage Works (Commercial)				
A. Irrigation Works—(i) Productive				
(a) Works—				
(i) Peechi Scheme	32,00,000	(—) 9,89,000	22,11,000	19,10,567
(ii) Chalakudy Scheme	20,00,000	4,45,000	24,45,000	18,43,580
(iii) Perinchani Scheme	1,00,000	31,000	1,31,000	1,42,958
Total of (a)	53,00,000	(—) 5,13,000	47,87,000	38,97,105
(b) Establishment—				
(i) Peechi Scheme	3,35,900	44,700	3,80,600	2,96,017
(ii) Chalakudy Scheme	1,90,200	11,900	2,02,100	1,66,050
(iii) Perinchani Scheme	..	..	..	..
Total of (b)	5,26,100	56,600	5,82,700	4,62,067
(c) Tools and Plant—				
(i) Peechi Scheme	60,000	(—) 60,000	..	830
(ii) Chalakudy Scheme	40,000	(—) 40,000	..	(—) 14,624
(iii) Perinchani Scheme	..	..	..	..
Total of (c)	1,00,000	(—) 1,00,000	..	(—) 13,794
(d) Suspense—	1,000	..	(—) 1,000	(—) 87,540
Gross total	59,27,100	(—) 5,56,400	53,70,700	(—) 42,57,838
Deduct Receipts and Recoveries	..	..	..	(—) 4,34,184
Net total	59,27,100	(—) 5,56,400	53,70,700	38,23,654

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STATEMENT No. V—(cont.)

Details	Original grant Rs.	Variations Rs.	Final grant Rs.	Expenditure Rs.
1. Capital Account of Civil Works Outside the Revenue Account—				
(a) Original Works—Buildings	4,10,000	60,000	4,70,000	9,89,524
(b) Do. Communications	3,50,000	93,000	4,43,000	3,55,615
(c) Do. Miscellaneous	10,50,000	..	10,50,000	1,71,340
(d) Do. Establishment	13,400	..	13,400	20,942
(e) Tools and Plant	..	..	..	..
(f) Suspense	35,000	..	35,000	(—) 98,427
Total	18,58,400	1,53,000	20,11,400	14,38,994
Deduct Receipts and Recoveries	..	..	..	(—) 7,244
Net Total	18,58,400	1,53,000	20,11,400	14,31,750
(g) Development Schemes (Five-Year Plan)—				
1. Works	74,50,000	(—) 36,53,000	37,97,000	30,02,137
2. Establishment	2,10,000	..	2,10,000	2,02,883
Total	76,60,000	(—) 36,53,000	40,07,000	32,05,020
Deduct Receipts and Recoveries	..	..	..	..
Net total of (g) Development Schemes	76,60,000	(—) 36,53,000	40,07,000	32,05,020
Total of 81. Capital Account of Civil Works Outside the Revenue Account.	95,18,400	(—) 35,00,000	60,18,400	46,36,770

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STATEMENT No. VI

Statement showing Mileage of Communications Opened and Improved and the Total Expenditure incurred in each taluk during 1955-56

Sl. No.	Name of Taluk	No. of miles newly opened		No. of miles improved		Expenditure on works and improvements Rs.	Expenditure on repairs and maintenance Rs.	Remarks
		Miles	Furlongs	Miles	Furlongs			
1	Agasteeswaram	9	4	29	6	2,62,227	1,00,930	
2	Thovalah	0	6	10	0	49,341	74,335	
3	Kalkulam	5	2	30	6	2,16,003	1,27,536	
4	Vilavancode	3	6	19	0	1,83,238	1,04,719	
5	Neyyattinkara	..	..	48	7	3,10,546	1,88,794	
6	Trivandrum	2	3	71	7	9,23,992	4,11,548	
7	Nedumangad	3	6	32	4	3,41,147	1,50,224	
8	Cherayinkil	1	4	86	7	8,59,105	82,383	
9	Kottarakara	..	..	61	6	4,23,647	1,12,335	
10	Quilon	3	2	78	1	4,81,645	3,25,558	
11	Pathanapuram	..	..	24	0	1,45,517	99,982	
12	Shencottah	0	4	2	2	12,289	58,355	
13	Karunagappally	3	4	56	6	3,07,886	1,42,098	
14	Karthigapally	..	..	34	6	1,82,217	75,049	
15	Kunnathur	5	0	25	1	1,96,305	1,16,047	
16	Mavelikara	..	..	13	4	1,15,771	2,20,919	
17	Pathanamthitta	..	..	12	7	2,14,099	1,46,440	
18	Thiruvellah	0	7	4	7	10,07,433	3,19,992	

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STATEMENT No. VI—(cont.)

Serial No.	Name of Taluk	No. of miles newly opened		No. of miles improved		Expenditure on works and improvements	Expenditure on repairs and maintenance	Remarks
		Miles	Furlongs	Miles	Furlongs	Rs.	Rs.	
19	Ambalapuzha	..	..	16	6	7,11,535	88,918	
20	Sherthalai	6	..	3	5	64,327	83,850	
21	Changanacherry	..	..	12	3	11,66,698	2,47,665	
22	Kottayam	..	..	5	5	4,80,557	3,30,965	
23	Meenachil	..	..	6	3	7,45,819	1,48,925	
24	Vaikom	0	2	16	5	7,81,864	61,736	
25	Muvattupuzha	8	4	61	..	7,10,916	2,90,979	
26	Thodupuzha	..	..	23	..	2,29,335	91,049	
27	Devicollam	5	6	4	0	3,49,555	1,98,341	
28	Peermade	..	..	31	1	3,97,904	2,06,158	
29	Kunnathunad	1	7	3	5	4,34,073	2,81,960	
30	Parur	1	3	8	4	4,10,906	1,01,282	
31	Cochin Kanayannur	0	..	54	5	11,55,378	1,56,851	
32	Mukundapuram	..	..	2	4	8,21,208	1,73,694	
33	Cranganore	..	..	32	4	2,513	7,144	
34	Trichur	3	6	24	..	5,45,712	3,17,977	
35	Thalappilly	..	..	12	..	1,57,184	1,71,150	
36	Chittur	..	..	..	..	3,00,654	2,06,429	
Total		69	..	961	7	1,56,98,546	60,22,317	

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STATEMENT No. VII

Length of Communications maintained during 1955-56

Serial No.	Particulars	Actuals for 1954-55			Actuals for 1955-56			Sanctioned for 1955-56			Difference between actuals		
		Length in miles	Amount in Rs.	Average per mile	Length in miles	Amount in Rs.	Average per mile	Length in miles	Amount in Rs.	Average per mile	Length in miles	Amount in Rs.	
Part—I Maintained at State's cost. A. 50 Civil works													
1	Provincial Highways	858	16,19,198	1,887	841	13,89,211	1,652	841	17,06,818	2,030	(—) 17	(—) 2,29,987	
2	District Roads	2,503	21,30,263	851	2,526	20,91,299	828	2,526	19,41,726	767	23	(—) 38,964	
3	Village Roads	1,942	8,04,461	414	2,231	6,22,859	279	2,231	6,68,734	300	289	(—) 1,81,602	
4	Roads within Municipalities and towns	269	3,04,000	1,130	264	3,83,027	1,450	264	2,60,489	987	(—) 5	79,027	
5	Portions of National Highways and West coast roads within Municipalities	5	4,689	938	9	10,104	1,123	9	9,000	1,000	4	5,415	
6	Maramat roads	3	867	289	3	736	245	3	2,424	808		(—) 131	
7	Planters roads	438	1,20,815	276	53	14,739	278	53	21,320	402	(—) 385	(—) 1,06,076	
8	Traces	13	1,357	104	91	18,325	201	91	24,204	266	78	16,968	
18. Irrigation, Navigation, etc.													
9	Navigation canals and backwaters	329	1,56,086	474	445	2,37,569	534	445	2,63,888	593	116	81,483	
Part II—Maintained at Central Government cost													
10	National Highways	196	7,32,850	3,739	245	7,74,995	3,163	245	8,20,000	3,347	(—) 5	(—) 41,924	
11	West Coast Roads	54	84,069	1,557									

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STATEMENT No. VIII
Progress of opening Blocks under Kodayar Project during 1955-56

S No	Name of channel	Commanded area as per Sri Mahadeva Iyer's report				Blocks opened up to end of 1954-55				
		Wet	Dry	Poramboke	Total	No. of Blocks	Wet	Dry	Poramboke	Total
1	2	3	4	5	6	7	8	9	10	11
1	Anandanar System	5643.28	3925.39	..	9568.67	41	260.63	4691.89	392.84	5345.36
2	Pazhayar ..	6384.82	..	..	6384.82	..	..	..	..	..
3	N.P. Channel ..	6894.70	980.00	..	7874.70	8	544.91	839.90	311.23	1696.04
4	Thovala Channel	4925.60	7500.00	..	12425.60	45	2105.01	8276.34	2040.37	12421.72
5	T. Code Channel	3036.63	5824.00	3500	12360.63	37	1830.91	7095.89	749.25	9676.05
6	E.K. Kal ..	1286.44	6844.84	..	8131.28	58	1615.17	7864.95	805.47	10285.59
7	L.B.C. ..	1079.00	1161.00	..	2240.00	..	..	..	..	..
8	P.P. Channel System	4808.73	..	..	4808.73	..	..	..	..	..
	Total ..	34059.20	26235.23	3500	63794.43	189	6356.63	28768.97	4299.16	39424.76

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STATEMENT VIII—(cont.)

S No	Name of channel	Blocks opened during 1955-56				Total	Blocks opened up to 31st January 1956				
		No. of Blocks	Wet	Dry	Poramboke		No. of Blocks	Wet	Dry	Poramboke	Total
		12	13	14	15	16	17	18	19	20	21
1	Anandanar System	..	..	..	..	..	41	260.63	4691.89	392.84	5345.36
2	Pazhayar ..	..	..	..	..	..	..	..	..	..	..
3	N.P. Channel ..	..	..	..	..	..	8	544.91	839.90	311.23	1696.04
4	Thovala Channel..	..	..	..	..	..	45	2105.01	8276.34	2040.37	12421.72
5	T. Code Channel..	..	..	..	..	..	37	1830.91	7095.89	749.25	9676.05
6	E.K. Kal ..	..	..	..	..	..	58	1615.17	7864.95	805.47	10285.59
7	L.B.C. ..	..	..	..	..	..	..	..	..	..	..
8	P.P. Channel System	..	..	..	..	..	..	..	..	..	..
	Total ..	..	..	..	..	..	189	6356.63	28768.97	4299.16	39424.76

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STATEMENT No. IX

Statement showing the Length and Cost of Irrigation Channels maintained under Kothayar Project during 1955-56

Serial No.	Description	Length in miles		Expenditure exclusive of water distribution charges		Average cost per mile excluding water distribution		Assessed area for which Project water use		Average cost per acre		Remarks
		1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	
1	Left Bank Channel	10.5	10.5									
2	Exit Channel 4th mile L.B.C.	1.25	1.25	5,868	9,343	269.8	429.5	..	..	..	..	
3	Pandian Kal	3.00	3.00									
4	Aruvikkara L.B.C. and R.B.C.	7.00	7.00									
5	P. P. Channel system	45.00	45.00	9,099	10,503	202.2	233.4	..	..	..	..	
6	T. Code Channel											
7	E. K. Kal system	41.25	41.25	9,129	15,447	221.5	374.4	..	..	..	..	
8	Pazhayar	22.07	22.07	3,645	8,508	165.1	385.4	..	..	..	..	
9	Thovalah Channel	46.75	46.75	8,604	3,899	184.0	83.4	..	..	..	..	
10	Anandanar	55.5	55.5	26,365	28,972	475.0	522.0	..	..	..	..	
11	N. P. Channel	59.0	59.0	19,796	19,128	335.5	324.2	..	..	..	..	
		35.62	35.62	11,207	8,569	314.6	240.5	..	..	..	..	
	Total	326.94	326.94	93,713	1,04,369	2167.5	2592.8	55162	55172	276	1-13-8	
								146925	166653			

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STATEMENT No. X

Commanded area and assessed area under Kodayar Project, 1955-56

Taluk	Commanded area as per Sri Mahadeva Iyer's report					Assessed area as per revenue account	
	Wet	Dry	Poramboke	Total		1954-55	1955-56
	2	3	4	5		6	7
1							
Thovala	9768.13	1937.11	..	11705.24		10593.975	10593.8952
Agasteeswaram	12709.53	10284.30	3500	26493.83		13942.133	13942.1330
Kalkulam	11297.91	14113.82	..	25411.73		11008.275	11010.3097
Vilavancode	283.63	..	..	283.63		143.030	143.0300
Total	34059.20	26335.23	3500	63894.43		35687.413	35689.3679

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STATEMENT No. X—(cont.)

Taluk	Assessed area as per revenue account						
	Dry		Tank—Poramboke		Total		
	1954-55	1955-56	1954-55	1955-56	1954-55	1955-56	
	8	9	10	11	12	13	
Thovala	1849-66076	1850-34570	..	..	12443-636675	12444-24103	
Agasteeswaram	10852-84966	10860-22600	..	..	24794-983490	24802-35900	
Kalkulam	6771-31109	6771-31109	..	..	17779-586760	17781-62070	
Vilavancode	0-91000	0-91000	..	..	143-940000	143-94000	
Total	19474-73151	19482-79279	..	..	55162-146925	55172-16073	

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STATEMENT No. XI
Taluk-war statement showing wet lands within Kodayar Project for 1955-56

Taluk	Commanded as per Sri Mahadeva Iyer's report	Assessed area to the end of March 1955-56		Remarks
		Acre	Amount Rs. A. P.	
1	2	3	4	5
Thovala	9768-13	12444-24103	35,785 1 0	
Agasteeswaram	12709-53	10860-22668	10,339 13 7	
Kalkulam	11297-91	17781-62082	67,418 5 10	
Vilavancode	283-63	143-94000	305 14 7	
Total	34059-20	41230-02853	113,849 3 0	

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STATEMENT No. XII
Approximate statistics of dry area under Blocks for which Project water has been used
compared with gross dry area under Blocks

Year	Commanded area in opened blocks (in acres)	Dry area under crops assessed to the end of the year	Dry area under conversion during the year	Total area for which water is utilised	Dry area assessed to the end of the year inside and outside blocks	Assessment Rs. Ch. C.
1	2	3	4	5	6	7
1084	3567.00	857.00	447.00	1304.00	..	..
1085	7058.00	2603.00	801.00	3404.00	..	..
1086	10892.00	4245.00	1193.00	5438.00	..	..
1087	14322.00	5626.00	1000.00	6626.00	3636.00	14 546 27
1088	16934.00	8320.00	111.00	8431.00	5569.87	25 289 1
1089	18190.00	8431.00	1654.87	10085.87	7096.16	41 737 22
1090	20419.27	8440.61	594.77	9035.38	7846.49	52 405 12
1091	2502.98	9035.38	1375.01	10410.39	8964.58	62 752 1
1092	26161.15	8964.58	2000.00	10964.58	10585.96	74 101 20
1093	27023.20	10585.96	600.00	11185.96	11037.75	77 264 7
1094	28186.76	11596.295	790.00	12296.293	13865.10	92 936 19
1095	28268.97	12103.655	801.735	14667.335	13865.60	97 095 5
1096	28268.97	12671.325	567.665	15238.996	14510.13	10 670 25
1097	28268.97	13040.695	44.41	13045.105	14941.94	1 04 401 21
1098	28268.97	13467.085	426.37	13893.455	15472.35	1 08 672 2
1099	28268.97	13808.21	341.125	14149.335	15941.155	11 588 2
1100	28268.97	14074.94	403.625	14211.835	16344.78	1 4 413 12

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STATEMENT No. XII—(cont.)

Year	Commanded area in opened blocks (in acres)	Dry area under crops assessed to the end of the year	Dry area under conversion during the year	Total area for which water is utilised	Dry area assessed to the end of the year inside and outside blocks	Assessment Rs. Ch. C.
1	2	3	4	5	6	7
1101	28268.97	14274.895	302.647	14377.587	16647.42	1 16 530 24
1102	28268.97	14461.68	231.39	14506.192	16878.81	1 18 151 18
1103	28268.97	14658.255	251.09	14712.770	17129.90	11 909 5
1104	28268.97	14844.187	209.605	14867.680	17340.257	1 24 381 22
1105	28268.97	15003.757	171.125	15338.985	17511.389	1 22 579 20
1106	28268.97	15138.069	134.310	15173.295	17707.144	1 23 950 0
1107	28268.97	15307.466	169.397	15369.019	17398.091	1 26 124 5
1108	28268.97	15512.866	205.40	15621.769	18190.841	1 27 335 24
1109	28268.97	15657.920	145.06	15790.156	18359.215	1 28 514 14
1110	28268.97	15766.971	169.045	15907.701	18468.26	1 29 875 12
1111	28268.97	15847.251	80.28	15970.981	18548.54	1 30 391 10
1112	28268.97	15891.503	44.252	16015.233	18592.797	1 30 701 1
1113	28268.97	15911.543	20.04	16035.273	18612.834	1 30 841 17
1114	28268.97	15957.373	45.83	16081.103	18658.662	1 31 162 11
1115	28268.97	15990.668	33.295	16114.398	18691.957	1 31 395 13
1116	28268.97	16202.2934	211.6254	16326.0234	18903.5824	1 32 325 2
1117	28268.97	16356.7659	154.4725	16480.4959	19058.0549	1 33 407 19
1118	28268.97	16458.6614	101.8955	16560.5569	19159.9504	1 34 540 8
1119	28268.97	16486.2689	27.6075	16588.1644	19187.5579	1 34 734 4

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STATEMENT No. XII—(cont.)

Year	Commanded area in opened blocks (in acres)	Dry area under crops assessed to the end of the year	Dry area under conversion during the year	Total area for which water is utilised	Dry area assessed to the end of the year inside and outside blocks	Assessment Rs. Ch. C.
1	2	3	4	5	6	7
1120	28268.97	16486.2689	16.51	165.8.1644	19249.9624	1,34,783 1 10
1121	28268.97	16502.8589	0.22	16604.7544	19266.5524	1,34,992 4 10
1122	28268.97	16503.0789	1.74	16604.9749	19266.7724	1,34,894 21 15
1123	28268.97	16504.8189	190.49	16606.7144	29268.5124	1,34,896 22 3
1124	28268.97	16695.3089	..	16797.2044	19459.0024	1,36,352 11 0
1125	28268.97	..	..	..	..	..
1949-50	28268.97	16695.3089	..	16797.2044	19459.0024	Rs. A. P.
1950-51	28268.97	16695.3089	..	16797.2044	19459.0024	1,27,605 1 9
1951-52	28268.97	16695.3089	..	16797.2044	19459.0024	1,36,433 5 4
1952-53	28268.97	16695.3089	..	16797.2044	19459.0024	1,36,442 4 2
1953-54	28268.97	..	..	..	19459.0024	1,36,445 6 11
1954-55	28268.97	..	..	..	19474.5675	1,36,444 9 2
1955-56	28268.97	..	..	..	19474.73151	1,36,447 1 5
					19474.75151	1,36,451 1 5

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STATEMENT No. XIII
Statement showing the Disposal of the Tank Beds in Nagarcoll Division from 1984 M.E. to March 1956

Year	Thovala	Agasteeswaram	Eraniel	Kalkulam	Total area of Tank bed Acre	Cent	Amount realised Rs.	Total tax including water cess Rs. Ch. C.
1084	7.900	20.970	11.140	..	20	97	16,600	409 0 0
1085	0.460	25.780	17.340	3.79	19	37	13,455	369 1 5
1086	12.300	224.570	30.085	11.53	47	48.25	31,983	805 19 9
1087	0.300	295.755	9.930	..	278	98.75	1,95,092	6,753 11 8
1088	24.240	57.790	..	17.43	305	46	1,56,834	7,048 23 9
1089	115.030	75.500	..	3.94	98	47	70,057	1,989 26 11
1090	66.320	33.090	8.340	9.94	198	49	1,38,638	3,364 24 15
1091	22.505	92.900	2.930	14.72	122	14	1,53,491	2,744 25 13
1092	2.200	..	12.320	26.14	133	66	82,123	1,895 16 0
1093	15.050	5.055	6.010	2.10	41	21	32,978	641 10 12
1094	..	34.750	2.000	..	28	21	25,992	574 3 8
1095	..	15.300	4.280	0.20	2	23	2,127	23 7 3
1096	14.720	..	..	5.80	39	10	51,901	0 4 0
1097	3.380	..	..	7.42	21	14	28,397	493 23 7
1098	..	..	..	..	22	67	38,493	463 2 3
1099	..	..	..	..	5	39	16,035	144 15 0
1100	..	..	..	..	6	85	1,760	117 21 4
1101	..	..	..	..	2	..	1,470	54 23 0
1102	..	..	..	..	..	..	..	..
1103	..	..	..	1.63	1	63	705	18 3 15
1104	..	..	..	..	..	..	..	..
1105	..	..	..	..	27	37	29,320	285 0 12
1106	..	..	..	0.85	..	85	851	15 6 7
1107	..	..	..	..	..	..	..	..
1108 to 1953	..	..	..	..	..	..	..	..
1953-54	..	..	..	..	..	..	..	..
1954-55	..	..	..	..	..	..	..	..
1955-56	..	..	..	..	..	..	..	..

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STATEMENT No. XIV

Supplies and Service rendered by the Government
Engineering Workshops during 1955-56

		Rs.
Publi Works Department	..	7,54,138
Electricity	..	3,22,417
Medical	..	2,06,783
Public Health	..	22,904
Ayurveda	..	22,857
Education	..	1,27,313
University	..	30,897
Police and Jail	..	76,221
Judicial	..	68,909
Secretariat	..	82,927
Revenue	..	49,845
Community Project	..	22,606
Agriculture	..	36,404
Forest	..	2,385
Co-operative (—)	..	464
Panchayat	..	25,156
Miscellaneous	..	3,04,447
Government Concerns	..	12,696
Private parties	..	7,350
Total	..	21,76,719

STATEMENT No. XV

Statement of Receipts, Issues and Balance under the various Suspense Heads during 1955-56—
Government Engineering Workshops, Chackay

Sub-heads of Suspense	Opening Balance		Debit		Total		Credit		Closing Balance	
	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
i. Purchase	..	(—) 4,92,048 14 2	10,57,459 6 4	6 4	5,65,410 8 2	18,98,377 5 6	(—) 13,32,966 13 4			
ii. Stock	..	3,70,476 2 1	14,10,003 13 11	13 11	17,80,480 0 0	10,13,837 12 3	7,66,642 3 9			
iii. Mis. Advance	..	12,45,629 6 6	21,45,980 0 6	0 6	33,91,609 7 0	10,62,717 6 11	23,28,892 0 1			
iv. Workshops Suspense	..	(—) 3,496 5 4	26,28,406 12 4	12 4	26,24,910 7 0	27,29,733 2 8	(—) 1,04,752 11 8			

STATEMENT No. XVI

Statement of Receipts under Meter Ratings and other items of Revenue during 1955-56—Trivandrum Water Works Division

Major Head

XXXIX	Particulars	Amount in Rupees	Remarks
	(a) Rent charges ..	1,950	
	(c) Recoveries on expenditure ..	115	
	(e) Receipts from Water Works and Drainage Schemes ..	3,04,466	
	(f) Miscellaneous— (iii) Other items ..	35,376	
	Total ..	3,41,907	

STATEMENT No. XVI (A)

Statement showing the Receipts under Water Charges and other items of Revenue during 1955-56 of the Willingdon Water Works, Trivandrum

Serial No.	Particulars	Amount Rs.	A.	P.
1.	Water charges ..	2,44,629	1	6
2.	Sale of forms ..	183	0	0
3.	Estimate fees ..	321	0	0
4.	Plumbers Licence fees ..	290	0	0
5.	Meter Testing fees ..	299	0	0
6.	Lease of properties ..	1,023	6	0
7.	Stamping pipes ..	9	0	0
8.	Meter hire ..	44,524	14	0
	Total ..	2,91,279	5	6

STATEMENT No. XVI (B)

Statement showing the Receipts under Meter Ratings and other items of Revenue in Ernakulam Water Works during 1955-56

Particulars	Amount in Rupees
XXXIX	
(a) Rent on Buildings ..	1,242
(e) Receipts from Water Supply Scheme ..	4,16,047
(f) Miscellaneous— (i) Sale of Avenue trees ..	164
(ii) Other items ..	11,817
Total ..	4,29,270

STATEMENT No. XVI (C)

Statement of Receipts under Meter Ratings and other items of Revenue in Trichur Water Works during the year 1955-56

Particulars	Amount in Rupees
XXXIX (This Division was formed only during 1955-56)	
(e) Receipts from Water Works and Drainage Schemes ..	4,600
(f) Miscellaneous— (i) Sale of Avenue trees ..	..
(ii) Special tolls ..	..
(iii) Other items ..	656
Total ..	5,256

STATEMENT No. XVII

Demand, collection and balance statement of water charges for 1955-56 of the Willingdon Water Works, Trivandrum

Sl. No.	Particulars	Demand			Collection			Balance		
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
1	Palaces	..	..	..	6,038	4	0	4,841	4	0
2	Devaswoms	..	..	..	1,202	4	0	903	13	9
3	Government Institutions	..	..	..	93,751	11	8	74,629	11	2
4	Central Government Institutions	..	..	..	2,891	13	0	2,665	9	0
5	University	..	..	..	10,650	4	6	8,341	11	8
6	Residential Quarters and Guest House	..	..	..	7,911	5	0	6,648	12	9
7	Railway Residency, Post and Telegraphs	..	..	..	9,918	12	0	8,278	12	0
8	State Forces	..	..	..	13,532	4	0	4,651	2	0
9	Corporation Supplies	..	..	..	20,446	15	6	..	..	..
10	Private House Supplies	..	..	..	1,05,787	11	2	66,538	9	9
11	Casual Supplies	..	..	..	11,270	7	6	3,605	8	0
	Total	..	..	..	2,83,401	12	4	1,81,104	14	1
		..	..	..	..	..	..	1,02,296	14	3

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STATEMENT No. XVII (A)

Statement showing demand, collection and balance of water charges, Alleppey

Opening balance			Demand for 1955-56			Total			Collection			Balance		
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
2,696	4	4	2,394	0	0	5,090	4	4	Nil			5,090	4	4

STATEMENT No. XVII (B)

Demand, Collection and Balance Statement of Water Charges for 1955-56—Ernakulam Water Works

Serial No.	Name of Institution	Opening balance			Demand during the period of 3/55 to 2/56			Total for the year			Collection for 1-4-1955 to 31-3-1956			Balance			Remarks
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
1	2	3			4			5			6			7			8
1	Ernakulam Municipality	2,10,044	10	4	1,49,674	7	0	3,59,719	1	4	95,264	13	0	2,64,454	4	4	
2	Matancherry Municipality	1,01,102	1	10	24,188	13	0	1,25,290	14	10	18,897	8	5	1,06,393	6	5	
3	Fort Cochin Municipality	4,106	1	1	4,245	9	0	8,351	10	1	5,692	12	6	2,658	13	7	
	plus the amount as per revised bill No. 318 dated 31-7-56.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
4	Cochin Port	65,232	6	0	94,402	2	0	1,59,634	8	0	1,27,686	14	0	31,947	10	0	
5	R. N. Base 8"	53,926	15	5	69,627	14	0	1,23,554	13	5	82,898	1	9	40,656	11	8	
6	Magazine area	1,287	12	6	3,237	14	0	4,525	10	6	3,336	6	0	1,189	4	6	
7	I. N. Base 12"	3	9	0	..	..	..	3	9	0	..	..	..	3	9	0	
8	Always Municipality	..	..	..	86	14	0	86	11	0	19	10	0	67	4	0	
9	Junior Engineer's quarters	3	0	6	25	4	0	28	4	6	23	12	6	4	8	0	
10	Senior Driver's quarters	2	4	9	6	1	6	8	6	3	1	1	0	4	5	3	
11	Store Clerk's quarters	1	14	0	11	10	6	13	8	6	11	9	6	1	15	0	
12	Chlorine Mechanic's quarters	2	15	0	12	9	3	15	8	3	13	9	3	1	15	0	
13	Always Rest House	117	1	10	82	11	6	199	13	4	168	0	4	31	13	0	
14	Always Hospital	..	..	..	310	10	0	310	10	0	296	10	0	14	0	0	
15	P. W. Inspector's quarters, Always	19	6	0	113	14	0	133	4	0	68	1	0	65	3	0	

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STATEMENT No. XVII (B) — (cont.)

Serial No.	Name of Institution	Opening balance			Demand during the period of 3/55 to 2/56			Total for the year			Collection for 1-4-1955 to 31-3-1956			Balance			Remarks
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
16	Idappally Railway Station	262	12	0	149	11	6	412	7	6	382	5	0	30	2	6	
17	Alwaye Water Works Charge-man's quarters				14	2	0	14	2	0	10	15	0	3	3	0	
18	Caltex (India) Ltd., Ernakulam	133	3	3	897	7	0	1,030	10	3	879	2	3	151	8	0	
19	Kalamassery Polytechnic Meter No. I	..			499	2	0	..			963	9	0	..			
20	Kalamassery Polytechnic Meter No. II	..			525	8	0	..			317	9	0	..			
21	Government Institution	..			10,503	5	9	..			12,081	13	0	..			

STATEMENT No. XVII (C)

Statement of Demand, Collection and Balance of Water Charges for 1955-56—Trichur Water Works Division

Demand			Collection			Balance		
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
4,712	15	4	3,773	1	8	939	13	8

STATEMENT No. XVIII

Demand, Collection and Balance Statement of Meter Hire for 1955-56 of Willingdon Water Works, Trivandrum

Arrear demand to be collected till the end of 1954-55			Demand for the year			Total			Collection during the year			Balance			Remarks
Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	
27,875	0	7	49,497	12	5	77,372	13	0	44,524	14	0	32,847	15	0	

STATEMENT No. XVIII (A)

Statement of Demand, Collection and Balance of Meter Ratings for 1955-56—Trichur Water Works Division

		Demand			Collection			Balance		
		Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Meter Hire	..	90	15	0	82	2	6	8	12	6
Total	..	90	15	0	82	2	6	8	12	6

STATEMENT No. XIX
Demand, Collection and Balance Statement of Water Charges of the Willingdon Water Works for 1955-56 (Arrears)

Serial No.	Particulars	Arrear demand to be collected till end of 1954-55											
		1122	1123	1124	3, 1950	1950-51	1951-52						
1	2	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.						
1	Palaces	..	..	..	..	..	..						
2	Devaswoms	..	..	6 10 1	2 4 0	41 12 2	2 12 0						
3	Government Institutions	..	31 8 6	3 10 11	..	..	17 3 6						
4	Central Government Institutions	..	..	..	..	..	..						
5	University	..	..	..	283 1 0	496 3 4	54 15 2						
6	Residential Quarters and Guest Houses	..	38 12 11	3 10 11	174 10 0	247 8 9	276 15 0						
7	Railway Residency Post and Telegraph	..	..	..	..	..	..						
8	State Forces	..	..	..	..	939 12 0	149 5 6						
9	Corporation Supplies	..	..	11,153 5 6	7,552 0 0	11,573 1 2	13,379 14 10						
10	Private House Supplies	..	..	600 3 2	480 4 2	426 2 4	611 14 10						
11	Casual Supplies	1,400 15 0	1,652 12 4	6,052 7 9	122 9 6	15,175 14 5	6,428 9 2						
	Total	1,400 15 0	1,753 1 9	17,820 0 4	8,614 12 8	28,900 6 2	20,921 10 0						

APPENDIX No. XIX—(cont.)

Sl. No.	Particulars	Arrear demand to be collected till the end of 1954-55					Collection during the year 1955-56				
		1952-53		1953-54		1954-55		Total		1951-52	
		Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
1	2	9	10	11	12	13					
1	Palaces	..	..	613 4 0	613 4 0	..	613 4 0	..	..	..	..
2	Devaswoms	2 0 0	22 8 0	539 4 0	617 2 3	53 6 3	617 2 3	53 6 3	53 6 3	53 6 3	53 6 3
3	Government Institutions	49 6 9	6,298 11 7	28,424 11 3	4,825 4 6	35 3 5	4,825 4 6	35 3 5	35 3 5	35 3 5	35 3 5
4	Central Government Institutions	..	..	133 13 0	133 13 0	..	133 13 0	..	..	..	..
5	University	975 12 0	589 5 1	2,841 6 2	5,240 10 9	..	5,240 10 9	..	..	..	..
6	Residential Quarters and Guest Houses	231 0 0	940 8 6	1,265 15 7	3,179 1 8	42 7 10	3,179 1 8	42 7 10	42 7 10	42 7 10	42 7 10
7	Railway Residency Post and Telegraph	..	..	838 13 1	838 13 1	..	838 13 1	..	..	..	..
8	State Forces	23 2 0	3 0 0	4,599 6 0	5,714 9 6	684 0 0	5,714 9 6	684 0 0	684 0 0	684 0 0	684 0 0
9	Corporation Supplies	14,775 0 0	23,863 0 4	21,825 8 0	1,04,121 13 10	..	1,04,121 13 10	..	..	..	..
10	Private House Supplies	1,497 8 11	2,026 13 0	27,590 1 9	33,233 0 2	1,600 6 4	33,233 0 2	1,600 6 4	1,600 6 4	1,600 6 4	1,600 6 4
11	Casual Supplies	10,318 1 2	6,610 8 3	8,044 11 8	55,836 9 3	1,089 9 5	55,836 9 3	1,089 9 5	1,089 9 5	1,089 9 5	1,089 9 5
	Total	27,871 14 10	40,354 6 9	96,716 14 6	2,44,354 2 0	3,505 1 3	2,44,354 2 0	3,505 1 3	3,505 1 3	3,505 1 3	3,505 1 3

STATEMENT No. XIX—(cont.)

Serial Number	Particulars	Collection during the year 1955-56						Balance	
		1952-53		1953-54		1954-55		Total	
		Rs.	A. P.	Rs.	A. P.	Rs.	A. P.	Rs.	A. P.
1	2	14	15	16	17	18			
1	Palaces	..	..	..	..	401	4 0	401	4 0
2	Devaswoms	2 0 0	22 8 0	539	4 0	617	2 3	617	2 3
3	Government Institutions	2 4 0	5,312 2 8	21,707	9 9	27,057	3 10	27,057	3 10
4	Central Government Institutions	..	..	102	9 0	102	9 0	102	9 0
5	University	35 14 4	547 2 0	2,697	3 7	3,280	3 11	3,280	3 11
6	Residential Quarters and Guest Houses	..	915 10 9	1,149	15 1	2,108	1 8	2,108	1 8
7	Railway Residency Post and Telegraph	..	..	838	13 1	838	13 1	838	13 1
8	State Forces	3 12 0	..	2,928	12 0	3,616	8 0	3,616	8 0
9	Corporation Supplies	..	..	..	..	..	..	..	..
10	Private House Supplies	1,076 12 4	1,937 2 6	18,459	5 1	23,073	10 3	23,073	10 3
11	Casual Supplies	..	101 4 0	1,237	14 0	2,428	11 5	2,428	11 5
	Total	1,120 10 8	8,835 13 11	50,062	9 7	63,524	3 5	63,524	3 5
								1,80,829	14 7

STATEMENT No. XX

Statement of New Street Main Extensions carried out during the year 1955-56 in the Willingdon Water Works, Trivandrum

Serial No.	Name of work	Pipe laid		No. of fountains laid
		ft.	in.	
1	Street main extension along Kadiapattanam lane, Manacaud ..	780	11	1
2	Do. Kilikottu lane, Srivaram ..	69	0	1
3	Do. Edamadam lane, Kaithamukku ..	393	4	1
4	Do. in the lane southward from west of Pangode bridge joining Jagathy-Kochar road ..	1109	7	1
5	Do. to Panchiammancoil for house connections ..	202	2	
6	Do. along the lane near Palkulangara Primary School ..	535	0	2
7	Providing double tap south of Mosque at Attakulangara on lane running north-south on eastern side of Mosque ..	629	8	2
8	Street main extension in Moudgil's lane, Shankumughom—Petition from Sri Parameswaran Pillai, etc. ..	662	5	1
9	Do. along Unni's lane on the east of Uppalam road—Petition from Sri Damodaran Nair and others ..	336	4	
10	Installation of street tap in the lane south of Statue to Convent road ..	262	3	1
11	Street main extension in Aymanam lane, Perunthanni ..	387	6	1
12	Do. in the lane east of Devaswom Board Office to Amathara lane ..	348	0	
13	Do. in Plamood lane—Kaithamukku in Sreekanteswaram ward ..	936	0	1
14	Do. in Chirakulam to Uppalam road in the 1st Drainage lane branching from State road ..	412	3	1
15	Providing a street fountain tap in Mosque lane in Palkulangara ..	174	9	1

STATEMENT No. XX—(cont.)

Serial No.	Name of work	Pipe laid		No. of fountains laid
		ft.	in.	
16	Providing a street fountain near Kochar road between Edappazhingi Puthen kalungu junction and Maruthankuzhi near T.C. 684 ..	16	0	1
17	Do. near Maruthankuzhi near Pullayarkon house ..	16	3	1
18	Street main extension along the lane from Nanthancode junction to Banes compound ..	635	1	1
19	Do. along Sunnymade lane north ..	295	0	
20	Do. along Kuravankonam road to Charachira tank ..	299	9	1
21	Do. along Sasthancoil lane, Fort, Trivandrum ..	363	11	
22	Do. and street tap along the road north of Forest Office to main supply line on the western side of Valiakulam ..	742	6	2
23	Do. in the lane running east from Palayathu lane near Sri Nataraja Pillai's House ..	16	0	
24	Do. along the western side of Chackai thodu and on the west of Chackai bridge ..	1882	1	3
25	Do. in the Drainage lane connecting west street and South Nada street ..	191	4	
26	Do. along Thoppumudukku lane leading westward from Kallathumukku - Thiruvallam road ..	1830	10	3
27	Installation of street fountain in Kaladi and Konchiravila—Petition from Councillor Sri P. Madhavan Nair ..	693	9	3
28	Street main extension and provision of street tap at Maruthankuzhi Temple junction ..	308	2	1
29	Street main extension in Thamalam, Poojapura—Petition from Sri K. K. Nair and others ..	1522	4	1

STATEMENT No. XX—(cont.)

Serial No.	Name of work	Pipe laid		No. of fountains laid
		ft.	in.	
30	Street main extension in the lane near the Primary School, Nedumgad, leading to Mangattukonam, Anathanam, etc...	838	7	2
31	Do. along Thuppottukonam lane, Kowdiyar Division ..	452	0	1
32	Do. along the lane leading from Pulithanam, Kumarpuram from Nedumgad road ..	8	0	1
33	Do. on the western side of the Railway lane in Chackai Division ..	208	6	1
34	Do. along Chittukunnu lane, Puthencottah ..	231	6	1
35	Do. along the lane leading northward from Chengalloor temple ..	342	2	1
36	Providing a street tap near Police Out Post at Peroorkadai ..	16	0	1
37	Extending the main in Chemparathivilagam lane, Chalai, Trivandrum ..	160	0	1
38	Street main extension along Chamavilai lane, Kuriyathi ..	209	9	1
39	Do. eastward from the Observatory lane ..	269	9	1
40	Do. in the Drainage road from Jagathy-Kochar road for giving house connection to T. C. Nos. 652, 653, 654 and 655 of Jagathy ward ..	317	0	
41	Do. along the Drainage road leading eastward from Thali near Arasamood ..	311	9	2
42	Do. in the Drainage road near Kamasam Bridge, Killiyar ..	409	0	1
43	Do. to Thirumala junction ..	1491	2	1
44	Do. in Punnakkal Thoppu lane branching westward from Konchiravila road ..	2985	1	5
45	Installation of street tap in front of Primary School, Pangode—Poojapura ..	20	6	1

STATEMENT No. XX—(cont.)

Serial No.	Name of work	Pipe laid		No. of fountains laid
		ft.	in.	
46	Street main extension for providing water connection to T.C. 371, 371 B, 371 C in University ward ..	301	6	
47	Do. in the lane Easwarivilasom road for house connection ..	114	9	
48	Providing a street tap at Themankara at Pallithara Colony ..	253	6	
49	Street main extension along the lane leading from the western side of Kanjipura junction and joining Kumarapuram-Oolloor road ..	1169	9	2
50	Do. along Padippuravilasom lane leading eastward from Nedumgad road ..	536	6	1
51	Providing a street tap in the lane leading to the drainage pumping station from Lekshmi Textiles, Nedumgad ..	451	6	
52	Street main extension in the lane leading from Thamarabhagam to Kuzhiyalamoodu road, University ward ..	1705	0	3
53	Do. leading from southern side of Engineering College to Slaughter's house junction ..	526	3	..
54	Do. in Subramonia Pillai's lane in Singarathoppu road ..	349	7	1
55	Do. in the lane leading from the Brigade Hospital lane for house connection ..	378	10	
56	Do. in the lane leading northward of Karamana junction near Sri Brahmamuthu Chettiar's house for house connection ..	228	6	1
57	Do. along the lane west of Kavalikulam lane east of Pattom Palace ..	228	9	1
58	Do. to Vayyamoola, Vallakadavu ..	1672	3	4

STATEMENT No. XX—(cont.)

Serial No.	Name of work	Pipe laid		No. of fountains laid
		ft.	in.	
59	Street main extension in the Drainage road from Rottikkada junction to Chengalchoola ..	1400	7	
60	Do. in the road, Brahmin Colony, Peroorkada ..	60	9	1
61	Do. along the lane from the southern side of Deva-swom Board Office to the Statue of H. H. the Maharani ..	2386	3	1
62	Do. from Valiathura to Bheemappalli—Petition from George Victor ..	1276	9	2
63	Do. along the road from Muttada junction to south of Muttada, Kesavadasapuram ..	3447	6	5
64	Do. along the Drainage road leading from Chirakulam road and joining the Convent road ..	506	2	1
65	Providing a street tap in the lane from Easwarivilasom road to Edappazhinji road near T. C 777 ..	89	7	1
66	Providing a street tap to the Kulatharathala Thekkeveedu Drainage road near T.C. 109 ..	20	0	1
67	Providing a street tap in the Kulatharathala Thekkeveedu Drainage road near T.C. 125 ..	124	8	
68	Providing a street tap in the back side of Raja Kesavadas High School in the Drainage road starting from Sankar road ..	12	9	1
69	Providing a street tap in the place midway between the existing tap near the Karamana Police Out Post and a tap near the Telugu Chetty Street ..	45	0	2
70	Providing a street tap at the entrance end of the Vaniakudi lane at Karamana ..	28	7	1
71	Street main extension in Attira lane at Kannanmoola—Providing sufficient number of fountains ..	1316	7	2
72	Installation of street taps along the new Muttathara road ..	3067	11	4

STATEMENT No. XX—(cont.)

Serial No.	Name of work	Pipe laid		No. of fountains laid
		ft.	in.	
73	Extension of street tap along the road from Paruthipara junction to M.C. road around M.C. College ..	3640	9	2
74	Street main extension from Kowdiyar Kuravancanam road north of Salvation Army School ..	192	0	
75	Do. along Ponnancherry lane in Punnapuram ..	180	0	
76	Do. along the street on the northern side of Sivancoil street, Karamanai ..	168	7	
Total ..		50379	7	

STATEMENT No. XXI

Statement of Capital Outlay on Water Supply and Drainage Schemes, Trivandrum Water Works Division—1955-56

Water Works and Drainage Schemes		Expenditure Rs.
1. Willingdon Water Works ..		1,70,953
2. Moffussil Water Supply Scheme ..		1,71,045
3. Drainage Schemes ..		2,87,057
Total ..		6,29,055

STATEMENT No. XXI (A.)
Statement of Capital Outlay on Ernakulam Water Supply Scheme for 1955-56

Serial No.	Name of Scheme	Authority	Estimated Amount Rs.	Expenditure to the end of 1954-55 Rs.	Expenditure during 1955-56 Rs.	Total up to date Rs.
1	Renewing the corroded and leaky 6" victualic pipes by 6" A.C. pipes from Vadhala Railway Tool Shed up to Cabin at Edappally where water is leakish ..	17/CE/53	95,000	5,093	30,975	36,068
2	Ernakulam-Chowara Water Supply Scheme—Increased off take of water from Alwaye river ..	218/CE/1950-51	21.837 lakhs	18,545 } 3,73,911 }	9,59,313	13,51,766
3	Extension of pipe line to for market ..	313/CE/1950-51	16,400	1,536	10,345	11,981
4	2" A.C. pipe line to ..	18/CE/1951	13,700	2,521	10,216	12,737
5	Extension of pipe line to ..	2/22/WW	2,24,927	275	11,981	12,256
6	Water supply to Bholghatty, M. A. Road etc., Islands ..	112/CE/1953-54	1,18,000	20,637	52,922	73,559
7	Laying 12" Submarine pipe from Ernakulam to ..	111/CE/1955-56	9.73 lakhs	Nil	3,29,252	3,29,252
Total ..			9.73 lakhs		14,05,004	

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