

PUBLIC WORKS DEPARTMENT
MADRAS PRESIDENCY

ADMINISTRATION REPORT.

FOR THE YEAR

1935-36

PART I--WITH A DETAILED REVIEW OF CIVIL WORKS

(Part II—Irrigation will be issued separately)



MADRAS

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ADDITIONS AND ALTERATIONS TO TERRITORIAL CHARGES.

WALTAIR CIRCLE.

The Anantagiri section in the Agency area, which was attached to the Yellamanchili subdivision, and the portion of the Padwatluk and Veeravilli Agency which was attached to the Narasapatnam subdivision were transferred to the Koraput division during the middle of the year. On account of the formation of the New Orissa Province from 1st April 1936, a major portion of the Anantagiri section and a part of Sunki section were transferred to the Vizagapatam division along with certain roads and rest-sheds. In consequence of the abolition of the Umerkota section of the Indravati subdivision, and the Koraput North and Kolab sections of the Jeypore subdivision, the Padwa section was transferred to the Koraput subdivision and the remaining charges were added to the Jeypore subdivision. The Ichchapur section which formed part of Chicacole subdivision prior to May 1935, was transferred to Berhampur subdivision. The Agency subdivision of Parlakimedi Maliahs along with the Agency roads was handed over to the Revenue Department in May 1935.

DOWLAISHWARAM CIRCLE.

The following additional charges were formed for special investigations and execution of works:—

- (1) A special subdivision for 18 months to localize the second-crop zones in the Godavari Central and Eastern deltas.
- (2) A special subdivision at Nidadavole to execute the Vemuladevi and Losarigutlapadu projects.
- (3) A special subdivision at Dowlaishwaram for five months from 1st February 1936, or from date of starting work to erect the 3-feet shutters over the Godavari Anicut.
- (4) A special subdivision at Rajahmundry for works taken up under the special accelerated and widespread scheme of minor irrigation works.

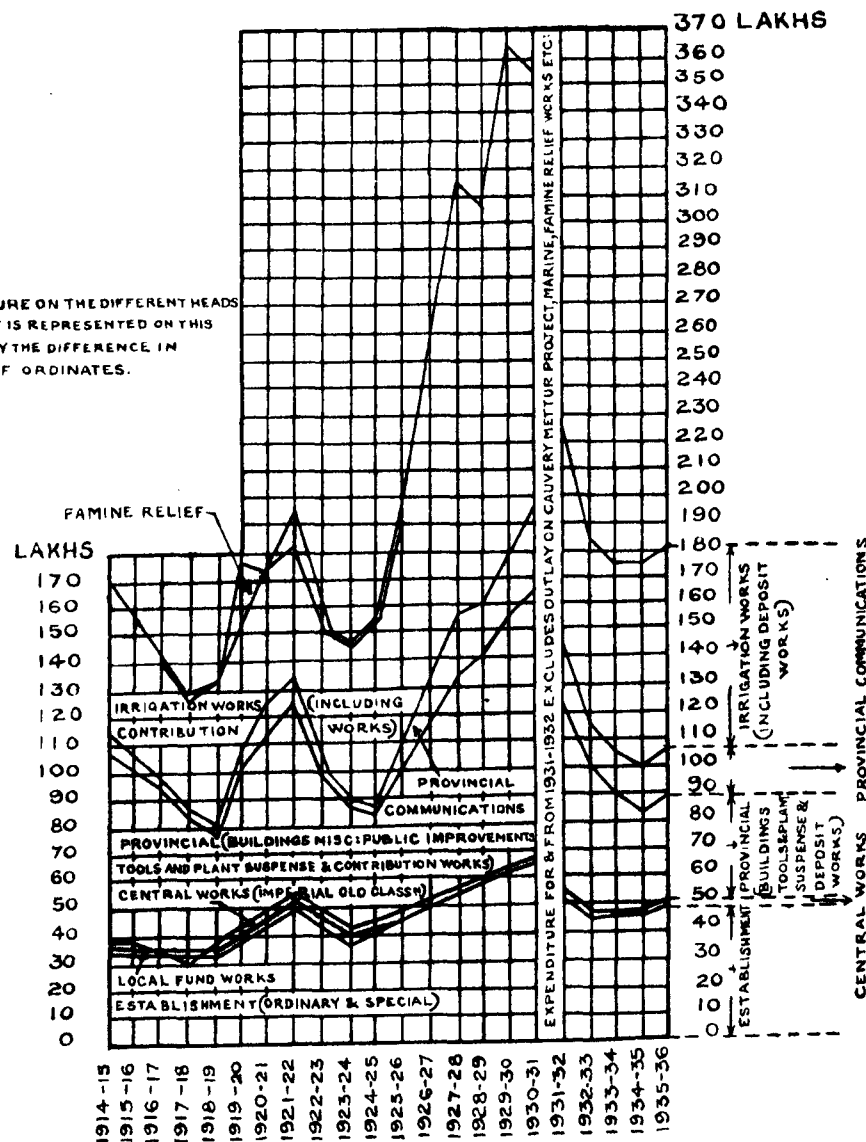
BEZWADA CIRCLE.

The special subdivision of Kistna Eastern division for "Remodelling of channels" was sanctioned for a further period of five years from 1935. In connexion with the special accelerated and

DIAGRAM SHEWING
PUBLIC WORKS EXPENDITURE

N.B.

EXPENDITURE ON THE DIFFERENT HEADS OF ACCOUNT IS REPRESENTED ON THIS DIAGRAM BY THE DIFFERENCE IN HEIGHTS OF ORDINATES.



widespread scheme of improvements for minor irrigation works sanctioned by Government, three special subdivisions were formed during the year with headquarters at Bezwada, Guntur and Nellore. A special subdivision was formed in the beginning of the year, to execute the Kistna West High Level Canal Scheme in Kistna Western division.

MADRAS CIRCLE.

A special subdivision was formed from January 1936 for the "Construction of official residences for Gazetted officers in the Madras City, at Adyar" and was attached to the South Presidency division. Another special subdivision was formed in the Chingleput division in June 1935 for the "Construction of wireless buildings at Tiruvottiyur" as the Post and Telegraph Department desired the speedy execution of this work. For the "Brucepettah Drainage Scheme at Bellary" a subdivision was created in June 1935 and was attached to the Bellary division. The activities of the Public Works stores were much restricted and the office staff of the Public Works Department's stores division retrenched and amalgamated with the Public Works Workshops with effect from 1st November 1935. The famine division which was formed at Bellary in 1934 was closed on 7th November 1935.

COIMBATORE CIRCLE.

The Mettur Headworks division was abolished on 1st April 1935 and the work of that division was taken over by the Salem division from that date. The special division which was constituted in November 1934 for the localization of the ayacut under the Lower Bhavani Project was abolished on 30th November 1935. A new subdivision was formed at Udamalpet in February 1936 for restoration of the irrigation works damaged by the floods of 1935. To execute the works connected with the accelerated and widespread scheme of improvements to minor irrigation works, two special temporary subdivisions were formed from 1st June 1935, one at Vellore and the other at Salem.

TRICHINOPOLY CIRCLE.

The Kattalai Special division was abolished on 30th June 1935; there were incomplete works in that division in the High Level channel and in the North Bank canal; these and the maintenance of the canals were entrusted to a new subdivision formed in July 1935 with headquarters at Kulittalai. Four special subdivisions were formed from 1st June 1935 for the execution of works connected with the accelerated scheme of improvements to minor irrigation works, with headquarters at Trichinopoly, Dindigul, Srivilliputtur and Palamcottah, and were attached to the Trichinopoly, Periyar, Ramnad and Tinnevely divisions respectively.

REVIEW OF CIVIL WORKS.

I.—OFFICE OF THE CHIEF ENGINEER (BUILDINGS AND ROADS).

CONSULTING ARCHITECT'S SECTION.

During the year 399 drawings were prepared.

Detailed schedules of quantities were prepared for 25 schemes aggregating in value to about Rs. 8.67 lakhs. Approximate estimates were prepared for various works amounting to about Rs. 47.98 lakhs.

The following important buildings and projects were dealt with during the year:—

- 1 Government Museum, Egmore—Extensions.
- 2 Rayapuram Medical School, North Wing.
- 3 Central Record Office, Egmore, Extensions.
- 4 Trichinopoly—Court House—for Subordinate Judge and District Munsif.
- 5 Official residences—Adyar, Class II.
- 6 Circuit House—Gopalpur—Revised design.
- 7 Madras Broadcasting station—Studio and office.
- 8 Government House, Madras—
 - (a) Dining hall.
 - (b) Collonade, Pergola and Drive.
- 9 Government House, Guindy—Alterations and extensions.
- 10 Government Headquarters Hospital, Madura—Maternity Block.
- 11 Lady Willingdon Training College, Triplicane.
- 12 Government Headquarters Hospital, Cocanada—

Administration, X-ray block and Medical and private wards, Isolation ward, Labour ward, alterations and additions to out-patient department—Venereal clinic, leprosy and skin clinic for males and females.
- 13 Government Mental Hospital, Madras—
 - (a) European Female section, ward for 32 beds.
 - (b) Indian female section, ward for 52 beds.
 - (c) Male refractory section, ward for 60 beds.
- 14 Madras City Police, Stores and deposit arms block.
- 15 Type design for Deputy Tahsildar's office, revised design.
- 16 Type design for motor sheds for single and double garages.
- 17 Type design for manual training classes in schools.

18 Type design for Court House for Sub-Judge or District Munsif.

19 Type designs for irrigation gumastas' and telephone clerks' quarters and for quarters for mile coolies and lascars.

Detail drawings were prepared in considerable numbers for Government Museum, Rayapuram Medical School, Central Record Office, Trichinopoly Court House, Adyar Residences, Class II, Government Houses, Madras and Guindy, and Government Headquarters Hospital, Madura, etc., and 1/16th inch scale drawings were also prepared for several schemes.

Educational grant-in-aid cases were dealt with to the value of Rs. 17,80,909.

TECHNICAL SECTION.

I. Two hundred and ninety-three (293) estimates of the aggregate value of about rupees two hundred and twenty-five lakhs (Rs. 225 lakhs) were scrutinized in this section during the year. They were under different heads as below:—

	Number of estimates.	Amount in lakhs.
		RS.
Buildings	225	90.7
Water-supply	9	25.4
Drainage	3	19.2
Bridges and causeways	25	48.8
Roads	22	39.8
Miscellaneous	9	1.4
Total ..	293	225.3
		or say
		225

II. Important among them estimated to cost over one lakh are:—

(a) Buildings.

- 1 Record Office, Madras—Additional buildings.
- 2 Wireless Station, Madras.
- 3 New Headquarters Hospital, Cocanada.
- 4 Mission Hospital, Madura (Willis F. Pierce Memorial Hospital)—Block C.
- 5 Penitentiary, Madras—Cells for under-trial and quarantine prisoners.
- 6 General Hospital, Madras—Remodelling—Improvements to main building.
- 7 New Headquarters Hospital, Trichinopoly.
- 8 Christian College, Tambaram.
- 9 Cochin Hospital.
- 10 Presidency College, Madras—Natural Science Block.

- 11 Medical College and Hospital, Vizagapatam.
- 12 Constables' huts, M. division, Harbour Police, Tondiarpet, Madras.
- 13 New Government Press, Mint Buildings, Madras.
- 14 General Hospital, Madras—Remodelling—New kitchen block, store block, nurses' entrance and stair services, corridors, etc.
- 15 Capron Hall High School, Sikkikulam, Madura.
- 16 Combined Court-house for a District Munsif and Sub-Judge, Trichinopoly.
- 17 Volunteer Guards' Institute, Vepery, Madras—Improvements.
- 18 Government Museum, Madras—Additional buildings.
- 19 Senate House, Madras—Improvements (temporary accommodation for the new Legislative Assembly).
- 20 Stanley Medical School, Rayapuram, Madras—Northern Block.
- 21 Municipal High School, Bezwada.

(b) Water-supply.

- 1 Madras City—Fourth pumping unit at Kilpauk Pumping station.
- 2 Sembiam (Panchayat) Scheme.
- 3 Karur (Municipality) Scheme.
- 4 Tirumani—Lady Willingdon Leper Settlement Scheme.
- 5 Adoni (Municipality) Scheme—Supply from Hagari River.
- 6 Saidapet (Municipality) Scheme.
- 7 Tiruppur (Municipality) Scheme.
- 8 Virudunagar (Municipality) Scheme (Alternative alignment for pipe line considered).

(c) Drainage.

- 1 Cochin (Municipality) Scheme.
- 2 Kurnool (Municipality) Scheme.
- 3 Madras (City) Nungambakam and Mylapore divisions.

(d) Bridges and Causeways.

- 1 Combined bridge and regulator across the Pennar at Nellore.
- 2 Bridge across the Galeru at mile 18/7 of Nandyal-Atmakur road, Kurnool district.
- 3 Bridge across the Langulya at Sankili on the Vizianagaram-Palakonda road, Bobbili district.
- 4 Causeway across the Pennar near Tadpatri at 80/3—7 of Cuddapah-Bellary road, Anantapur district.

- 5 Reinforced concrete pipe culverts in Ootacamund-Gudalur-Mysore road, Nilgiris district.
- 6 Bridge across the Aliyar at Vannanthorai on the Anamalai Ghat road, Coimbatore district.
- 7 General Hospital Bridge, Madras—Widening.
- 8 Bridge across the Erinjolly at mile 2/0 of Tellicherry-Coorg road, Malabar district.
- 9 Bridge across the Pennar on the Madakasira-Kodikonda road, Anantapur district.
- 10 Bridges across—
 - (a) the Murat } rivers on the Calicut-Payyanur road,
 - (b) the Korapuzha } Malabar district.
- 11 Bridge across the Vellar near Bhuvanagiri on the Shatiya-to-Porto Novo road, South Arcot district.
- 12 Causeway across the Cheyyar at mile 11/7—8 of Conjeeveram-Wandiwash road, North Arcot district.
- 13 Bridge across the Kadangalur Thodu on the Kondotti-Areacode road, Malabar district.

(e) *Roads.*

- 1 Ootacamund-Gudalur-Mysore Frontier Trunk road—Nilgiris district—Improvements.
- 2 Periyakulam-Kuruvaranath road, Madura district—Special repairs.
- 3 Gudalur-Vayitri-Calicut Trunk road—Second reach from mile 79 to 85—Nilgiris district—Improvements.
- 4 Madras-Bangalore Trunk road—North Arcot district—Diversion via Tiruvalam and Katpadi.
- 5 Great Southern Trunk road, Madura district—Special repairs from Kodai road railway station to Tirumangalam (miles 272 to 307).
- 6 Rajahmundry-Maredumilli road, East Godavari district—Formation.
- 7 Polavaram-Singampalli road, East Godavari district—Forming and metalling—Famine relief works.
- 8 Madras-Calicut Trunk road, Malabar district—Section VIII—Mongam to Kuttilangadi—Comprehensive improvements.
- 9 (a) Rayagada-Khojiripoda pass, Ganjam Agency—Conversion into a carriage road.
(b) Approach road to the Khojiripoda ghat in Parlakimedi Malais—Ganjam Agency.
- 10 (a) Great Northern Trunk road, Chingleput district—Experimental surfacings from 4/6 to 11/6.
(b) Great Western Trunk road, Chingleput district—Improvement (concreting, etc.), from 3/5 to 13/5.
- 11 Buttayagudam-Jeelugumalli road, East Godavari district—Famine relief works.

VALUE OF GOVERNMENT BUILDINGS IN CHARGE OF THE PUBLIC WORKS DEPARTMENT.

The total value of buildings in charge of the department is 1,122 lakhs; 15.48 lakhs was spent on their repairs, a percentage of about 1.4.

II.—WORKS IN PROGRESS.

The total expenditure during the year on works and repairs under all heads including expenditure on deposit works but excluding irrigation works was 63.82 lakhs as compared with 57.58 lakhs in the previous year.

BUILDINGS.

(1) *Remodelling of the General Hospital.*—Estimate—A.S. Rs. 39,29,000, T.S. Rs. 36,42,918, outlay during the year Rs. 2,39,876; outlay to end of the year Rs. 27,14,084.

The following sub-works were in progress :—

- (1) *Constructing a new out-patient department.*—Compound wall in front of out-patient department, connecting corridors between the various blocks in the General Hospital, lowering General Hospital compound, etc.
- (2) *Constructing an X-Ray Institute in General Hospital and open drains and Cuddapah slab-pavement.*—Estimate Rs. 3,27,500. Outlay during the year was Rs. 528, outlay to end of the year Rs. 3,01,378.
- (3) *Constructing a new operation block and surgical ward in the General Hospital and providing Cuddapah slab-pavement and drains all round.*—Estimate Rs. 11,48,230 + Rs. 9,500; expenditure during the year Rs. 16,876, expenditure to end of the year Rs. 8,78,511.
- (4) *Remodelling and rebuilding the laundry.*—Constructing two ten-feet diameter wells.—Providing an electric pump and purchasing a water softening plant, and a Cochrane boiler—Estimate Rs. 2,38,730; outlay during the year Rs. 2,063, outlay to end of the year Rs. 2,23,619.
- (5) *Constructing a new venereal block.*—Estimate Rs. 2,28,000, outlay during the year Rs. 58,328; expenditure to end of the year Rs. 1,39,129.
- (6) *Sanitary installation, drainage and water-supply scheme.*—Estimate Rs. 4,43,000; outlay during the year Rupees 50,814; outlay to end of the year Rs. 1,94,014.

The R.C. Reservoir was completed and permanent water-service connexions to all the blocks except the main building and old Medical College were made available. Sanitary fittings to the new isolation and venereal blocks and the main building are in progress. A scheme for hot water supply to the out-patient block is being sanctioned.

(7) *Improvements to the main building.*—Estimate Rupees 1,64,000; outlay during and to end of the year Rs. 1,077. Improvements to the Hobart ward on the first floor of the main building, General Hospital. The work was under execution during the year. The new Indian officers' wards were completed and occupied in April 1936.

(2) *Construction of a combined administrative block for the General Hospital and Pathological Institute for the Medical College, Madras.*—Estimate, Rs. 12,00,000. Outlay to end of the year Rs. 8,57,503. Outlay during the year, Rs. 29,543. The main building (mostly completed) including the Professors' and Administrative blocks was handed over to the medical department for occupation. A compound wall with gate-keepers', electric and water meter rooms with pavement all round in front of the new block was completed. Roads and lawns round the block were completed and roads opened to traffic. An estimate for Rs. 1,23,000 for 'Extensions to the Hygiene block, Medical College' was sent to the Principal, Medical College. The scheme of buildings for the non-medical staff of the General Hospital on the vacant land on St. Mary's Road, opposite to the Moore Market, was being revised.

(3) *Remodelling of the Penitentiary, Madras.*—Estimate Rs. 10,13,440 (T.S.). The outlay on the work during the year was Rs. 15,485 and that to end of the year was Rs. 3,29,524. The quarters for the jailor and deputy jailor were built and handed over for occupation. The construction of compound wall is almost completed and the administrative block is in good progress.

(4) *Remodelling of the Government Press, Mint Buildings, Madras.*—Estimate Rs. 5,92,000. The outlay on the work during the year was Rs. 30,480 and that to end of the year was Rs. 34,897. The entrance road to the Government Press has been widened and concreted. Temporary sheds and runways have been put up. Alterations to rooms, which were partly dismantled and partly retained, were completed. Buildings which have to be demolished to make room for new construction have been sold in auction, and the debris are being removed.

(5) *Construction of a natural science block for the Presidency College, Madras.*—Estimate Rs. 5,38,000. Workslip Rs. 4,80,000. The outlay on the work during the year was Rs. 95,041 and that to the end of the year amounted to Rs. 1,82,399. Superstructure in first floor was being raised, and the Ferro concrete roof was laid and finished off with the covering layer of flat tiles. Parapet walls with cutstone coping on top, have also been formed. Verandas have also been built with polished stone pillars, ornamental caps fitted thereon and reinforced concrete roofing laid on top.

(6) *Construction of official residences for gazetted officers in the Madras City, at Adyar.*—Estimate Rs. 4,23,000 (not yet sanctioned). The outlay during the year was Rs. 5,000. Foundations for

two second-class residences in the 'Grange' compound were taken down to 6 feet below ground level and the masonry was brought up to ground level.

(7) *Construction of new buildings and compound wall for the Public Works Workshops, Madras.*—Estimate Rs. 4,19,510. The outlay on the work during the year was Rs. 15,203 and that to end of the year was Rs. 3,99,358. The filling in the low ground on the south and east of machine shops was completed and half the steel work was painted. Laying of tram-rails and shifting of machinery by the Public Works Workshops are in progress.

(8) *Construction of an additional building for the Lady Willingdon Training College, Madras.*—Estimate Rs. 2,47,170 (A.S.). [Detailed estimate not yet sanctioned.] The outlay on the work during the year was Rs. 428. The work was just started at the close of the year. Further progress is held up owing to delay in getting the site evacuated by the fisher people.

(9) *Constructing a new His Royal Highness the Prince of Wales Hospital for Children of 50 beds attached to Government Victoria Caste and Gosha Hospital for Women.*—Estimate Rs. 2,31,950. Contribution received to end of 31st March 1936 was Rs. 1,56,957.

The outlay on the work during the year was Rs. 56,463 (including centage charges) and that to end of the year was Rs. 1,25,972. The work is a part contribution work and the contribution required for expenditure is being periodically obtained from the hospital committee. The ground, first and second floors were completed and the building was formally opened by Lady Erskine on 16th. March 1936.

(10) *Acquisition of site and construction of a building for the Municipal High School, Anantapur.*—Estimate Rs. 1,38,000. Workslip Rs. 1,25,050. The outlay to end of the year amounted to Rs. 68,920 and the expenditure during the year was Rs. 30,012. The ground floor superstructure, walls and a portion of terracing, were completed. The first floor has been raised to an average of 6 feet above terrace level in the front block and to 4 feet in the rear block. The compound wall was completed except for fixing of the gates.

(11) *Installation of a combined gas plant for the Medical College and the General Hospital, Madras.*—Estimate Rs. 2,28,300. Workslip Rs. 1,10,000. The outlay on the work during the year was Rs. 1,627 and that to the end of the year amounted to Rs. 1,00,521. The distribution lines to the pathological, venereal and isolation blocks were completed. This is a work which is done as each building of the main scheme is completed and as gas is laid to it.

(12) *Construction of quarters for the Harbour Police of Tondiarpet.*—Estimate Rs. 1,27,000. The outlay during the year amounted to Rs. 4,943. The work has come up to basement level.

(13) *Construction of buildings for the short-wave wireless receiving station with quarters at Tiruvottiyur.*—Estimate Rs. 1,24,730 plus 5,480. Outlay during the year, Rs. 71,120. Outlay to end of the year, Rs. 76,505. The major portion of the work included in the main estimate was completed before the end of March 1936. The following items of work estimated to cost Rs. 66,375 remain to be done :—

- (a) Water-supply and drainage arrangements.
- (b) Additional quarters for married operator.
- (c) Motor garages.
- (d) Petrol shed.

The estimate for item (a) has been prepared and sent to the Sanitary Engineer for approval. Items (b), (c) and (d) were not included in the original scheme but subsequently proposed by the Posts and Telegraphs Department.

(14) *Extensions to the Electrical Engineering laboratory of the College of Engineering, Guindy.*—Estimate Rs. 1,16,500. The outlay on the work during the year was Rs. 56,940 and that to end of the year was Rs. 79,248. The main building was completed; the items remaining over were the air-conditioning to standard room forming the reinforced concrete gallery, and the painting and laying of rain water pipes.

(15) *Additions and alterations to Government House, Guindy.*—Estimate Rs. 1,00,000. Outlay to end of the year, Rs. 104. Construction of a terrace garden was started during the year.

(16) *Extensions to the Madras Record office.*—Estimate Rs. 1,80,000 (detailed estimate not yet sanctioned). The outlay on the work during the year was Rs. 509 and that to end of the year was Rs. 509. The scheme was started at the close of the year.

(17) *Constructing a new Headquarters Hospital at Madura.*—Estimate Rs. 15,99,000. The expenditure during the year was Rs. 93,000 and that to the end of the year was Rs. 3,93,970. The work is in progress.

(18) *Construction of quarters and other buildings for the Malabar Special Police.*—Estimate Rs. 8,30,000. The outlay during the year was Rs. 84,978 and that to the end of the year was Rs. 5,83,698. Of the five camps included in the scheme, those at Malappuram, Melmuri, Klari and Areacode have been completed. The buildings in the Pandikad camp are in progress.

(19) *Acquisition of the buildings of the Madras Volunteer Guards' Institute for the Traffic and Licensing department of the Madras City Police.*—Estimate Rs. 1,17,200. The buildings were acquired for the Traffic and Licensing department. Necessary improvements, to make them habitable, were carried out and almost completed. They were handed over to the Police department for occupation.

(20) *Constructing Armed Reserve Police lines at Salem.*—Estimate Rs. 2,33,784—The outlay on the work during the year was Rs. 4,390, that to the end of the year being Rs. 2,04,659. All works were completed and the buildings were handed over to the Police department.

(21) *Construction of medical school and hospital buildings at Guntur.*—Estimate Rs. 9,10,500. Workslip Rs. 8,35,400. The expenditure during the year was Rs. 1,540; the total expenditure to end of the year being Rs. 6,72,409. The sub-work executed during the year was "Improvements to the Radiograph and X-ray block." The work is in its closing stage.

(22) *Construction of new buildings for the Headquarters Hospital at Cocanada.*—Estimate Rs. 5,80,000. The expenditure on the work during the year was Rs. 1,315. The scheme was started at the close of the year.

(23) *Construction of a combined court-house for the Subordinate Judge and the District Munsif, Trichinopoly.*—Estimate Rs. 1,08,000. The expenditure to end of 1935-36 amounted Rs. 3,000. The work was begun at the end of the year.

COMMUNICATIONS.

Roads.

(1) *Constructing feeder roads to connect the Parvatipur-Raipur railway.*—Estimate Rs. 6,86,818. The outlay on the work during the year amounted to Rs. 57,732 and that to end of the year to Rs. 1,90,078. The work is in progress.

(2) *Improvements to the Nilambur-Kalikavu-Karuvarakundu road.*—Estimate Rs. 3,15,000. The outlay during the year was Rs. 33,022 and that to end of the year was Rs. 2,04,262. The work is in progress.

(3) *Construction of road from Thoppur to Mettur, Salem.*—Estimate (A.S.) Rs. 3,03,000. Revised estimate, Rs. 3,51,040. The work was completed in the year, and was handed over to the District Board, Salem, for maintenance from 9th September 1935. The outlay on the work during the year was Rs. 22,254 and that to end of the year was Rs. 3,08,647.

(4) *Constructing a pucca metalled road from Lothugedda to Gangaraju Madgole.*—Estimate, Rs. 2,21,400. The work was stopped under orders of Government and the road was handed over to the Revenue Department for maintenance. The outlay on the work was Rs. 46,815.

(5) *Extension of Vizagapatam-Anantagiri road from 64/5 to Araku.*—Estimate, Rs. 2,57,027. The expenditure on the work during the year was Rs. 11,505 and the total outlay to end of the year amounted to Rs. 1,21,257. The work is in progress, and is now in charge of the Koraput division, transferred to the new Orissa Province.

(6) *Improvements to the Kondotti-Areacode road and construction of a new bridge across the Kadangalur thodu.*—Estimate Rs. 1,40,000. The outlay on the work during and to end of the year was Rs. 1,997. Earthwork for widening the road was in progress and the repairs to culverts were started.

Bridges and Causeways.

(1) *Construction of a new bridge across the Eranjolly river on the Tellicherry-Coorg road, Malabar district.*—Estimate Rupees 1,27,000. The expenditure during the year as well as to end of the year was Rs. 1,950. Forming approaches was the work mainly done during the year.

(2) *Transfer of the Cauvery bridge and the surplus sluice bridge at Mettur.*—A portion of the cost of the two bridges (Rs. 3,60,300) originally constructed at the cost of the Cauvery-Mettur Project was ordered in G.O. No. 2289 W., dated 22nd October 1935, to be debited to '41. Civil Works—Provincial' as the Thoppur-Mettur road on which the bridges are located has been thrown open to general traffic and has been used as an alternative through route from Madras to Calicut.

WATER-SUPPLY SCHEMES.

(1) *Virudunagar water-supply scheme.*—Estimate Rupees 7,26,000. The Virudunagar water-works were temporarily closed on 30th November 1934 and reopened in April 1935. The barrage wall, infiltration gallery and suction well were constructed in 1933-34. The municipal council has proposed to bear the full cost of additional expenditure involved by the change of alignment of road. The laying of the main was started from the head works in February 1936. The expenditure on the work during the year amounted to Rs. 2,87,012 and the outlay to the end of the year was Rs. 3,47,170. The scheme is expected to be completed by July 1937 with a saving of about a lakh of rupees due to fall in prices of material and labour.

(2) *Saidapet water-supply scheme—Main scheme.*—Estimate, Rs. 2,90,700. Workshop, Rs. 3,05,000; contribution for the year, Rs. 15,450. The outlay during the year was Rs. 3,248 and that to end of the year was Rs. 2,58,575. The overhead tank was fitted up by the Public Works Workshops.

(3) *Saidapet water-supply scheme—Extension to Mambalam, Mettupalayam, Little Mount, Guindy, etc.*—Estimate, Rs. 60,570; contribution for the year, Rs. 31,000. The outlay during and to end of the year was Rs. 15,552. Pipes and specials were received and tenders for fitting them were called for.

(4) *Arkonam water-supply scheme.*—Estimate, Rs. 1,92,400. The outlay during the year was Rs. 32,834 and that to end of the year was Rs. 35,913. 1,700 pipes for the 7-inch diameter main were received from the Mysore and Bengal Iron Works. The pipes were tested.

(5) *Tiruvallur water-supply scheme.*—Estimate, Rs. 1,32,400; contribution for the year, Rs. 1,000. The outlay during and to end of the year was Rs. 1,000. Suction well has been built and the yield tests are being made.

(6) *Wallajapet water-supply scheme.*—Estimate, Rs. 96,870. An outlay of Rs. 2,743 was incurred during the year and the total outlay to end of the year amounted to Rs. 10,865. The execution of the scheme was suspended in view of the unsatisfactory financial position of the municipal council.

(7) *Coimbatore water-supply scheme.*—The outlay during the year was Rs. —16,949 and that to end of the year was rupees 44,32,637. The minus expenditure during the year represents the credit on account of half the cost of sheds transferred to the municipality and the refund on account of the non-exchange telephone line by the Post and Telegraphs Department. The work was completed and handed over to the municipality in March 1934. Orders of the Government regarding the refund of the balance of contribution to the municipality, were received in G.O. Ms. No. 1612, Public Works, dated 11th July 1936.

(8) *Palacole water-supply scheme.*—Revised estimate, rupees 4,22,500. The outlay during the year was Rs. 15,370 and that to end of the year was Rs. 4,17,146. The work according to the original estimate was completed four years back. The expenditure during the year represents mainly payments of enhanced land compensation. Reinforced concrete pale fencing was done during the year at a cost of Rs. 1,689.

(9) *Tiruvannamalai water-supply scheme.*—Estimate, rupees 3,47,900. An outlay of Rs. 10,021 was booked during the year, and the expenditure to end of the year amounted to Rs. 3,04,481. The final bill of Messrs. Crossley Brothers, Limited, who supplied the engines and pumps for the work was awaiting payment pending the production of a certificate from the Sanitary Engineer, of satisfactory completion of the work by the contractors, under the terms of the contract.

(10) *Improvements to Nellore water-works.*—Estimate, Rs. 96,000. The expenditure during the year was Rs. 8,338 + 200 (liabilities) the total expenditure to end of the year amounting to Rs. 52,328 plus Rs. 200 (liabilities). The whole work except "infiltration gallery and pipe connexions" was completed by the end of the year.

(11) *Tadpatri water-supply scheme.*—Estimate, Rs. 95,000; contribution for the year, nil. Outlay to end of the year, Rs. 77,212. The unspent balance was refunded during the year and the completion report was submitted.

(12) *Improvements to the water-works at Bezwada.*—Estimate, Rs. 71,000. The expenditure during the year was Rs. 268 and the total expenditure to end of the year was Rs. 65,711. The work was completed in all respects and was finally handed over to the municipality.

(13) *Constructing a reinforced concrete service reservoir and extension of pipe lines, Proddatur.*—Estimate, Rs. 32,585; contribution for the year, Rs. 7,607. The outlay during the year was Rs. 13,551 and that to the end of the year was Rs. 22,565. Both the extension of pipe lines and the reinforced concrete service reservoir were completed during the year. The pipe lines were handed over to the municipality. The work of fixing water-level indicator and providing hand railings to the iron ladder is to be taken up during the current year.

(14) *Extension of pipe lines to the northern portion of Georgepet and to police lines at Anantapur.*—Estimate, Rs. 10,570. Outlay to end of the year, Rs. 9,248. Laying of pipes was completed during the year. The question of locating the water-taps inside the compound of the Police lines was under correspondence and the matter was settled only in July 1936.

(15) *Peddapur water-supply scheme.*—Estimate Rs. 95,500. An outlay of Rs. 777 (including centage charges) was incurred during the year. The work could not be started pending completion of land acquisition proceedings. The notification under section 4 (1) of the Land Acquisition Act was approved by Government in January 1936. The revised estimate has been recently received sanctioned by Government.

DRAINAGE SCHEMES.

(1) *Bezwada drainage scheme.*—Estimate, Rs. 7,54,800. The expenditure during the year was Rs. 94,843 plus Rs. 10,167 (liabilities) the total expenditure to end of the year being Rs. 4,37,004 plus Rs. 10,167 (liabilities). The work is in progress.

(2) *Brucepel drainage scheme of the Bellary Municipality.*—Estimate, Rs. 4,39,900. Contribution received during the year, Rs. 5,000. Outlay during and to the end of the year was Rs. 302. Necessary levels have been taken. The revised estimate has been approved and proceedings for land acquisition for the sewage farm were sent to the Board of Revenue for transmission to Government for approval and publication in the *Fort St. George Gazette*.

(3) *Salem drainage scheme.*—The expenditure during the year was Rs. 283 and the total expenditure to end of the year amounted to Rs. 1,87,085. Orders of Government for the refund of the excess contribution under Government share were awaited for closing the accounts of the work.

(4) *Madura drainage works.*—The works were handed over to the municipality. The surplus articles have yet to be disposed of. A major portion of the articles was auctioned by the Executive Engineer.

III.—REVENUE.

Revenue in the Buildings and Roads Branch of the Public Works Department under XXX. Civil Works.

The principal sources of revenue under "XXX. Civil Works" are rents and sales of produce on Government lands, and they are booked in the accounts under the minor heads 'Rents' and 'Miscellaneous.' The receipt under the minor head 'Rents' includes rents of buildings, furniture and other special amenities, but excludes rents of lands. The receipts booked under the minor head 'Miscellaneous' include rents of lands, sales of produce, including wood, grass, fruits, etc., from compounds of Government buildings, credits realized by transfer of lands and buildings to other Governments and Commercial departments, supervision charges on sales of stores found surplus, receipts from inspections of electric installations, profits on stock due to revaluation, lapsed deposits, and fines and confiscated deposits which do not represent compensation for damage to works in progress. A comparison of the receipts under these minor heads during 1935-36 with those in 1934-35 is given below:—

Minor head.	Accounts, 1934-35.	Accounts, 1935-36.
	Rs.	Rs.
Rent	5,63,452	5,81,194
Miscellaneous	1,74,448	2,42,222

The variation under 'Miscellaneous' was due to the sale-proceeds of usufructs of trees during 1934-35 and to the transfer to the Government of India during 1935-36 of the Madras Lighthouse Workshops at a value of Rs. 27,063.

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IV.—GRANT AND OUTLAY.

The following figures illustrate the general progress of the work of the department :—

(a) Total expenditure on Provincial, Central, Local and Deposit works during the year, excluding Irrigation works, Establishment, Tools and Plant and Suspense—

LAKHS.		LAKHS.	
RS.		RS.	
1919-20	.. 65.10 (a)	1929-30	.. 120.10 (k)
1920-21	.. 79.08 (b)	1930-31	.. 134.15 (l)
1921-22	.. 83.44 (c)	1931-32	.. 98.74 (m)
1922-23	.. 68.07 (d)	1932-33	.. 76.49 (n)
1923-24	.. 73.36 (e)	1933-34	.. 59.89 (o)
1924-25	.. 75.85 (f)	1934-35	.. 57.58 (p)
1925-26	.. 82.75 (g)	1935-36	.. 63.83 (q)
1926-27	.. 92.58 (h)	1936-37 Budget	..
1927-28	.. 117.45 (i)	allotment ..	73.80 (r)
1928-29	.. 108.18 (j)		

- (a) Includes an expenditure of Rs. 1.67 lakhs under Civil officers.
 (b) Includes an expenditure of Rs. 2.18 lakhs under Civil officers.
 (c) Includes an expenditure of Rs. 3.89 lakhs under Civil officers.
 (d) Includes an expenditure of Rs. 5.82 lakhs under Civil officers.
 (e) Includes an expenditure of Rs. 4.59 lakhs under Civil officers.
 (f) Includes an expenditure of Rs. 2.33 lakhs under Civil officers.
 (g) Includes an expenditure of Rs. 2.04 lakhs under Civil officers.
 (h) Includes an expenditure of Rs. 1.49 lakhs under Civil officers.
 (i) Includes an expenditure of Rs. 1.43 lakhs under Civil officers.
 (j) Includes an expenditure of Rs. 1.11 lakhs under Civil officers.
 (k) Includes an expenditure of Rs. 0.9 lakh under Civil officers.
 (l) Includes an expenditure of Rs. 0.7 lakh under Civil officers.
 (m) Includes an expenditure of Rs. 0.86 lakh under Civil officers.
 (n) Includes an expenditure of Rs. 0.66 lakh under Civil officers.
 (o) Includes an expenditure of Rs. 0.77 lakh under Civil officers.
 (p) Includes an expenditure of Rs. 0.71 lakh under Civil officers.
 (q) Includes an expenditure of Rs. 0.69 lakh under Civil officers.
 (r) Includes an allotment of Rs. 0.64 lakh under Civil officers.

(b) Comparison of programme with execution—

Year.	Original budget programme.	Expenditure percentage of budget allotment.	
		More.	Less.
	RS.		
1919-20	.. 64,04,060	1.66	..
1920-21	.. 76,89,390	2.84	..
1921-22	.. 84,77,788	..	6.16
1922-23	.. 74,95,000	..	16.9
1923-24	.. 78,05,563	..	11.9
1924-25	.. 76,17,225	..	3.4
1925-26	.. 76,90,129	5.0	..
1926-27	.. 1,17,69,836	..	22.6
1927-28	.. 1,27,66,614	..	9.1
1928-29	.. 1,38,52,522	..	29.9
1929-30	.. 1,44,80,258	..	17.7
1930-31	.. 1,34,45,943	..	0.75
1931-32	.. 1,13,05,884	..	12.5
1932-33	.. 69,00,642	10.1	..
1933-34	.. 73,53,816	..	19.7
1934-35	.. 62,95,983	..	3.6
1935-36	.. 63,43,300	0.06	..

NOTE.—The figures include contribution funds but exclude funds at the disposal of Civil officers.

(c) Statement showing in abstract the appropriations and expenditure in 1935-36 including Irrigation works.

Finance heads.	Original appropriation.	Final appropriation.	Actual expenditure.
	RS.	RS.	RS.
<i>Works and Repairs.</i>			
<i>Buildings and Roads.</i>			
41. Civil Works—			
Central	76,200	83,370	80,960
Provincial—			
Reserved	12,17,400	11,40,400	11,50,198
Transferred	40,42,400	39,09,200	39,05,312
60. Civil Works not charged to Revenue—			
Reserved	..	100	103
Transferred	6,47,300	4,31,500	4,26,458
Non-Government Works—			
Other Deposit Works (Buildings and Roads and Irrigation)	..	..	7,16,130
Works executed under the Agency function as a standing arrangement—			
Postal and Telegraph Works	..	..	80,863
Military Works	..	..	2,447
Archaeological Works	..	..	20,084
Total, Civil Works, etc.	..	..	63,82,564

(c) Statement showing in abstract the appropriations and expenditure in 1935-36 including Irrigation works—*cont.*

Finance heads.	Original appropriation. RS.	Final appropriation. RS.	Actual expenditure. RS.
<i>Works and Repairs—Irrigation Works.</i>			
55. Construction of Irrigation, etc., works not charged to Revenue (less receipts on capital account) works other than Mettur	15,28,500	15,77,200	15,30,218
XIII. Irrigation—Working expenses ..	34,51,900	34,91,200	34,77,266
15. Other revenue expenditure financed from ordinary revenues (excluded and non-excluded areas)	23,09,800	22,95,700	22,70,196
16. Irrigation works, etc. (less receipts on capital account)	2,90,400	2,37,900	2,31,955
Total, Irrigation works	..	..	75,09,635
Total works and repairs—civil buildings and irrigation works	..	..	1,38,92,199
<i>Establishment.</i>			
15-A. (3) Special irrigation survey establishment (including English cost)	85,200	86,100	85,908
55. Construction—Other works—			
Kattalai and East Bank Canal ..	1,22,700	1,22,400	1,17,331
Pensionary charges	16,500	13,900	22,742
16. Construction—Other works—			
Pensionary charges	5,400	5,100	5,580
55. Construction—Unproductive minor irrigation works special accelerated programme	2,00,000	2,35,000	2,01,441
XIII. Special establishment debited to the working expenses of the Kistna Delta system and Divi Pumping system	7,600	7,600	7,578
Pensionary charges on <i>pro rata</i> , water regulation and special establishment.	84,200	79,000	1,21,996
Ordinary establishment—			
41. Civil Works—Provincial—Transferred	41,15,700	39,88,900	39,99,139
41. Civil Works—Provincial—Reserved including English cost	2,92,200	2,90,100	2,94,569
Total, Establishment	..	..	48,56,284
Deduct—English cost of stores and establishment—			
41. Civil Works—			
Reserved	4,000	4,000	3,977
Transferred	..	3,30,600	3,10,270
Deduct—Gain by exchange—			
41. Civil Works—Reserved	..	..	23
Transferred	..	1,700	1,612
Tools and Plant—			
41. Civil Works—Reserved (Gross) ..	35,800	33,300	32,825
Transferred (Gross)	86,600	79,300	79,234
15. Other revenue expenditure (Lower Bhavani project)	..	2,800	2,657
55. Construction (Kattalai and the East Bank canal)	1,700	500	541
55. Construction, Minor Irrigation works special accelerated programme	..	11,900	9,459
Suspense—			
Civil Works	..	3,60,000	3,50,425
55. Construction (Kattalai and East Bank canal)	500	100	1,231
Total	..	..	5,42,822
Grand total	..	..	1,82,05,661

V.—MANUFACTURING OPERATIONS.

MADRAS CIRCLE.

No manufacturing operations were conducted during the year under departmental supervision.

BEZWADA CIRCLE.

Articles manufactured at Divi Headworks under 'reinforced concrete' were (1) cement concrete pipes of sizes, (2) ferro-concrete pipes of sizes, (3) ferro-concrete mile-stones and furlong-stones.

DOWLAISHWARAM CIRCLE.

Godavari Headworks Division.—No manufacture of bricks, tiles or surki was done during the year.

Quarrying stone.—Supply of quarry materials was assigned on contract to different persons, the conveyance being given to one contractor. The operation charges to the end of 3/36 were Rs. 3,314 and the outturn was Rs. 1,815.

Godavari Western Division.—Manufacture of lime at Chettipet was started in January 1935 and the estimate for the year ending 30th November 1935 was worked out. The outlay on the operations to end of March 1936 was Rs. 948, the outturn being Rs. 960. The estimate for the year ending 30th November 1936 was also taken up and the outlay was Rs. 425.

VI.—WORKSHOPS.

DOWLAISHWARAM CIRCLE.

Dowlaishwaram Workshops.—The value of work done during the year was Rs. 2,74,707 against Rs. 1,03,281 of the previous year. The total number of jobs executed during the year was 573 against 586 in the previous year. Repairs to Lallacuts of Godavari Eastern, Godavari Central and Godavari Western divisions were carried out as usual. The workshops were inspected by the Inspector of Factories on 10th September 1935. The general and indirect charges levied were 33½ per cent and 25 per cent respectively.

The number of apprentices admitted for practical training in the shops was 8.

There were 12 accidents in the workshops during the year.

BEZWADA CIRCLE.

Public Works Workshops.—The value of work done during the year was Rs. 1,40,839 against Rs. 1,12,921 in the previous year. The output of the shops increased during the year, mainly because of the large number of jobs done for Kistna Special division. 872 work orders were placed during the year against 976 in the previous year. The number of private jobs executed during the year was 20 against 14 in the previous year.

The following revised rates of overhead charges approved in G.O. No. 1516 W., dated 12th July 1933, were in force during the year :—

General charges—21 per cent.
Indirect charges—24 per cent.

The profit on general charges to end of March 1936 was Rs. 5,592. A sum of Rs. 672-2-0 was debited to general charges during the year on account of apprentices undergoing training in the workshops.

No new machinery was purchased; ordinary tools which were worn out by use were renewed.

The shops were not inspected by the Inspector of Factories during the year.

MADRAS CIRCLE.

Public Works Workshops.—The value of outturn under all heads during the year was Rs. 2,12,075-7-2 against Rs. 1,72,550-5-0 of the previous year. The value of the plant and machinery at the beginning of the year was Rs. 1,37,127 and at the end of March 1936, was Rs. 1,20,449. The total number of work orders that were sanctioned during the year was 1,360 and those during the last quinquennium were as shown below :—

Year.	Number.	Year.	Number.
1930-31	1,764	1933-34	1,272
1931-32	1,525	1934-35	1,198
1932-33	1,189		

Mechanics were deputed in 116 cases for outdoor jobs under the supervision of an out-door foreman.

There were two minor accidents during the year.

The workshops were inspected by the Inspector of Factories on 10th December 1935.

The general and indirect charges levied were 31½ per cent and 80 per cent respectively.

VII.—STORES.

DOWLAISHWARAM CIRCLE.

Godavari Headworks division.—The reserve limit of stock is Rs. 88,000. The value of stock at the end of March 1936 was Rs. 91,759. The receipts and issues during the year amounted to Rs. 2,14,006 and Rs. 1,95,617, respectively, against Rs. 97,122 and Rs. 80,960 of the previous year, and they were on the increase. The increase was due to the major work "Replacing the 2 feet shutters of the Godavari Anicut by 3 feet shutters" and providing machinery for lifting the same being in progress during the year.

BEZWADA CIRCLE.

Public Works Stores, Bezwada.—The receipts and issues during the year amounted to Rs. 93,053 and Rs. 1,00,204, respectively. The balance of stock at the end of March 1936 was Rs. 59,911 against the sanctioned reserve limit of Rs. 96,000. The stock in divisional stores was verified by the stock verifier from 14th November 1935 to 18th January 1936.

MADRAS CIRCLE.

Public Works Stores, Madras.—The opening balance of stock for the year was Rs. 6,99,442-4-8 and the closing balance to end of March 1936 was Rs. 3,64,256-10-3. There has thus been a reduction in stock to the value of Rs. 3,35,185-10-5. The total amount of debits to stock during the year was Rs. 1,20,300 and the total amount of credits to stock during the year to end of March was Rs. 4,55,500.

An amount of Rs. 9,160 was realized by way of hire charges on heavy plant and machinery.

In accordance with G.O. No. 2777 W., dated 20th December 1933, the stock in Public Works Stores was classified as—

- (a) reserve stock,
- (b) serviceable surplus stock,
- (c) obsolete stock, and
- (d) unserviceable stock.

A major portion of item (b) and the whole of items (c) and (d) were disposed of by sales in public auction leaving a balance of Rs. 1,82,000 worth of stock under (b). The Stores division was amalgamated with the Public Works Workshops division on 1st November 1935.

The total amount of debits (receipts) to stock during the year (Rs. 1,20,300) was distributed as follows :—

	RS.
From the Director-General of Stores, Stores department	5,000
Local purchases	57,300
From other divisions, departments, etc.	9,000
Manufactured articles and miscellaneous receipts	16,200
Through adjustments	10,200
Handling charges	18,500
Working expenses of plant and machinery.	4,100
Total	1,20,300

VIII.—DIRECTION.

Mr. V. Hart, C.S.I., A.M.I.C.E., Chief Engineer (General, Buildings and Roads), proceeded on leave preparatory to retirement on 22nd February 1936 and M.R.Ry. Diwan Bahadur R. Narasimha Ayyangar, B.A., B.E., Chief Engineer for Irrigation, held charge of General and Establishment in addition to Irrigation from 22nd February 1936. Mr. M. O'Brien succeeded Mr. Hart as Chief Engineer (Buildings and Roads). M.R.Ry Rao Bahadur L. Venkatakrishna Ayyar, B.A., B.E., continued as Deputy Chief Engineer (General, Buildings and Roads) till 6th January 1936, when he was succeeded by M.R.Ry. Rao Bahadur N. Govindaraja Ayyangar, B.A., B.E. M.R.Ry. V. Ayyadurai Ayyar, B.A., B.E., continued as Deputy Chief Engineer for Irrigation, during the year.

Mr. R. Dann, F.R.I.B.A., M.T.P.I., A.I.I.A., held the post of Consulting Architect in addition to his own duties as Director of Town-Planning till 14th March 1936 afternoon when he took charge of the newly created post of Special Architect to Government, and Mr. J. Fernandez, A.I.I.A., who was Assistant Consulting Architect till 14th March 1936 was appointed to officiate as Consulting Architect from 15th March 1936.

M. O'BRIEN,
Chief Engineer, P.W.D. (General, Buildings and Roads).

Service heads.		Original works.		Repairs.		Total.	
		Appropriation.	Outlay.	Appropriation.	Outlay.	Appropriation.	Outlay.
		RS.	RS.	RS.	RS.	RS.	RS.
Central.							
Civil buildings	..	18,580	16,492	64,090	63,807	82,670	80,299
Communications	..	..	..	700	661	700	661
Establishment	..	..	..	..	..	14,356	13,973
Tools and Plant	..	..	..	..	..	1,218	1,213
Total, Civil Works—Central	..	..	..	..	..	..	96,146
Provincial.							
41. Civil Works—Reserved—							
Civil buildings	..	1,09,500	1,07,469	8,40,800	2,78,376	11,40,400	3,85,845
Communications	..	1,81,100	1,90,546	..	5,67,726	..	7,58,272
Miscellaneous	..	..	20	..	6,061	..	6,061
Establishment	..	..	..	..	..	(b) 2,90,100	(a) 4,01,678
Tools and Plant	..	..	..	..	..	(b) 33,300	(a) 33,374
Deduct—Gain by exchange on English trans-	..	..	..	..	..	..	..
actions	..	..	..	..	..	..	..
Deduct—English cost of Stores and Establish-	..	..	..	..	..	..	..
ment	..	..	..	..	..	..	..
Total. 41. Civil Works—Provincial—Reserved	..	..	..	..	..	..	..
						4,000	3,977
						..	15,81,250

(b) Represents gross grants.

(a) Net debit to Establishment and Tools and Plant.

Statement showing the appropriation and outlay during 1935-36 under all heads of Civil Works—cont.

Service heads.	Original works.			Repairs.			Total.	
	Appropriation.	Outlay.	RS.	Appropriation.	Outlay.	RS.	Appropriation.	Outlay.
Provincial—cont.								
41. Civil Works—Transferred—								
Civil buildings ..	16,95,200	16,66,878		16,91,200	12,06,091		39,09,200	28,72,969
Communications ..	5,22,600	5,22,911			4,89,450			10,12,361
Miscellaneous ..	200	159			19,823			(c) 19,982
Establishment (excludes District Board establishment)							39,88,900	13,77,320
Tools and Plant ..							79,300 (a)	59,436
Suspense ..							— 3,60,000	— 3,50,425
Deduct—Gain by exchange on English transactions ..							— 1,700	— 1,612
Deduct—English cost of Stores and Establishment ..							— 3,30,600	— 3,10,270
Total, 41. Civil Works—Transferred (net outlay in India) ..								46,79,761
60. Civil Works—Reserved—								
Civil buildings ..	100	103					100	103
Establishment ..								18
Total, 60. Civil Works—Reserved ..								121
60. Civil Works—Transferred—								
Civil buildings ..	4,31,500	4,26,458					4,31,500	4,26,458
Communications ..								85,288
Establishment ..								364
Tools and Plant ..								5,12,110
Total, 60. Civil Works—Transferred ..								8,14,652
Non-Government works.								
Deposit works (with centage) ..								

(c) Net debit to Establishment and Tools and Plant.

(b) Represents gross grants.

(c) Excludes the cost of District Board Engineers' establishment.

Statement showing a comparison of programme with execution by circles—Civil Works—1935-36.

Circles.	Provincial.				Central excluding Postal, Military and Archaeological.				Expenditure on non- Government works (Deposit works).
	Final appro- priation.	Expenditure.	Percentage of appropriation.		Final appro- priation.	Expenditure.	Percentage of appropriation.		
			More.	Less.			More.	Less.	
Waltair ..	RS. 6,52,800	RS. 6,62,140	..	1.4	RS. 2,320	RS. 2,492	..	6.9	RS. 4,952
Dowlaiswaram ..	2,99,600	3,03,357	..	1.2	3,100	3,085	.47	..	48,160
Boxwada ..	1,27,000	1,26,964	.03	..	1,410	1,361	3.6	..	2,12,796
Coimbatore ..	15,31,850	15,40,866	..	.55	17,560	17,311	1.4	..	31,582
Madras... ..	16,08,050	19,05,324	..	1.55	34,130	34,104	.076	..	1,00,791
Tanjore... ..	1,29,400	1,28,808	.46	..	3,380	3,370	0.29	..	46,902
Trichinopoly ..	2,89,750	3,81,994	..	24.2	15,540	13,576	14.5	..	2,70,708
Civil officers ..	71,150	69,321	2.56	..	..	..	..	..	..
Electrical Engineer ..	3,40,000	3,63,297	..	6.4	5,930	5,450	8.8	..	248
Total ..	50,49,600	54,82,071	..	7.875	83,370	80,749	3.1	..	7,16,139

APPENDIX B.

Statement showing the length of road communications maintained by the public authorities during 1935-36 excluding the Corporation of Madras.

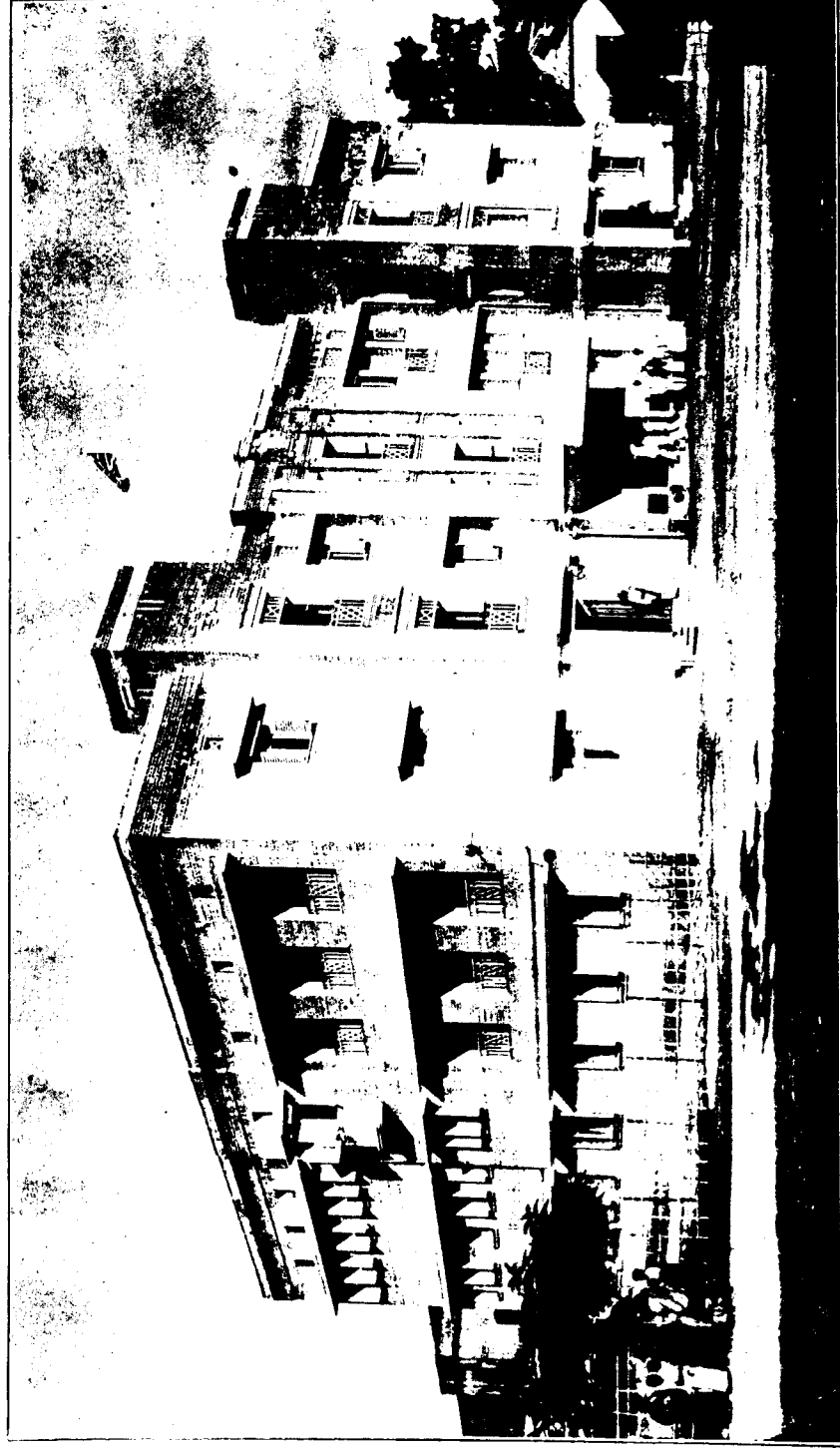
Name of division.	Name of district.	Length of roads maintained by the Public Works Department.				Length of roads maintained by local authorities.				Total.	
		Metalled.		Unmetalled.		Metalled.		Unmetalled.		Metalled.	Unmetalled.
		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
		M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.		
Ganjam ..	..	..	..	..	..	..	..	..	..	..	..
Vizagapatam ..	..	..	..	..	..	..	..	..	..	..	..
Koraput ..	..	..	..	..	..	..	..	..	..	..	..
Godavari Headworks ..	..	..	..	..	..	..	..	..	..	..	..
Do. Eastern ..	..	..	..	..	..	..	..	..	..	..	..
Do. Northern ..	..	..	..	..	..	..	..	..	..	..	..
Do. Central ..	..	..	..	..	..	..	..	..	..	..	..
Do. Western ..	..	..	..	..	..	..	..	..	..	..	..
Kistna Central ..	..	..	..	..	..	..	..	..	..	..	..
Do. Western ..	..	..	..	..	..	..	..	..	..	..	..
Guntur ..	..	..	..	..	..	..	..	..	..	..	..
Nellore ..	..	..	..	..	..	..	..	..	..	..	..
Bellary ..	..	..	..	..	..	..	..	..	..	..	..
Madanapalle ..	..	..	..	..	..	..	..	..	..	..	..
Kurnool ..	..	..	..	..	..	..	..	..	..	..	..
Chingleput ..	..	..	..	..	..	..	..	..	..	..	..
South Presidency ..	..	..	..	..	..	..	..	..	..	..	..
Salem ..	..	..	..	..	..	..	..	..	..	..	..
Coimbatore ..	..	..	..	..	..	..	..	..	..	..	..
West Coast ..	..	..	..	..	..	..	..	..	..	..	..
North Arcot ..	..	..	..	..	..	..	..	..	..	..	..

Statement showing the length of road communications maintained by the public authorities during 1935-36 excluding the Corporation of Madras—cont.

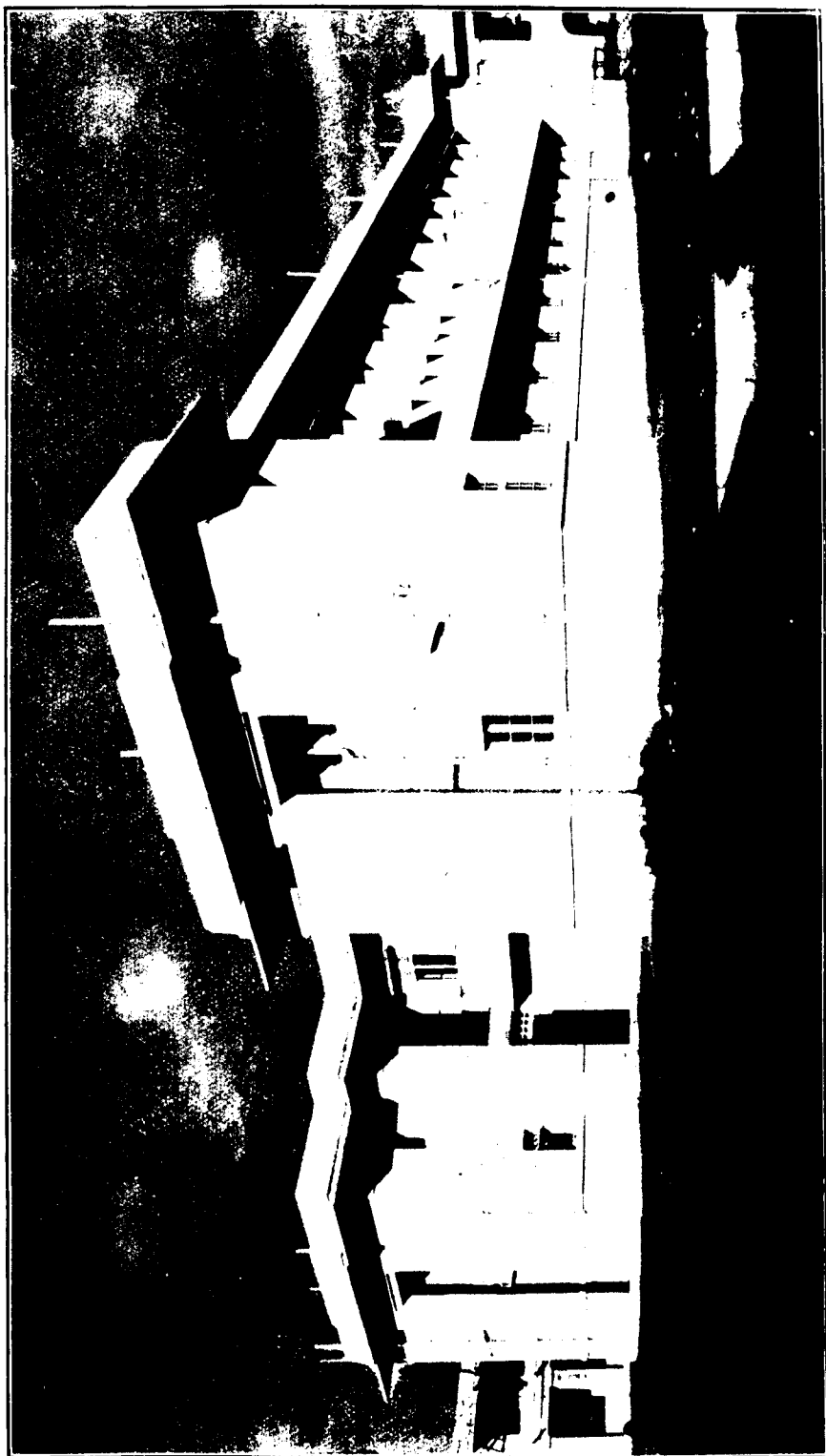
Name of division.	Name of district.	Length of roads maintained by the Public Works Department.				Length of roads maintained by local authorities.				Total.	
		Metalled.		Unmetalled.		Metalled.		Unmetalled.		Metalled.	Unmetalled.
		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)		
		M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.	M. F.		
South Arcot ..	..	..	..	..	..	..	..	..	..	..	..
River Conservancy ..	..	..	..	..	..	..	..	..	..	..	..
Cauvery ..	..	..	..	..	..	..	..	..	..	..	..
Vennar ..	..	..	..	..	..	..	..	..	..	..	..
Trichinopoly ..	..	..	..	..	..	..	..	..	..	..	..
Periyar ..	..	..	..	..	..	..	..	..	..	..	..
Ramnad ..	..	..	..	..	..	..	..	..	..	..	..
Tinnevely ..	..	..	..	..	..	..	..	..	..	..	..
Total ..	..	1,018	4	890	0	24,434	6	14,170	5	25,453	2
										15,060	5

* Cantonments.

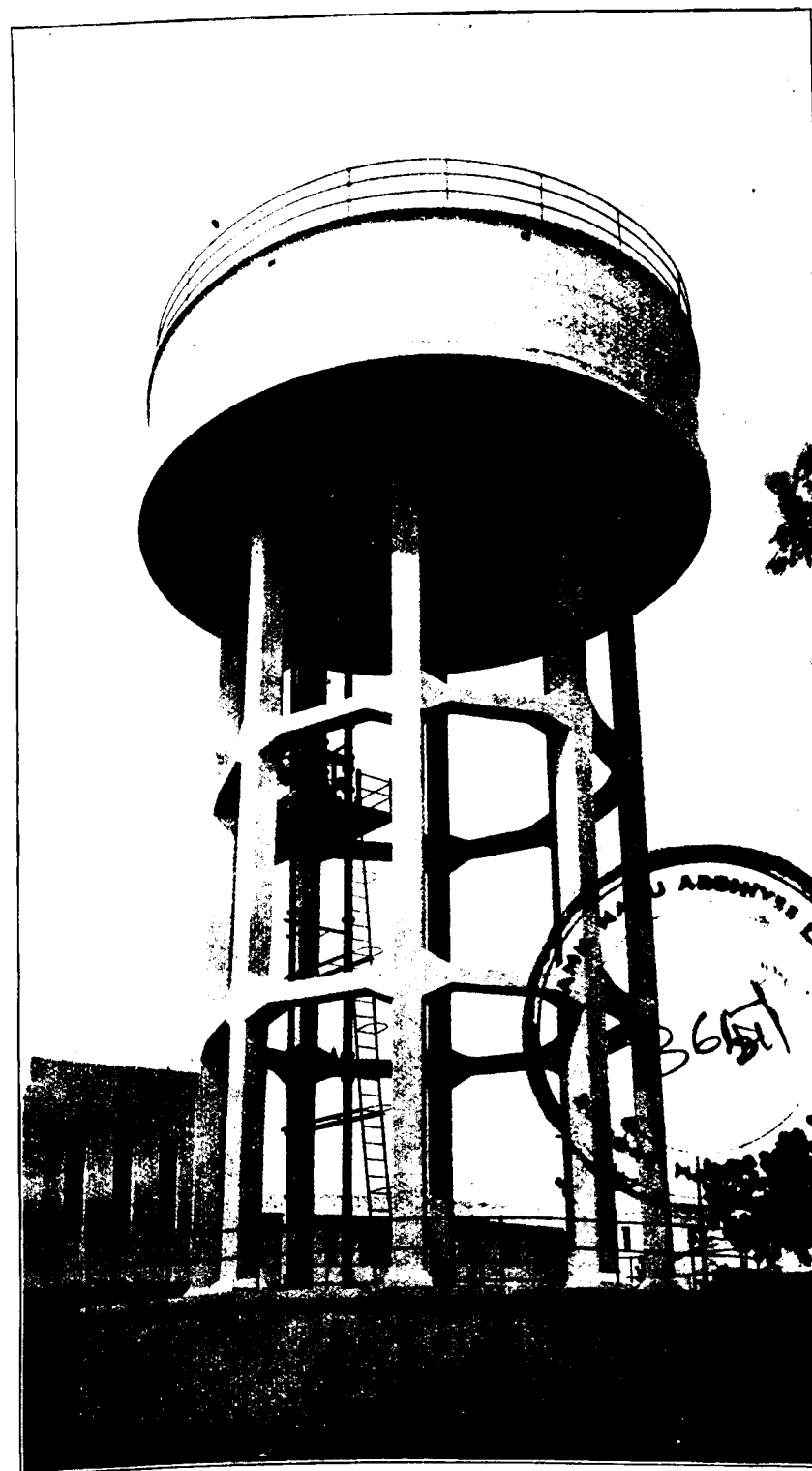
N.B.—A length of 3 furlongs 470 feet of metalled road and 2 furlongs 480 feet of tar macadam road of this department is being maintained by the Corporation of Madras for which an annual contribution of Rs. 1,000 is being paid to the Corporation.
About 1,908 miles of road were maintained by this department and the cost of their maintenance during the year was about Rs. 10·87 lakhs.



1. HIS ROYAL HIGHNESS THE PRINCE OF WALES HOSPITAL, MADRAS



2. VENEREAL BLOCK, GENERAL HOSPITAL, MADRAS.



3. REINFORCED CONCRETE RESERVOIR, GENERAL HOSPITAL, MADRAS.