



PUBLIC WORKS DEPARTMENT
MADRAS PRESIDENCY

ADMINISTRATION REPORT

FOR THE YEAR

1936-37

PART I—WITH A DETAILED REVIEW OF CIVIL WORKS
(Part II—Irrigation will be issued separately)

MADRAS

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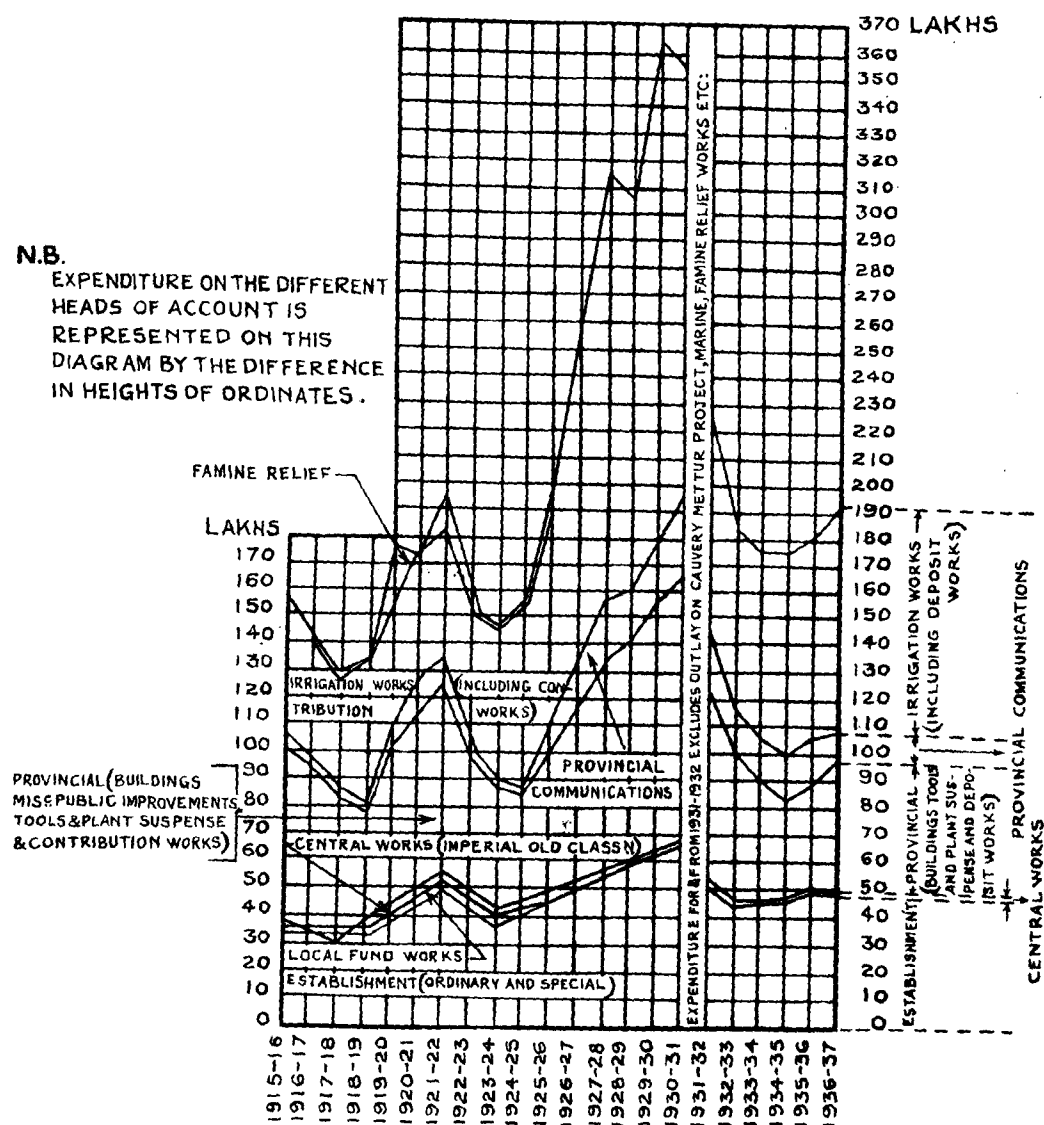
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DIAGRAM SHEWING PUBLIC WORKS EXPENDITURE



PUBLIC WORKS DEPARTMENT, MADRAS PRESIDENCY

ADMINISTRATION REPORT

FOR THE YEAR 1936-37

ADDITIONS AND ALTERATIONS TO TERRITORIAL CHARGES.

DOWLAISHWARAM CIRCLE.

A special temporary subdivision was formed on 1st October 1936 with headquarters at Cocanada for the construction of buildings for the new Headquarters Hospital, Cocanada. The special subdivision formed in February 1936, for replacing the 2 feet falling shutters over the Godavari Anicut by 3 feet shutters, was closed in June 1936. The special subdivision formed in 1935 for the execution of Vemuladevi and Losari Projects was temporarily closed on 17th October 1936 pending orders of Government on the terms of the agreement relating to acquisition of the lands of the Circars Agricultural Development Corporation. It was re-opened in January 1937. Due to the formation of the Orissa Province, the Chicacole subdivision was transferred from the Ganjam division to the Vizagapatam division from 1st April 1936 and an additional section, called Sompeta section, was formed and attached to this subdivision. The Anantagiri section with some of the Agency roads was transferred on 1st April 1936 from the Koraput division to the Parvatipur subdivision.

BEZWADA CIRCLE.

The subdivision formed in June 1935 for the execution of minor irrigation works under the special accelerated and wide-spread scheme of improvements, in the Kistna district was closed on 15th October 1936. A special subdivision was formed in June 1936 for excavating the Appapuram channel. The Aque-duet subdivision of the Kistna Special division was closed on 31st August 1936.

MADRAS CIRCLE.

A new division called the Central Presidency division was formed on 14th December 1936 to afford relief to the North and South Presidency divisions and to push through major works more rapidly. A Road division was formed on 17th December 1936 for laying experimental surfacings on the Great Northern Trunk Road from M. 4-5-600 to M. 11-6-0.

The special subdivision for the construction of wireless buildings at Tiruvottiur was closed on 15th April 1936.

The sub-works done during the year were—

- (1) Improvements to the radiograph and X-ray block.
- (2) Providing water-supply arrangements from the municipal main. Municipal supply was laid to the hospital and two overhead mild steel tanks were erected to hold a storage for the hospital requirements.
- (3) *Remodelling of the General Hospital, Madras.*—Estimate Rs. 39,29,000. T. S. Rs. 38,60,008. Outlay during the year Rs. 1,46,725. Expenditure to end of the year Rs. 28,62,009.

The following sub-works were in progress:—

- (a) Some extra items to the new out-patient department.
- (b) Finishing items of the new venereal block—Estimate Rs. 2,28,000.
- (c) Some little extra work in the new X-ray Institute.
- (d) A few finishing items in the new operation and surgical wards.
- (e) A new kitchen and store block.
- (f) Improvements to the main building.
- (g) Some little extra work in the laundry—outlay during the year Rs. 5,402.
- (h) Sanitary installation, drainage and water-supply scheme—Estimate Rs. 4,43,000. The main drainage, main water-supply with a well and a reinforced concrete overhead reservoir have been completed.
- (4) *Construction of a combined administrative block for the General Hospital and Pathological Institute for the Medical College, Madras.*—Estimate Rs. 12,00,000. Outlay during the year Rs. 37,036. Expenditure to end of the year Rs. 8,95,048.

Of the improvements to the various blocks of the old Medical College buildings included in the scheme, a substantial portion was done during the year.

- (5) *Installation of a combined gas plant for the Medical College and the General Hospital.*—Estimate Rs. 2,28,300. W.S. Rs. 1,10,000. Outlay during the year Rs. 883. Outlay to end of the year Rs. 1,01,403. The gas is being laid as the improvements to the Medical College progress and as needs dictate.

- (6) *Remodelling of the Penitentiary.*—A.S. Rs. 13,07,678. T.S. Rs. 7,07,090. Outlay during the year Rs. 69,734. To end of the year Rs. 3,99,476. The main entrance block was completed, and building of 72 cells for under-trial prisoners was in progress.

- (7) *Remodelling of the Government Press, Mint Buildings.*—Estimate Rs. 5,92,000. Outlay during the year Rs. 74,788 and to end of the year Rs. 1,46,159. Foundations and basement were completed and all the stanchions and R.S. beams were erected. The superstructure is going on.

- (8) *Construction of a Natural Science block for the Presidency College, Madras.*—Estimate Rs. 5,38,000. W.S. Rs. 4,80,000. Outlay during the year Rs. 28,000. Expenditure to end of the year Rs. 2,10,457.

Special reinforced concrete foundations had been designed; they consisted of inverted T beams and slabs; they were all laid and the ground floor was put up. A start was made on the laboratory fittings. The underground drainage and water-supply were fully laid.

- (9) *Construction of an additional building for the Lady Willingdon Training College, Madras.*—Estimate Rs. 2,47,170. Outlay during the year Rs. 3,007. Outlay to end of the year Rs. 3,435. All that was done was to build the compound wall; the main building has to wait the transfer of the fishermen's village to a fresh site.

- (10) *Construction of a new His Royal Highness The Prince of Wales Hospital for children of 50 beds in the compound of the Victoria Caste and Gosha Hospital.*—Estimate Rs. 2,31,950. Contribution received to end of 31st March 1937 Rs. 1,94,957. Outlay including centage charges during the year Rs. 26,524 and that to end of the year Rs. 1,57,826. The work is practically finished.

- (11) *Construction of new residences at Adyar for the Gazetted Officers in the Madras City.*—Estimate Class I residences Rs. 2,19,000; Class II residences Rs. 1,68,000; Class III residences Rs. 51,900. Outlay during the year Rs. 45,057. Expenditure to end of the year Rs. 50,057.

Class I residence.—Foundations were laid for two out of the three residences and foundations for the third started.

Class II residences.—Superstructure and first-floor of residences 1 and 2 were completed. No. 3 residence was brought up to the first-floor level.

Class III residences.—There are two of them to be built and they were going on.

- (12) *Construction of buildings for the Stanley Medical School.* Rs. 1,81,000.—Outlay during the year Rs. 15,180; to end of the year Rs. 15,333. A start was made in October 1936 and the walls were raised to roof level.

- (13) *Extensions to the Madras Record office.*—Estimate Rs. 1,80,100. Outlay during the year Rs. 5,089. To end of the year Rs. 5,598. Foundations were laid.

- (14) *Construction of a Septic ward of 52 beds in the Government Rayapuram Hospital.*—Estimate Rs. 1,40,000. Outlay to end of the year Rs. 335.

- (15) *Additions and alterations to the Senate House for the temporary accommodation of the Madras Legislative Assembly.*—Estimate Rs. 1,26,000. Outlay during the year Rs. 77,077.

The Senate House was handed over by the University of Madras on 1st October 1936. The whole building was thoroughly overhauled and extensive repairs and colour washing, stenciling, distemping and painting were carried out.

The whole building is now equipped with modern sanitation. A presidential chair of oriental pattern made in teakwood has been installed in the Council Hall. On the dais, two boxes, one for His Excellency the Governor and the other for the distinguished visitors, have been put up with glazed teakwood panelling and silk curtains. Electric fittings have been remodelled to suit the arrangements.

(16) *Construction of buildings for the shortwave wireless receiving station with quarters at Tiruvottiyur.*—Estimate Rs. 1,24,730. Outlay during the year Rs. 14,231. To end of the year Rupees 89,839. Motor garages were completed. Water-supply scheme was in good progress.

(17) *Acquisition of the buildings of the Madras Volunteer Guards Institute of the Traffic and Licensing department of the Madras City Police.*—Estimate Rs. 1,17,200. Expenditure during the year Rs. 5,944. Outlay to end of the year Rs. 1,16,369. The work was practically completed.

(18) *Construction of a building for the correspondence branch of the Chingleput Collector's office at Saidapet.*—Estimate Rupees 1,06,000. Outlay during and to the end of the year Rs. 30,092. Walls were raised up to first floor level.

(19) *Additions and alterations to the Government House, Guindy.*—Estimate Rs. 1,00,000. Outlay during the year and that to the end of the year were Rs. 9,986 and Rs. 10,090 respectively.

(20) *Construction of new buildings and compound wall for the Public Works Workshops, Madras.*—Estimate Rs. 4,19,510. Outlay during the year Rs. 13,009. Expenditure to end of the year Rs. 4,19,753. The main building was completed.

(21) *Construction of quarters for the Harbour Police at Tondiarpet.*—Estimate Rs. 1,27,000. Expenditure during the year Rs. 70,578, and that to the end of the year Rs. 75,521. The work was completed except sanitary fittings and a few other sundry items.

(22) *Extensions to the Electrical Engineering Laboratory of the College of Engineering, Guindy.*—Estimate Rs. 1,16,500. Expenditure during the year Rs. 15,130 and to end of the year Rs. 94,104. The sanitary works were completed and electrical fittings were nearing completion. Reinforced concrete gallery for students was completed except for C-I seats and woodwork.

(23) *Construction of additional buildings for the Government Museum, Madras.*—Estimate Rs. 1,15,000. Outlay during the year Rs. 9,900. Expenditure to end of the year Rs. 10,030.

(24) *Construction of a Municipal High School, Anantapur.*—Estimate Rs. 1,38,800. W.S. Rs. 1,25,000. Outlay during the year Rs. 46,569 and that to end of the year Rs. 1,15,529. The work was almost completed.

(25) *Construction of quarters and other buildings for the Malabar Special Police.*—Estimate Rs. 8,32,204. Buildings in the Pandikkad camp were in progress during the year. The work was almost completed. The outlay incurred during the year was Rs. 68,039 and that to end of the year was Rs. 6,71,737.

(26) *Construction of a combined court-house for the Sub-Judge and District Munsif, Tuticorin.*—Estimate Rs. 1,21,000. Workslip Rs. 1,08,090. Expenditure on the work during the year and to the end of the year was Rs. 14,993. The work was started in July 1936. The walls of the main building were raised to 12 feet and lintels over doors and windows laid. The ryots-shed and cattle-shed were being put up.

(27) *Construction of a new Headquarters Hospital at Madura.*—Estimate Rs. 15,99,000. Expenditure during the year Rupees 1,25,815 and that to end of the year Rs. 5,19,780. Sanitary fittings were fixed to the east and west blocks and nurses quarters. The compound wall, and reinforced concrete roof of the infectious diseases ward, and the garage and ambulance car-sheds were completed. The foundation for the reinforced concrete underground reservoir was laid.

(28) *Construction of a combined court-house for the Sub-Judge and the District Munsif, Trichinopoly.*—Estimate Rs. 1,08,000. Expenditure during the year Rs. 55,370. Expenditure to end of the year Rs. 58,370. The main building was mostly completed during the year. Finishing items such as plastering, and fixing the record racks, construction of a staircase, forming roads and gardens, etc., will be completed in 1937-38.

COMMUNICATIONS.

Roads.

(1) *Extension of Vizagapatam-Anantagiri Road from M. 64/5 to Araku.*—Estimate Rs. 2,57,027. The outlay on the work during the year was Rs. 2,525 and that to end of the year was Rs. 1,19,722. The work was completed. Payment of land compensation charges yet remains to be made.

(2) *Improvements to the Nilambur-Kalikavu-Karuvarakundu Road.*—Outlay during the year Rs. 14,025. Outlay to end of the year Rs. 2,18,286. All work except construction of bridges across the Kotapuzha and Cheripuzha was completed. The Kotapuzha bridge and the approach road connected with it were in progress.

(3) *Experimental road surfacings on the Great Northern Trunk Road from mile 4-5-600 to 11-6-0.*—Estimate Rs. 3,27,000. Preliminaries such as taking longitudinal and cross sections of the road at close intervals, examination of width and depth of metal crest and foundation of road and questions of extending culvert and strengthening the road dam received attention. An expenditure of Rs. 702 was incurred.

Bridges and Causeways.

(1) *Construction of a new bridge across the Eranjolly river on the Tellicherry-Coorg Road.*—Outlay during the year Rs. 6,142 and that to end of the year Rs. 8,092. The work done during the year was forming approach roads and sinking reinforced concrete wells.

(2) *Improvements to the Kundotti-Areacode Road and construction of a bridge across the Kadangalur Thodu.*—Expenditure during the year Rs. 35,008, and that to end of the year Rs. 37,005. The improvements to the road proper were almost completed, and the sinking of well foundations for the bridge was in progress.

(3) *Reconstruction of the Aliyar bridge on the Anamalai Ghat Road.*—This is a work to be financed from the Road Development Fund. Administrative approval to the work was accorded in December 1936. Tenders were called for and contract arranged, and Rs. 2,995 was spent on preliminary work.

WATER-SUPPLY SCHEMES.

(1) *Virdunagar Water-supply Scheme.*—Estimate Rs. 7,26,000. Workslip Rs. 6,75,000. Outlay during the year Rs. 1,38,541 and to end of the year Rs. 4,80,033. Pumping main for about 12 miles was laid during the year. Advance water-supply was given direct from the pumping main through 10 double tap fountains with the help of an old crude oil engine and centrifugal pump obtained for the work. The town had the benefit of a partial water-supply from January 1937. Further work is progressing rapidly. The main items have been completed.

(2) *Arkonam Water-supply Scheme.*—Estimate Rs. 1,92,400. All the pipes and specials required for the scheme were purchased. Contracts for the construction of a reinforced concrete reservoir and for other items of work were arranged. The outlay incurred during the year was Rs. 60,484 and the total expenditure to end of the year was Rs. 96,397.

(3) *Tiruvallur Water-supply Scheme.*—Estimate Rs. 1,32,400. Contribution for the year Rs. 1,000. Outlay during the year Rs. 2,244 and to end of the year Rs. 3,244.

The suction well was partly constructed. The third set of yield tests was also completed. Further work suspended pending decision of the Sanitary Engineer on whether the tests showed a satisfactory yield, such as to justify proceeding with the work as sanctioned.

(4) *Improvements to Nellore Water-works.*—Estimate Rs. 96,000. Expenditure during the year Rs. 393. Expenditure to end of the year Rs. 52,924. The whole work except infiltration gallery including laying of pipe connexions was completed during 1935-36. The infiltration gallery will be begun in the next dry season. As it is in the bed of the river it cannot be done at any other time.

(5) *Saidapet Water-supply Scheme—Main Scheme.*—Estimate Rs. 2,90,700. Contribution for the year Rs. 12,000. Outlay during the year Rs. 20,921. Outlay to end of the year Rs. 2,82,242. The construction of the engine house, installation of electric pumps, fitting up of pipe connexions and electrification of the engine-house were completed during the year. The main scheme was completed and formally opened on 24th April 1937. There are only a few small items remaining to be done.

Saidapet Water-supply Scheme.—Extension to Mambalam, Mettupalayam, Little Mount, Guindy, etc. Estimate Rs. 60,570. Contribution for the year Rs. 14,000. Outlay during the year Rs. 24,270. Outlay to end of the year Rs. 40,257. The laying of pipe and construction of the fountains in the Mambalam area were nearly completed and the work in Little Mount and Guindy area was in progress.

(6) *Palacole Water-supply Scheme.*—Revised Estimate Rs. 4,22,500. Outlay during the year Rs. 4,530. Expenditure to end of the year Rs. 4,21,829. The scheme started to function during 1927-28 and the work according to the original estimate was completed in 1933-34. Additional tools and plant required were obtained and handed over to the municipality. Estimates for constructing an engine-shed for the pumping plant and also iron grating for the enclosure to chlorofeeder were sanctioned. Construction of an engine-shed for the pumping plant was nearing completion. When these small items are finished the work will be completed in all respects.

(7) *Peddapur Water-supply Scheme.*—Revised estimate Rs. 1,07,460. The outlay on the work including centage charges to end of the year was Rs. 778-8-6. No work can be done until the land required is acquired. Acquisition proceedings are going on slowly.

DRAINAGE SCHEMES.

(1) *Bezwada Drainage Scheme.*—Estimate Rs. 7,54,800. The expenditure during the year was Rs. 71,098 and the total expenditure incurred on the scheme to end of the year was Rs. 5,18,250.

Construction of open drains in Block No. III and sewage farm were in progress during the year. The following items of the scheme were completed during the year:—

- (1) Pump house.
- (2) 14 inches cast iron pumping main.
- (3) Sewage pumping plant.
- (4) Providing additional open drains in Block No. II.

(2) *Bucepet Drainage Scheme of the Bellary Municipality.*— Estimate Rs. 4,39,900. Outlay during the year Rs. 76,383. Outlay to end of the year Rs. 76,685.

The work on the outfall and intercepting sewers was completed. The working estimate for the sewage farm was approved, and is now going on.

III.—REVENUE.

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

The principal sources of revenue under “XXXIX—Civil Works” are rents and miscellaneous receipts such as sales of produce on Government lands, and they are booked in the accounts under the minor heads “Rents” and “Miscellaneous.” The receipts under the minor head ‘Rents’ comprise rents for residential and non-residential buildings in charge of the Public Works Department, including rents for furniture and other special amenities, recovered from the occupying Government servants from Provincial Commercial departments, such as the Irrigation, Electricity, Forest and Cinchona departments, and from departments of the Central Government, local bodies and others. The receipts credited to the minor head ‘Miscellaneous’ are rents from land as distinguished from rents for buildings; sale-proceeds of produce such as wood, grass, fruits, vegetables, etc., from the compounds of Government buildings and buildings taken on lease when such produce is Government property and is not grown by the occupants; sale-proceeds of Public Works Department buildings transferred to Provincial Commercial departments or Central departments; supervision charges on sales of stock; value of stores found surplus; profits on stock due to revaluation; lapsed tender and other deposits; fines and deposits of contractors confiscated for reasons other than damage to works.

A comparison of the receipts under these minor heads during 1936–37 with those in 1935–36 is given below:—

Minor head.	Accounts, 1935–36.	Accounts, 1936–37.
	RS.	RS.
Rents	5,81,194	5,59,425
Miscellaneous	2,48,565	2,03,130

There was a credit of Rs. 27,063 during 1935–36 on account of the transfer of the Madras Lighthouse Workshops to the Government of India and this accounts partly for the decrease under the minor head ‘Miscellaneous’ during 1936–37 as compared with 1935–36.

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 ..	59.09 (r)
1927–28 ..	117.45 (i)	1937–38 Budget	
1928–29 ..	108.18 (j)	allotment ..	78.01 (s)

- (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 expenditure of Rs. 0.64 lakh under Civil officers.
 (s) Includes an allotment of Rs. 0.24 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	..
1936-37 ..	73,15,744	..	19.2

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

(c) Statement showing in abstract the appropriation and expenditure in 1936-37 including Irrigation works.

Finance heads.	Original appropriation.	Final appropriation.	Actual expenditure.
	RS.	RS.	RS.
<i>Works and Repairs—Buildings and Roads.</i>			
41. Civil Works—			
Central	82,300	83,753	83,426
Provincial—			
Reserved	6,85,200	6,73,200	6,77,638
Transferred	45,32,100	36,05,700	35,42,221
60. Civil Works not charged to Revenue—			
Reserved	2,14,500	93,500	92,228
Transferred	15,93,500	8,12,900	8,07,198
Non-Government Works—Other Deposit Works (Buildings and Roads and Irrigation)	..	..	6,52,280
Works executed under the Agency func- tion as a standing arrangement—			
Postal and Telegraph Works	..	..	19,074
Military Works	..	..	5,045
Archaeological Works	..	..	29,867
Total, Civil Works, etc.	..	..	59,08,977

(c) Statement showing in abstract the appropriation and expenditure in 1936-37 including irrigation works—cont.

Finance heads.	Original appropriation.	Final appropriation.	Actual expenditure.
	RS.	RS.	RS.
<i>Works and Repairs—Irrigation Works.</i>			
55. Construction of Irrigation, etc., works not charged to Revenue (<i>less</i> receipts on capital account) works other than Mettur	14,59,600	13,29,100	13,25,920
55. Construction, etc.—Minor Irrigation works (<i>less</i> receipts on capital account)	14,45,000	16,18,100	16,17,423
XIII. Irrigation—Working expenses ..	30,94,000	29,02,300	28,97,416
15. Other revenue expenditure financed from ordinary revenues (excluded and non-excluded areas)	21,27,500	21,11,700	25,04,850
16. Irrigation works, etc. (<i>less</i> receipts on capital account)	1,95,600	1,76,900	1,70,643
Total, Irrigation works	..	..	85,16,252
Total works and repairs—civil buildings and irrigation works	..	..	1,44,25,229
<i>Establishment.</i>			
15-A. (3) Special irrigation survey estab- lishment (including English cost)	31,300	29,200	30,417
55. Construction—Other works—			
Kattalai and East Bank Canal ..	96,100	94,100	85,556
Pensionary charges	17,700	21,500	27,337
16. Construction—			
Pensionary charges	4,200	4,100	4,969
55. Construction—Unproductive minor irrigation works special accelerat- ed programme	3,60,200	3,62,500	3,55,847
XIII. Special establishment debited to the working expenses of the Kistna Delta system and Divi Pumping system	3,200	3,000	3,005
Pensionary charges on <i>pro rata</i> water regulation and special establishment.	69,700	95,700	1,05,972
Ordinary establishment—			
41. Civil Works—Provincial Reserved	1,47,000	1,50,800	1,50,753
41. Civil Works—Provincial—Trans- ferred (including English cost) ..	39,21,000	41,12,000	* 40,48,500
Total, Establishment	..	..	48,12,356
Deduct English cost of stores and establishment—			
41. Civil Works—			
Reserved	8,000	9,000	8,658
Transferred	1,99,900	2,02,600	1,68,379
Deduct Gain by exchange	..	..	..
41. Civil Works—Reserved	..	..	44
Transferred	..	1,000	917
Tools and Plant			
41. Civil Works—Reserved (Gross) ..	7,500	1,300	1,134
Transferred (Gross)	83,300	89,500	88,581
15. Other revenue expenditure (Lower Bhavani and Tungabhadra projects) ..	..	9,300	9,084
55. Construction, etc.—East Bank canal.	1,000	1,000	1,088
55. Construction, etc.—Minor Irrigation works	400	2,900	2,201
Suspense	..	..	..
Civil Works	1,50,000	84,600	65,686
55. Construction, etc.—East Bank canal.	..	..	206
Total	..	..	1,41,390
Grand total	..	..	1,90,96,195

* Excludes District Board Establishment.

V.—MANUFACTURING OPERATIONS.**MADRAS CIRCLE.**

There were no manufacturing operations during the year. The new brickfields site at Aminjikarai was leased and the question of selling a portion of the site for house-sites was under the consideration of the Collector.

BEZWADA CIRCLE.

Several classes of articles were manufactured such as cement concrete pipes, F.C. mile-stones, furlong-stones, F.C. pipes, etc.

DOWLAISHWARAM CIRCLE.

Godavari Headworks Division.—There was no manufacture during the year.

Godavari Western Division.—Manufacturing lime at Chettipeta was carried out. The outlay on the operations to end of March 1937 was Rs. 964 and the outturn was Rs. 1,089 resulting in a profit of Rs. 125.

The supply of quarry materials was let on contract. The conveyance was also let on contract. The operation charges to end of March 1937 were Rs. 1,531 and the outturn Rs. 2,178.

VI.—WORKSHOPS.**DOWLAISHWARAM CIRCLE.**

The value of work done during the year was Rs. 1,51,360 against Rs. 2,74,707 of last year. The greater outturn in 1935-36 was due to the fact that the new 3 feet shutters for the Godavari Anicut were being made in that year.

The total number of jobs taken up in the year was 816 against 573 of the previous year.

New machinery to the value of Rs. 1,055 was purchased during the year.

The shops were inspected by the Inspector of Factories on 11th May 1936 and 9th October, 1936.

Four apprentices were admitted for practical training.

There were five accidents of which one was serious. This however happened outside the shops though on a workshop job. A compensation of Rs. 588 was awarded to the injured man.

BEZWADA CIRCLE.

Public Works Workshops.—The value of work done during the year was Rs. 1,06,297 as found below :—

	1934-35.	1935-36.	1936-37.
(1) Provincial works	11,951	11,530	17,000
(2) Works other than Provincial	1,00,970	1,29,309	89,297
Total	1,12,921	1,40,839	1,06,297

The output of the shops decreased during the year due to a slackening off in the amount of irrigation work in the circle. Eight hundred and forty-five work orders were placed of which 15 were private jobs.

The following revised rates of general and indirect charges, approved in G.O. Ms. 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 the end of March 1937 was Rs. 2,381. A sum of Rs. 598-12-0 was debited to general charges on account of apprentices undergoing training in the workshops.

The 12 horse-power engine No. M. 708 continued to run the shops.

No new machinery was purchased. Some of the surplus machinery from division was transferred to the shops.

The shops were inspected by the Inspector of Factories in March 1937.

MADRAS CIRCLE.

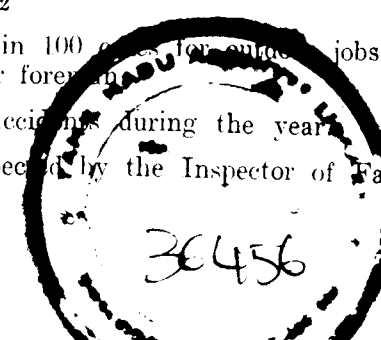
Public Works Workshops.—The value of outturn under all heads during the year was Rs. 2,37,898-6-9 against Rs. 2,12,082-10-0 during 1935-36. The value of tools and plant at the beginning of the year was Rs. 1,20,450 and at the end of the year Rs. 1,28,471. The total number of work orders that were sanctioned during the year was 1,286 and those during the last quinquennium were as shown below :—

Year.	Number.	Year.	Number
1931-32	1525	1934-35	1193
1932-33	1189	1935-36	1360
1933-34	1272		

Mechanics were deputed in 100 cases for outdoor jobs under the supervision of an outdoor foreman.

There were two minor accidents during the year.

The workshops were inspected by the Inspector of Factories in October 1936.



VII.—STORES.**DOWLAISHWARAM CIRCLE.**

The reserve limit of stock was Rs. 88,000. The value of stock at the end of March 1937 was Rs. 79,118. The receipts and issues during the year amounted to Rs. 1,08,910 and Rs. 1,21,431 respectively against Rs. 2,14,006 and Rs. 1,95,417 of the previous year.

BEZWADA CIRCLE.

The receipts and issues during the year amounted to Rs. 82,947 and Rs. 73,018 respectively. The balance of stock at the end of March 1937 was Rs. 67,253 against the sanctioned reserve limit of Rs. 96,000. The stock in the Divisional Stores was verified by the stock verifying officer from 14th November 1935 to 18th January 1936.

MADRAS CIRCLE.

Public Works Stores, Madras.—The opening balance of stock for the year was Rs. 3,64,200 and the closing balance Rs. 3,21,300. There was thus a reduction of Rs. 42,900 during the year. Out of this, the value of surplus stock disposed of was Rs. 13,800. The balance of surplus stock, viz., Rs. 1,54,800 was disposed of by being used in works to the best advantage, and no stock was disposed of in auction.

The total amount of debits (receipts) to stock during the year was Rs. 1,20,500 and was distributed as follows:—

	RS.
(a) From the Director-General of Stores, India Stores Department	14,100
(b) Local purchases	69,700
(c) From other Divisions and Departments.	4,400
(d) Manufactured articles and miscellaneous receipts	11,400
(e) Through adjustments	5,400
(f) Storage charges	11,300
(g) Working expenses of plant and machinery.	4,200
Total	1,20,500

The total amount of credits to (issues of) stock during the year was Rs. 1,63,400.

The total amount of hire charges realized on heavy plant and machinery was Rs. 9,010 and was distributed for each class as follows:—

	RS.
A class	850
B class	2,430
C class	5,730
Total	9,010

VIII.—DIRECTION.

M.R.Ry. Diwan Bahadur R. Narasimha Ayyangar, B.A., B.E., continued to be Chief Engineer (General and Irrigation) till 16th September 1936 forenoon, when he retired from the service. Mr. M. O'Brien, B.E., A.M.I.C.E., who was Chief Engineer (Buildings and Roads) took over charge of the duties of Chief Engineer (General) on 16th September 1936 forenoon. Mr. F. M. Dowley, M.I.C.E., became Chief Engineer for Irrigation from 16th September 1936 forenoon.

M.R.Ry. Rao Bahadur N. Govindaraja Ayyangar, B.A., B.E., continued as Deputy Chief Engineer (General, Buildings and Roads) during the year under review.

M.R.Ry. Rao Bahadur V. Ayyadurai Ayyar, B.A., B.E., was Deputy Chief Engineer for Irrigation till 25th September 1936 forenoon when he was succeeded by M.R.Ry. Rao Sahib A. R. Venkata Acharya.

Mr. R. Dann, F.R.I.B.A., M.T.P.L., A.I.L.A., who was previously Consulting Architect to Government was appointed Special Architect to Government on 15th March 1936. He proceeded on leave on 11th March 1937 afternoon. The post of Special Architect ceased from that date.

Mr. Jacob Fernandes, A.I.L.A., who was previously Assistant Consulting Architect to Government became Consulting Architect to Government on 15th March 1936 and continues to hold the post.

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

APPENDIX A.

Statement showing the appropriation and outlay during 1936-37 under all heads of Civil Works.

Service heads.	Original works.		Repairs.		Total.	
	Appropriation. RS.	Outlay. RS.	Appropriation. RS.	Outlay. RS.	Appropriation. RS.	Outlay. RS.
<i>Central.</i>						
Civil buildings	17,333	16,188	65,520	66,350	82,853	82,538
Communications	..	..	900	888	900	888
Establishment	..	..	..	..	14,300	14,325
Tools and Plant	..	..	..	..	1,237	1,249
Total, Civil Works—Central	..	..	..	..	..	99,000
<i>Provincial.</i>						
41. Civil Works—Reserved—						
Civil buildings	63,700	64,086	4,78,600	{ 2,74,690	6,73,200	{ 3,38,776
Communications	1,30,900	1,32,241	..	{ 2,06,621	..	{ 3,38,862
Miscellaneous	..	..	..	..	..	..
Establishment	..	..	..	..	(b) 1,50,800	(a) 2,01,850
Tools and Plant	..	..	..	..	(b) 1,300	(a) 2,530
Deduct—Gain by exchange on English trans-	..	..	..	..	..	..
actions	..	..	..	..	..	..
Deduct—English cost of Stores and Establish-	..	..	..	..	..	..
ment	..	..	..	..	..	..
Total, 41. Civil Works—Provincial—Reserved	..	..	..	..	..	..
(a) Net debits to Establishment and Tools and Plant.	..	..	..	..	..	..
(b) Represents gross grants.	..	..	..	..	..	..

Statement showing the appropriation and outlay during 1936-37 under all heads of Civil Works—cont.

Service heads.	Original works.		Repairs.		Total.	
	Appropriation. RS.	Outlay. RS.	Appropriation. RS.	Outlay. RS.	Appropriation. RS.	Outlay. RS.
<i>Provincial—cont.</i>						
41. Civil Works—Provincial—Transferred—						
Civil buildings	17,29,800	16,72,938	17,42,600	{ 12,14,598	36,05,700	{ 28,87,536
Communications	1,33,300	1,33,006	..	{ 5,04,121	..	{ 6,37,127
Miscellaneous	..	..	..	17,558	..	17,558
Establishment (excludes District Board establishment)	..	..	..	..	(b) 41,12,000	(a) 13,98,715(c)
Tools and Plant	..	..	..	..	(b) 89,500	(a) 38,422
Suspense	..	..	..	..	..	..
Deduct—Gain by exchange on English transac-	..	..	..	..	..	..
tions	..	..	..	..	..	..
Deduct—English cost of Stores and Establish-	..	..	..	..	..	..
ment	..	..	..	..	..	..
Total, 41. Civil Works—Transferred (net outlay in India)	..	..	..	..	..	..
60. Civil Works—Reserved—						
Civil buildings	93,500	92,228	..	..	93,500	92,228
Establishment	..	..	..	..	..	17,362
Tools and plant	..	..	..	..	..	214
Total, 60. Civil Works—Reserved	..	..	..	..	..	1,10,404
60. Civil Works—Transferred—						
Civil buildings	8,12,900	8,07,198	..	..	8,12,900	8,07,198
Communications	..	..	..	..	..	..
Establishment	..	..	..	..	..	1,96,741
Tools and plant	..	..	..	..	..	2,412
Total, 60. Civil Works—Transferred	..	..	..	..	..	10,06,351
<i>Non-Government works.</i>						
Deposit works (with entage)	..	..	..	..	..	7,49,909
(a) Net debits to Establishment and Tools and Plant.	..	..	..	..	..	..
(b) Represents gross grants.	..	..	..	..	..	..
(c) Excludes the cost of District Board Engineers' establishment.	..	..	..	..	..	..

Statement showing the length of road communications maintained by the public authorities during 1936-37.
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.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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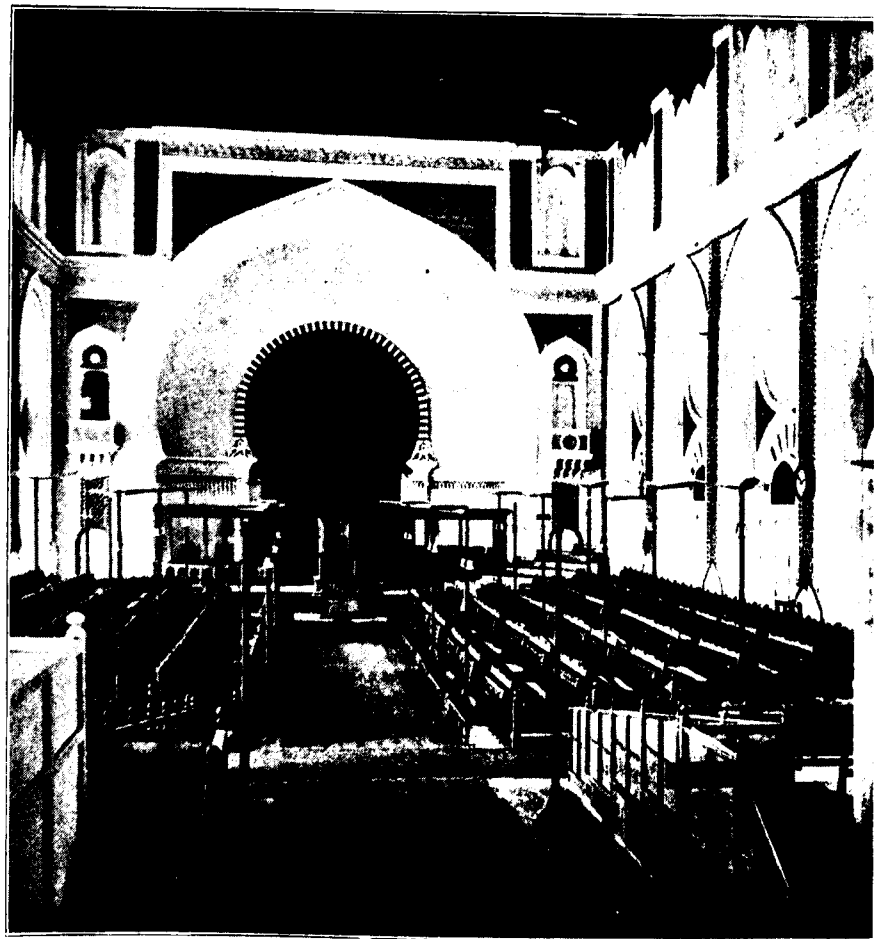
*** Cantonments.**

N.B.—A length of 3 furlongs and 429 feet of metalled road and 2 furlongs 480 feet of tar macadam road which belong to the Public Works Department are being maintained by the Corporation of Madras for which an annual contribution of Rs. 1,580 was paid by the Public Works Department to the Madras Corporation.

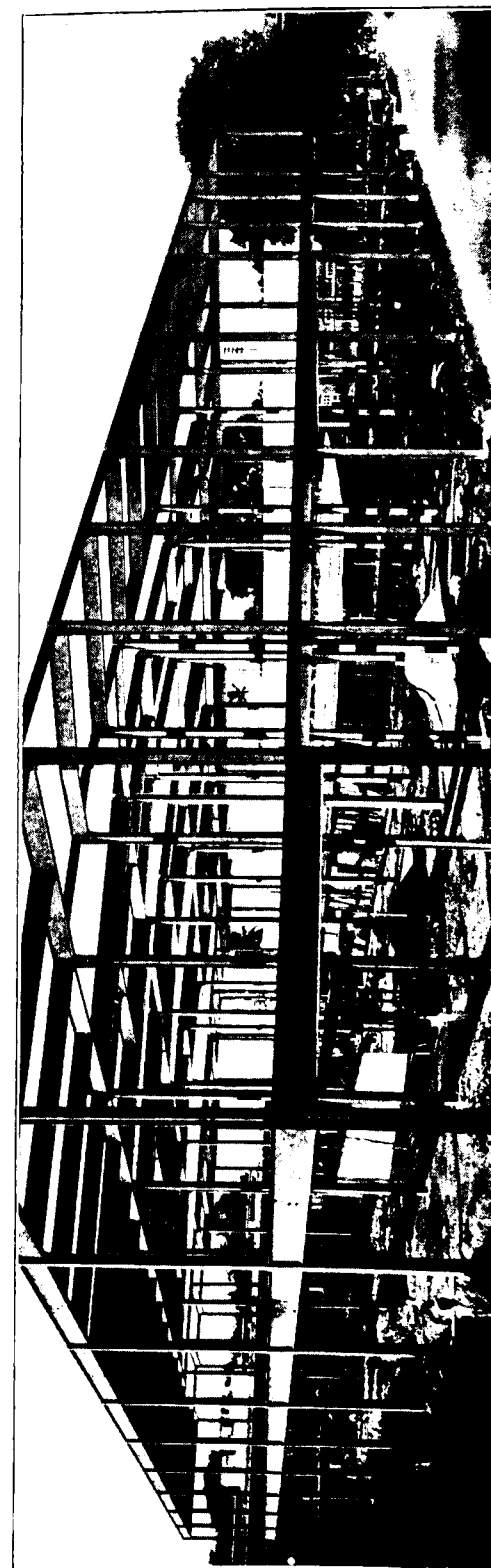
About 1,215 miles of road were maintained by this department and the cost of their maintenance during the year was about Rs. 7-3 lakhs



1. REINFORCEMENT FOR THE R. C. RAFT FOUNDATION TO THE PRESIDENCY
COLLEGE SCIENCE BLOCK EXTENSION.



2. INTERNAL VIEW OF THE SENATE HOUSE.



3. MINT PRESS, STEEL WORK.



1. COLONNADE, GOVERNMENT HOUSE.

