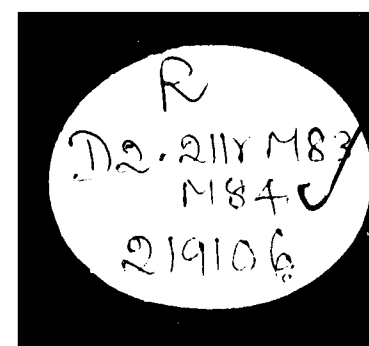


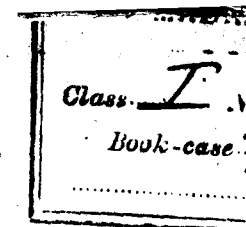


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ADMINISTRATION REPORT

OF THE

PUBLIC WORKS DEPARTMENT,

(GENERAL, BUILDINGS AND ROADS BRANCH,)

MADRAS PRESIDENCY,

FOR THE YEAR

1883-84.

MADRAS:

PRINTED BY R. HILL, AT THE GOVERNMENT PRESS.

1884.

ADMINISTRATION REPORT
OF THE
PUBLIC WORKS DEPARTMENT, MADRAS,
(GENERAL, BUILDINGS AND ROADS BRANCH),
FOR THE YEAR 1883-84.

I.—GENERAL REMARKS.

1. The administration of the department devolved during the year under review on Colonel Shaw-Stewart, R.E., in succession to Major-General Sankey, R.E., who resigned his position as Chief Engineer and Secretary to Government on the 16th September 1883.

The following is an extract from the Proceedings of Government recorded on the occasion :—

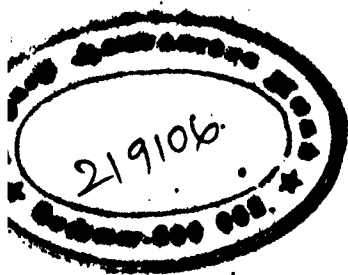
"In accepting Major-General Sankey's resignation from the date named, His Excellency the Governor in Council desires to place on record his high appreciation of the services rendered to the State by that able and distinguished officer."

2. *Departmental Establishment.*—During the year under review, the Government of India decided on the amalgamation of the officers of the Consulting Engineer's Departments of Madras and Bombay with the Railway Branch of the Government of India; and the three officers forming the Consulting Engineer's Department of Madras were accordingly transferred to the Government of India Railway list, to which they carried their former grading, under favorable conditions with respect to their future promotion.

Insufficient allowance having been made for absentees in the Provincial scale of establishment, the Government of India sanctioned an increase of one Engineer. They further undertook eventually to provide nine Engineers for the maintenance of irrigation tanks, provided that, on the expiry of the present Provincial contract, arrangements could be made for an annual expenditure of 4½ lakhs on these works.

3. *Madras Harbour.*—The report of the Madras Committee on the restoration of the harbour, alluded to in the previous Administration Report, was referred to Sir John Hawkshaw's Committee in London, whose further remarks have only recently reached this Government. The question as to the best means of restoring the harbour works had not been decided at the close of the year under review; but it is understood that the Home Committee object to the proposed substitution of an entrance at the north-eastern angle for the one originally designed in the centre of the eastern face.

The principal work of the year was of a *protective* character, and was necessitated by the action of the sea which encroached considerably to the north of the harbour. Where the shore is protected by a stone revetment, no damage has been done, but immediately beyond this the encroachment has been extensive. The amount expended on the protective revetment has already reached upwards of two lakhs of rupees. If to this be added the sums paid as compensation to owners of property, and the amount paid



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ADMINISTRATION REPORT OF THE PUBLIC WORKS

for land, &c., taken up to prevent further claims, the total outlay on this contingent expense of the harbour works will not be far short of five lakhs of rupees.

The general aspect of the harbour works remains the same. Along the shore line between the piers, the action of the reflected waves of the south-west monsoon coming off the north pier has caused an erosion of sand and a deepening of water near the north pier, with a corresponding deposit of sand near the south pier.

The shore to the south of the harbour continues to advance slowly seaward.

The small working staff retained on the works has been occupied in overhauling and repairing plant and machinery.

Notwithstanding the incomplete and broken condition of the harbour piers, great advantage from them has been obtained by all vessels coming within their shelter during the prevalence of ordinary weather.

The expenditure during the year under review has been as follows:—

	RS.	A.	P.
Reconstruction	9,802	6	7
Repairs	10,300	12	8
Establishment	68,694	1	9
Contingencies	1,39,753	5	10
Tools and plant	3,639	3	5
	2,32,189	14	8
Less refunds	11,363	11	9
Total	2,20,826	2	6

The question of the levy of tolls in the harbour came up for consideration during the year. It was decided to impose, on the Harbour Dues Act coming into force, a maximum toll of Rs. 1-9-6 per ton on all goods landed at, and shipped from, the pier, and Rs. 1-5-8 on goods landed at, and shipped from, the beach. These tolls are intended to cover charges connected with the pier and preventive service of the port. The Act had not come into force at the close of the official year.

4. *Northern Harbours.*—The hydrographic surveys commenced by the Public Works Department at the port of Vizagapatam were abandoned during the year, on the advice of the local Marine Department; intimation having been received that a party of the Indian Marine Survey Department would take up the work. The construction of a pier at Vizagapatam, to facilitate shipping operations, is in contemplation; the details of the scheme being now under inquiry.

At Bimlipatam, the construction of a rough stone groyne, at an estimated cost of Rs. 5,980, was sanctioned, and the work is in progress. It is hoped that the effect of this will be to fix the river mouth in the most favorable position, and allow of boats passing readily in and out of the river, and discharging and loading cargo at the river bank in smooth water, at all seasons.

No action is being taken for the present at Calingapatam; but the subject is kept in view.

At Gopálpur, where a large trade exists, the advantages of a pier are warmly appreciated by the mercantile community, who are willing that all exports and imports shall be liable to a toll, the proceeds from which should be sufficient both to cover interest on the outlay together with the cost of maintenance, and to extinguish, within a reasonable period, the capital sum which will, in the first instance, be advanced from Port Funds. The question as to the design and estimate for the pier was under consideration at the close of the year.

5. *Cocanada Harbour Improvements.*—A decided improvement has recently taken place in the Cocanada mouth of the Godáviri river. Instead of the ebb water and freshes spreading silt over the Bay as formerly, the river has greatly deepened and assumed a more compact form. The existing groynes, sanctioned in 1880, are, however, not of sufficient length to prevent an accumulation of sand at the extremities. It has therefore been decided to extend them, and an estimate of Rs. 68,800 for the work was sanctioned during the year under review, in supersession of the approximate estimate of Rs. 53,608 referred to in last year's report. The mercantile community, who

are much in favor of the project, anticipate no difficulty in collecting sufficient dues to repay the outlay, which will, in the first instance, be charged to Port Funds. A special legislative enactment providing for the levy of one pie per cwt. of goods landed or shipped at the port came into force from the 1st February 1884.

6. *Mangalore Harbour.*—As anticipated in the previous report, the new mouth for this port, which had been opened near the Custom House, closed early in this official year. In the month of June, the Netrávati river, which debouches at this place, threatened to make an opening for itself. It was therefore considered advisable to guide the course of the river by cutting a channel so as to increase the scour, and at the same time reduce the action of the river on the old bar to the north, which becomes dangerous to shipping during rough weather. An expenditure of Rs. 500 was estimated as sufficient for the work, which was accordingly authorised to be carried out.

During December 1883 and January 1884, it was found that the old mouth had been considerably reduced; while the new mouth to the south was reported to be broad and deep, though not sufficiently so to allow the passage of large native craft. After careful consideration as to whether further operations should be undertaken for closing the old mouth, it was decided to await the result of the south-west monsoon, during which an improvement may be effected by natural agency.

7. *Proposed Pámban Ship Canal.*—In furtherance of the project brought forward by Messrs. Grindrod Jenkins and Company, to cut a canal through the island of Rámesvaram, the firm applied for a strip of land three hundred yards in width across the island, which they offered to pay for at the rate of Rs. 200 per acre, half in cash, and half in shares; both to be payable after formation of the Canal Company. The land in question forms a portion of the Ramnad Zemindari, at present administered by the Court of Wards, who declined to entertain the proposal that half of the payment for the land should be made in shares; while, in addition to the price of the land, the Court stipulated that the proposed Company must undertake to pay full compensation to such tenants as might be ousted from their holdings. It was further stipulated that the Company must provide and maintain such ferries across the canal as might be necessary to maintain existing rights of way. Subject to these conditions, the Court expressed themselves willing to accept Rs. 200 an acre for their Ward's interest in the required land.

A survey of the line having been made, it was found that 225.62 acres of land would be required by the Company. The occupants have agreed to accept Rs. 6,371 as compensation; while the payment to the Zemindar will amount to Rs. 46,624.

The only line of road which the canal will cut is the main road from Pámban to Rámesvaram; and, under advice from the Public Works Department, it has been decided to enter the following conditions in any agreement that may be made with the Company:—

- (1) That the Canal Company are to build across the canal a good iron bridge with roadway, not less than 24 feet wide; to carry a first-class road, and strong enough to pass elephants over it.
- (2) The centre portion to be movable for the passage of ships; and to be so designed and constructed, that there may be no unreasonable delay in opening and shutting.
- (3) That the plans, &c., are to be sent to the Madras Government for approval, and any suggestions made by that Government are to be carried out without question.
- (4) That the Company are to maintain at their cost a proper establishment for working the bridge; and also to maintain the bridge, roadway, and approaches in good order.

The Company has still to be brought into existence.

8. *Potinghi Ghat.*—The importance of constructing a road practicable for carts, to connect the Jaypore Zemindari with the head-quarters of the Vizagapatam District and with the coast, has long been admitted. This large and rich Zemindari is shut in on the south and east by a high plateau, some 40 miles in width, and varying from 3,000 to 5,000 feet above sea level. The sides of this plateau are bounded by precipitous

ghâts, practicable in only a few places for pack bullocks, the sole means by which this singularly fertile tract has been hitherto able to maintain commercial relations with the littoral plains.

During more than 20 years, different routes have been examined and recommended as offering facilities for the construction of a road; and in 1873, the Government came to the decision that a line coinciding with the old Panchipenta ghât at its two extremities above and below Pottinghi and Sâlûr was "undoubtedly the preferable line of communication to be opened between the Jeypore table-land and the low country."

As a preliminary, a bridle-path, 6 feet wide, was ordered to be cut along the trace, to enable data to be gained for the preparation of an estimate.

Detailed proposals came before Government in 1876, when it was decided to form a road 13 feet wide throughout the length of 22 miles. This project was, however revised in 1880, when the width was increased to 20 feet; and the estimate finally sanctioned for the work amounted to Rs. 4,25,391.

After exceptional difficulties in many matters, this important road has at last been successfully completed; but at the cost of several valuable lives, and of much sickness among those who survived. The total outlay has been Rs. 4,10,262.

The extension of the road from Pottinghi northward towards Jeypore is now under consideration.

9. *Wynaad Communications*.—A special officer was appointed for surveys in Wynaad, in view to the improvement of the roads; and as the Wynaad Planters' Association represented that the road of the greatest importance to the district was that from Calicut to Vayitri, 43 miles in length, attention was directed to it in the first instance. A preliminary report was submitted in January, and estimates in detail are now being framed for the improvement of that section.

10. *Improvements at Ootacamund*.—Progress was made during the year in the acquisition and removal of objectionable buildings, the occupants being housed by the Municipality in a more suitable locality. The drainage of the bazaars also received attention, an estimate of Rs. 40,000 having been sanctioned for a new brick sewer, which will eventually be connected with an iron pipe sewer, through which the drainage will be conveyed into a valley at the lower end of the lake.

It is understood that the Municipality have under consideration a scheme for the erection of new market, which, if carried through, will supply a much felt want.

11. *Improvements to the South Beach and to the Chepâk Park*.—A great deal has been done for the improvement of this favorite part of Madras. The South Beach Promenade has been considerably widened from the Napier bridge towards the old Ice-house; and the ruinous brick walls on either side have been replaced by cut stone. The old bridges have been rebuilt. The carriage drive along the beach has been widened and greatly improved. The old rust-eaten iron railings which enclosed the Marine Villa, the Senate House, the Board of Revenue office, and the Presidency College, have been removed, and replaced by a handsome low wall of cut-stone, along which it is intended to form a ride.

In the Chepâk Park much has also been done towards planting the grounds with ornamental trees, laying out drives, &c.

A design is under preparation for a handsome bridge across the Buckingham Canal, to the north-west of the Senate House. It is hoped that this bridge will be constructed during the coming year; and, when finished, it will restore the communication along the south bank of the Kuam between the Mount Road and the beach.

12. *Tirumal Naick's Palace*.—The question of accommodating the public offices stationed at Madura in the partially restored buildings of the old palace came up for decision during the year, and a Committee was appointed to consider the subject. The inquiries of the Committee were directed to the following points:—

(a) How the different offices should be accommodated.

(b) What alterations are necessary, and what subsidiary buildings are required.

Their probable cost, and the best sites for them.

(c) The preparation of an approximate estimate of all requirements.

(d) A programme of the order in which the works proposed should be carried out.

The Committee laid their report before Government in January 1884. They deprecated a complete restoration of the palace,—being of opinion that what has already been done as regards ornament is sufficient to show the original design, the chief beauty of which consists in its size and massiveness. Future restorations might therefore, the Committee considered, have in view utility rather than ornament.

To complete the palace throughout, so as to make it suitable for all the public offices to be accommodated, a sum of Rs. 1,32,092 would, it was estimated, be required, the previous outlay having amounted to Rs. 2,13,250. The proposals of the Committee are to be carried into effect as funds become available, detailed estimates being meanwhile prepared in order of urgency. The allotment for the work during 1883-84 was Rs. 30,000, and this was fully utilised.

13. *Gas Works, Fort St. George*.—The defective arrangements for lighting Fort St. George came under consideration during the year. The introduction of gas was sanctioned in 1859, when the necessary apparatus for the manufacture of oil gas was sanctioned, at an estimated cost of Rs. 12,410. Coal was, however, a few years later, substituted for oil in the manufacture of the gas, the requisite adaptations having been made in the machinery. The arrangement seems never to have been a success, either practically or financially. When the matter was investigated in 1877, it was found that, during the twelve months ending August of that year, 274,260 cubic feet of gas were made, out of which only 263,345 were consumed, leaving 10,915 cubic feet as wastage; the cost, exclusive of superintendence, being Rs. 2,869, or about Rs. 10-13-0 per 1,000 cubic feet consumed; and that 38,308 lights were burnt during the year, so that each light used per night 6-875 cubic feet of gas. On an average 105 lights were burning per night during the year; and the average cost for each light was Rs. 2-4-5 per month, or Rs. 0-1-3 per night. It was, however, estimated that, if the lighting were extended so that the works could be fully utilised, the cost per 1,000 cubic feet would perhaps be reduced to about Rs. 5-8-0. But the expense already incurred on the works, the difficulty of carrying them on, and the eminently unsatisfactory results which had accrued, induced the Government, on the recommendation of His Excellency the Commander-in-Chief, to order the closing of the works during the year under review, and to substitute kerosine oil for lighting the Fort. The question of introducing into the Fort electric light is under consideration.

14. *Electric Clocks*.—Two sympathetic electric clocks being available at the Observatory, inquiries were made as to the cost of their erection on a suitable site in the town of Madras. A project was accordingly framed by the Consulting Architect for a tower on the Mount Road, 54 feet high, to hold both clocks, which would be kept in synchronous order with other similar clocks in Madras, under the electrical control of the Observatory meantime regulator. The tower was estimated to cost Rs. 10,000, while Rs. 2,000 more would be required for altering the clocks to suit the tower and for establishing electrical connection with the Observatory. The Municipality were asked whether they would contribute half of the cost; but they declined to subscribe more than Rs. 2,000, and subsequently withdrew even that offer. The Government accordingly decided to abandon the project of a tower on the Mount Road, and directed that one of the clocks should be placed inside the large hall of the new Post office, and the other outside the Public Works office at Chepâk.

15. *Preservation of Ancient Monuments, Vijayanagar or Hampi*.—An estimate, amounting to Rs. 18,990, for restorative work at the Vijayanagar ruins, was sanctioned during the year under review. The estimate provided for the preservation of the Vittala Swami Temple, and for repairs to the Hayara Ramchandra or Temple of Victory, the Queen's Baths, and the Raganath Swami Temple; with the necessary establishment charges. The expenditure during the year amounted to only Rs. 5,121, and the work executed was confined principally to the two structures known as the Vittala Swami Temple and the Queen's Baths. The Vittala Swami Temple was entirely cleared of rubbish and large stones, disclosing that much more damage had been done to the walls than had been visible before; the roof and pavement were then repaired. The

ruinous ashlar wall were pulled down and rebuilt; some large stones of from three to six tons weight were removed from dangerous positions in the porch, and the stone car was repaired. The roof of the Basant Mandapa was reterraced, and is now water-tight; and the back wall was buttressed. The outer walls were rebuilt at the western and northern sides, and other petty works were carried out.

A plan of the Vittala Swami Temple was drawn and photo-zincographed, and a number of pen and ink drawings were made of that temple and of other sculptures at Vijayanagar.

The roof of the Queen's Baths was reterraced, and repairs to the basement were carried out.

16. *Public Works Workshops, Madras.*—The amount received from Government for the operations of the workshops was Rs. 1,01,500 in cash and Rs. 16,689 in stores, making a total of Rs. 1,18,189, against which credits were afforded by cash Rs. 5,493, and by book adjustments Rs. 1,00,938, or a total of Rs. 1,06,431.

The Workshop continued its operations during the year, on the restricted footing on which it had been previously placed. With a view to elicit information as to the effect of existing arrangements, and to arrive at a decision as to the future of the shops, a committee was appointed to investigate and report on the whole subject. Their attention was specially directed to the following points:—

- I. The financial effects of the restrictive orders of 1882.
- II. The extent to which the department had availed itself of outside agency, and the manner in which work had been executed by such agency.
- III. The requirements of the new lines of railway.
- IV. The future policy to be pursued.
- V. The circumstances of the mathematical instrument department.
- VI. The future strength of the staff to be employed.

The report of the committee did not come under review till after the close of the official year.

17. *Public Works Stores, Madras.*—The opening balance of serviceable stock in store on the 1st April 1883 was Rs. 3,63,960, or Rs. 895 in excess of the amount entered in the Administration Report for 1882-83. The excess was owing to credits afforded after the report was drawn up. The receipts from all sources during the year amounted to Rs. 93,184, which, with the opening balance, made a total of Rs. 4,57,144. The remains on the 31st March 1884 amounted to Rs. 3,10,380, or Rs. 53,580 less than the opening balance of the year.

The reduction of stock was due to sale of surplus articles.

18. *Famine Code.*—A comprehensive code of instructions for the guidance of officers of various departments in cases of famine was issued during 1883-84; and, in circulating the code to the officers of the Public Works Department, particular attention was drawn by the Chief Engineer to those portions which require preliminary arrangements to be made in anticipation of the occurrence of famine. Superintending Engineers were directed to constantly maintain in their several budgets a number of "Professional Agency Works" for each district, sufficient for four years' ordinary labor. With this object, it was directed that estimates should be submitted for sanction from time to time, so that the list of works available for famine relief should contain as many duly sanctioned projects as possible, and the waste of money inseparable from the execution of ill-considered schemes, taken up on emergency, avoided.

The adequacy of the scheme of works is to be specially reported on by Superintending Engineers; and it will also be noticed in the Circle Administration reports.

Data for framing task-work tables for the use of the Civil authorities are to be at all times in readiness, and an ample supply of tools and treasure chests is to be maintained.

19. *Standard Specifications.*—The standard specifications of the department, issued in a preliminary form in 1881, were thoroughly revised and published as a book of reference.

Notes on the following subjects were also drawn up, and published as appendices to the standard specifications:—

- A. Lightning Conductors.
- B. Sanitation of Working Parties.
- C. Instructions for using Dynamite.
- D. Cements.
- E. Portland Cement of Indian Manufacture.
- F. Useful Timber Trees.

20. *Civil Engineering College.*—The question as to the future course of study in the Civil Engineering College, and as to the means of affording practical instruction, was still under the consideration of Government at the close of the year. The total number of appointments of passed students to the Engineer Establishment of the Public Works Department has hitherto been small, but a fair proportion have been employed in superior posts by Local Fund Boards. The upper subordinate ranks of the Public Works Department have, however, absorbed large numbers. The first department of the college, or the engineer class, is at present in a flourishing condition; a result due partly to the prospect lately held out by the Government of India of an appointment on the Engineer Establishment of the Public Works Department being reserved annually for competition, and partly to the nomination of several passed students to the grade of Apprentice Supervisor. The reductions in the Public Works Department prior to 1881 created a period of depression in the second or upper subordinate department of the college, but that class has now regained its original strength.

The classes of surveyors and draftsmen have declined; a circumstance due in part to the use of a higher standard of examination on admission, and in part to the low scale of salaries obtainable by the majority of draftsmen, and to the temporary nature of the work usually secured by surveyors.

21. *Maps and Plans.*—The value of work turned out by the Government Lithographic Press, from April 1883 to March 1884, amounted to Rs. 10,751, while the working expenses were Rs. 10,894.

22. *Expenditure.*—The original grant under *Imperial, Military* was Rs. 6,01,300, the revised estimate was Rs. 5,97,400, and the expenditure amounted to Rs. 5,90,130. Under *Imperial, Other Services*, the original grant was Rs. 2,62,000, and the revised estimate was Rs. 2,62,300, while the expenditure amounted to Rs. 2,58,510. Under *Provincial*, the figures were, original grant Rs. 21,50,000, revised estimate Rs. 22,67,190, and expenditure Rs. 21,95,445.

II.—PROGRESS OF WORKS.

I.—IMPERIAL—MILITARY.

23. *Bellary.*—The water-supply project was completed. The total expenditure during the year amounted to Rs. 1,41,754, against an estimate of Rs. 1,41,628. The whole tank embankment is now in good order.

24. New pattern punkahs for the British infantry barracks were provided at a cost of Rs. 4,921.

25. Two of the three blocks of stables sanctioned for a field battery of royal artillery were completed, and the third block was nearly finished. The expenditure to the end of the year amounted to Rs. 8,540, against the sanctioned estimate of Rs. 10,000.

26. A supplemental estimate, amounting to Rs. 5,239, for improvements to the Government bakery, was sanctioned, bringing the total estimate for the project up to Rs. 12,589. The work was completed at a cost of Rs. 11,612.

27. A commissariat slaughter-house was in progress. The expenditure during the year was Rs. 3,567, against an estimate of Rs. 7,210. The work was delayed owing to difficulty as regards site, and backwardness on the part of the contractor.

28. **Coimbatore.**—Notwithstanding failures on the part of contractors, work on the barracks for a detachment of British infantry at Malapuram progressed fairly. The expenditure during the year amounted to Rs. 34,984 out of an allotment of Rs. 40,000. The total expenditure to the end of the year stood at Rs. 45,530, against an estimate of Rs. 1,31,610.

29. A boarded floor for the hospital of the British infantry regiment at Cannanore was provided at a cost of Rs. 5,558.

30. The work of converting the old artillery stables into a bakery and sinking a well was nearly completed. The expenditure to the end of the year amounted to Rs. 5,000 against an estimate of Rs. 11,380.

31. The expenditure on repairs to military buildings in the division amounted to Rs. 32,727.

32. **North Arcot.**—An armourer's shop for the native infantry regiment at Vellore was commenced; estimate, Rs. 2,800.

33. **Nilgiris.**—The following works were completed during the year at the cost shown:—

Extending the 6-inch water main-pipe from the barrack square to the married quarters at Wellington, Rs. 4,556.

Kitchen ranges for the married quarters at Wellington, Rs. 7,761.

Plunge-bath for the boys' school, Lawrence asylum, Rs. 2,647.

34. **Presidency and Bangalore.**—Progress on the improvements to the gunpowder factory was continued. The conversion of the granulating house into a pebble cutting machine house was commenced, and alterations to the incorporating mills and the composition mills were completed. The outlay during the year amounted to Rs. 16,892.

35. The completion of emplacements, improvements to store-rooms of the coast batteries, and protective work on the sea side of the Napier battery were in progress. The total expenditure amounted to Rs. 30,511.

36. Improvements to the terraced roof of the armoury of the grand arsenal, Fort St. George, were carried out at a cost of Rs. 4,722.

37. Alterations and additions to the wash-houses of the parade barracks at Bangalore were in progress. The expenditure during the year amounted to Rs. 7,946, against an estimate of Rs. 12,500.

38. Additional accommodation for the school of the "Queen's Own" Sappers and Miners was provided at a cost of Rs. 3,502.

39. Work on the fortified post at Agaram was commenced. Funds were allotted too late in the year to admit of much progress.

40. The outlay on minor new works at the Presidency and Bangalore amounted to Rs. 6,266, and on repairs, including barrack master's petty repairs, to Rs. 1,50,209.

41. **Chingleput.**—Four more family quarters at Poonamallee were finished at a cost of Rs. 9,295, making, in all, nineteen completed quarters. The total outlay on the buildings amounted to Rs. 60,283. Thirty quarters were sanctioned in 1879 at an estimated cost of Rs. 82,300, but the nineteen completed are now considered sufficient for the requirements of the dépôt.

42. Further progress was made on the new royal artillery barracks at St. Thomas' Mount, and the expenditure during the year amounted to Rs. 30,040. The total outlay on these barracks to the end of the year was Rs. 67,389, against an estimate of Rs. 1,35,050.

43. Rs. 4,571 were spent on minor new works, and Rs. 19,257 on repairs.

44. **Trichinopoly.**—The construction of public buildings for the 30th Regiment Native Infantry at Trichinopoly was commenced, and Rs. 3,188 spent during the year

II.—IMPERIAL—OTHER SERVICES.

45. **Vizagapatam.**—Improvements to the post office at Vizagapatam were completed, at a cost of Rs. 3,109.

46. **Godavari, East.**—A post office building at Kunavaram was commenced.

47. The construction of quarters for signallers of the Telegraph Department at Cocanada was in progress, Rs. 7,494 having been spent, against an estimate of Rs. 31,860.

48. **Nellore.**—A post office at Muthukur was constructed at a cost of Rs. 1,745.

49. **Nilgiris.**—The expenditure on the combined post and telegraph offices at Ootacamund amounted to Rs. 16,713, bringing the total outlay to the end of the year to Rs. 49,458. The main building was completed. Additions to the postmaster's quarters and the out-offices were in progress.

50. A post office at Devála was nearly completed, the expenditure having been Rs. 3,226, against an estimate of Rs. 3,730.

51. **Presidency and Bangalore.**—The expenditure during the year on the combined post and telegraph office at Madras amounted to Rs. 1,57,863, bringing the total outlay to Rs. 5,84,273. The buildings were nearly completed at the end of the year, and have been occupied by the post and telegraph offices. The upper part of the towers and some terra-cotta insertions remained to be done. The building is 352 feet long and 162 broad, open on the east, north, and south sides. With the exception of the central hall, it is in three stories. The ground-floor is devoted to servants, stores, kitchen, &c., the first-floor to offices, and the third story over the wings to residences for departmental officers.

52. A mail agent's office at the railway station, Bangalore, was built for Rs. 1,497.

53. An estimate, amounting to Rs. 15,040, for a new telegraph office at Bangalore, was sanctioned, and materials to the value of Rs. 2,076 were collected for the work.

54. A wall round the compound of the Madras telegraph store-yard was built at a cost of Rs. 2,909.

55. **South Arcot.**—Improvements to the post office at Manjakuppam were carried out for Rs. 1,187.

56. The construction of a head-sludge to the Merkanam brine supply channel was in progress, the expenditure having been Rs. 2,447, against an estimate of Rs. 3,000.

57. **Tinnevely.**—Post offices were constructed at Srivaikuntham, Vāsudeva-nallūr, and Tenkási.

III.—PROVINCIAL—CIVIL BUILDINGS.

58. **Ganjam.**—A second-class police station at Majagedda was completed, at a cost of Rs. 1,645.

59. Additions to the divisional office at Berhampore were in progress. Rs. 1,719 were spent against an estimate of Rs. 2,468.

60. The Collector's cutcherry at Chatrapur was repaired at a cost of Rs. 2,964.

61. **Vizagapatam.**—A third-class taluk cutcherry at Párvatipur was nearly completed, Rs. 8,644 having been spent against an estimate of Rs. 8,460.

62. A bungalow, with out-houses, for the Assistant Superintendent of Police at Jeypore was in progress; expenditure Rs. 4,549, against an estimate of Rs. 11,260.

63. Police lines at the Párvatipur hill jail were completed at a cost of Rs. 4,570.

64. A travellers' bungalow at Sálúr was in progress, Rs. 2,353 having been spent against an estimate of Rs. 4,520.

65. Alterations to the lunatic asylum at Waltair, estimated to cost Rs. 4,955, were in progress, the expenditure having been Rs. 3,095.

66. Warders' lines and quarters for the deputy jailor and head constable attached to the zillah jail at Vizagapatam were completed at a cost of Rs. 4,910.

67. Seven minor works were completed at a total cost of Rs. 6,897.

68. **Godavari, East.**—The following works were completed :—

Office and quarters for the Special Assistant Agent at Kunavaram, Rs. 9,629.

Police head-quarters office at Rajahmundry, Rs. 17,093.

Police station at Addatigala, Rs. 1,124.

Taluk cutcherry and out-houses at Bhadrachalam, Rs. 9,039.

Quarry office at Dowlaisheram, Rs. 1,061.

Extending the workshop accommodation in the central jail at Rajahmundry, Rs. 6,234.

69. The following works were in progress :—

Water-supply and improvements to the drainage of the central jail at Rajahmundry; estimate Rs. 30,000, expenditure Rs. 5,841.

Improvements to the sea-customs buildings at Cocanada; estimate Rs. 4,310, expenditure Rs. 2,470.

Enlarging the Superintending Engineer's office at Dowlaisheram; estimate Rs. 2,450, expenditure Rs. 1,676.

New court-house at Rajahmundry; estimate Rs. 33,200, expenditure Rs. 13,560.

Sub-registrar's office at Ramachandrapuram; estimate Rs. 2,350, expenditure Rs. 1,669.

Church at Cocanada; estimate Rs. 14,039, expenditure Rs. 3,375.

Church at Dowlaisheram; estimate Rs. 3,200, expenditure Rs. 1,673.

Out-houses for the superintendent's quarters, Rajahmundry jail; estimate Rs. 2,250, expenditure Rs. 1,000.

70. **Godavari, West.**—A sub-magistrate's cutcherry at Pentapadu was completed at a cost of Rs. 6,594, and another at Potavaram was finished, the expenditure having been Rs. 6,932.

71. A sub-registrar's office at Pentapadu was commenced on an estimate of Rs. 2,710.

72. **Kistna.**—Improvements to the Collector's cutcherry at Masulipatam were commenced on an estimate of Rs. 34,845, but progress on the work was not satisfactory. The expenditure amounted to Rs. 9,257.

73. A divisional office at Duggirala was completed.

74. The following works were almost completed :—

A sub-registrar's office at Gudivada.

Divisional office at Gudivada.

Treasury-room in the Gudivada taluk cutcherry.

District munsif's court at Bapatla.

Hospital's assistant quarters and a well for the jailor's quarters in the Guntur jail.

75. **Nellore.**—A district munsif's court at Kavalu was completed at a cost of Rs. 10,558.

76. The following works were nearly completed :—

Sub-magistrate's cutcherry at Kota.

Sub-jail at Darsi.

Eight constables' huts at Atmakur.

77. Two new wards and an office at the district jail were completed, and the construction of two condemned cells was commenced.

78. The following unfinished works of the previous year were completed :—

Residences for the Sub-Collector and Assistant Superintendent of Police at Ongole.

Sub-jail at Allur.

Police station at Ongole.

Sub-registrar's office at Kavalu.

79. **Bellary.**—A taluk cutcherry, a Deputy Collector's cutcherry, and a sub-registrar's office at Adoni were in progress.

80. A taluk cutcherry at Harpanahalli was commenced on an estimate of Rs. 26,715. The expenditure during the year amounted to Rs. 6,383.

81. Eight police huts at Kampli were completed at a cost of Rs. 2,455.

82. Quarters for the deputy jailor at Bellary were constructed for Rs. 5,000.

83. A registrar's office at Bellary was completed at an expenditure of Rs. 4,264.

84. A small quantity of materials was collected for a Head Assistant Collector's cutcherry at Hospet, but owing to late date of sanction, the work had not been commenced at the end of the year.

85. Estimates for the following buildings at Anantapur were sanctioned :—

Collector's cutcherry, Rs. 55,000.

Residence for Collector, Rs. 30,875.

Residence for the Assistant Superintendent of Police, Rs. 13,688.

Residences for the police inspector, apothecary and subdivisional officer, each, Rs. 3,750.

86. Some of these works were commenced, but the contractors who undertook them did not make as good progress as was expected. A site for the Collector's residence was purchased for Rs. 8,000, but the work was postponed at the request of the Collector.

87. **Cuddapah.**—A taluk cutcherry at Pulivendla and a Sub-Collector's cutcherry at Madanapalle were commenced on estimates of Rs. 22,150 and 14,895, respectively.

88. Additions and alterations to the Collector's cutcherry at Cuddapah, estimated at Rs. 7,780, were nearly completed, the expenditure having been Rs. 7,343.

89. **Kurnool.**—A sub-divisional officer's bungalow at Cumbum was in progress; expenditure Rs. 1,067, against an estimate of Rs. 3,000.

90. **Salem.**—A taluk cutcherry at Dharmapuri, commenced in 1883-84, was completed at a cost of Rs. 25,975. Certain additions and improvements to the building, estimated at Rs. 835, were subsequently sanctioned, but not quite completed at the close of the year.

91. A district munsif's court at Tirupatur, also commenced in 1883-84, was completed at a cost of Rs. 12,589. Further work, to the extent of Rs. 1,343, was sanctioned and commenced.

92. **Coimbatore.**—The following works, commenced in previous years, were completed at the cost named :—

Additions and improvements to the lunatic asylum, Calicut, Rs. 7,705.

Converting the unused general latrine in the district jail at Calicut into a civil debtors' jail, Rs. 3,869.

Registrar's office at Coimbatore, Rs. 4,116.

Registrar's office at Mangalore, Rs. 4,227.

Sub-registrars' offices at Karkal, Rs. 2,905, and Tertolla, Rs. 2,707.

District munsif's court at Tellicherry, Rs. 13,204.

Sub-registrar's office at Alatur, Rs. 2,518.

93. The following works were in progress:—

Additions to the Collector's cutcherry at Mangalore, total outlay Rs. 22,338.
 District munsif's court at Coondapoor, total outlay Rs. 7,313.
 District munsif's court at Puttur, total outlay Rs. 9,700.
 Sub-magistrate's court at Kuttaparamba, outlay Rs. 10,909.
 Sub-registrar's office at Beltangady, outlay Rs. 2,070.
 Sub-registrar's office at Coondapoor, outlay Rs. 2,070.
 Improvements to the taluk cutcherry at Chittur; work almost completed outlay Rs. 7,320.
 Improvements to the taluk cutcherry at Udipi, outlay Rs. 2,914.
 Improvements to the huzur treasury at Coimbatore, outlay Rs. 2,897.
 Residence for the Head Assistant Collector of Pollachi, outlay Rs. 3,430.

94. An estimate of Rs. 21,935, for a close prison at Coimbatore, was sanctioned, for execution by the Jail Department, and work to the extent of Rs. 3,571 was carried out.

95. The purchase, for Rs. 45,000, of Messrs. Stanes and Company's property at Calicut was completed during the year, and an estimate of Rs. 95,240 has since been sanctioned for converting it into law courts.

96. **North Arcot.**—A sum of Rs. 18,155 was spent on the taluk cutcherry at Walajapet, bringing the total outlay to the end of the year to Rs. 32,738, against an estimate of Rs. 35,270. The work was almost completed.

97. A residence for the superintendent of the central jail at Vellore was in progress. The total expenditure was Rs. 20,481, on an estimate of Rs. 26,080.

98. A cellular prison at Vellore was commenced on an estimate of Rs. 40,970, and Rs. 10,824 were spent on the work during the year.

99. A registrar's office at Chittoor, sub-registrars' offices at Puttur, Arcot, Polur, and Wandiwash, and police huts at Madarpak were commenced, and the last four were completed.

100. **Nilgiris.**—The expenditure during the year on Government House, Ootacamund amounted to Rs. 1,19,673, bringing the total outlay to Rs. 5,77,790.

101. Additions and improvements to the Government offices on Stonehouse Hill were almost completed. The total outlay on the work amounted to Rs. 53,379.

102. The property known as "Cinchona Villa" was purchased for Rs. 15,000 as a residence for the Director of Government Parks and Gardens, and was fitted for occupation at a further cost of about Rs. 2,000.

103. Barracks for a detachment of Sappers and Miners at Ootacamund were built at a cost of Rs. 23,418.

104. Quarters for three married or six single Secretariat clerks were in progress. The outlay to the end of the year amounted to Rs. 9,073.

105. "Ottley Hall" was purchased for Rs. 23,000 as quarters for married clerks of the Secretariat.

106. The "Bombay Castle" property was purchased by Government for Rs. 77,000 for the accommodation of the offices of the army headquarters staff, and about Rs. 8,000 were spent on the necessary improvements. Funds for this service were allotted under Provincial, but the incidence of the charge has not yet been finally decided.

107. The conversion of a cattle-shed into a latrine for the boys of the Lawrence asylum, was in progress on an estimate of Rs. 2,650. The Government of India declined to allot funds for this work under Military, and, as it was required on urgent sanitary grounds, a grant was made by the Local Government, under Provincial.

108. The cinchona buildings at Naduvattam were nearly completed; the total expenditure to the end of the year amounted to Rs. 36,335.

109. Two blocks of lines for coolies on Stonehouse Hill were constructed at a cost of Rs. 2,457.

110. A record-room was added to the Collector's cutcherry at Ootacamund at an outlay of Rs. 3,422.

111. A telegraph office at Devála was completed; outlay Rs. 13,691.

112. The memorial to the Right Honorable W. P. Adam, alluded to in the previous year's Administration Report, was completed during the year under review. The total outlay amounted to Rs. 10,065.

113. New teak railings were provided for the cemetery at St. Thomas' church at a cost of Rs. 4,409.

114. **Presidency and Bangalore.**—Improvements to Government House at Madras were carried out at a total outlay (including that of the previous year) of Rs. 18,316, against an estimate of Rs. 19,353.

115. Ornamental enclosure walls along the eastern and western boundaries of St. Andrew's kirk were completed at a cost of Rs. 4,998.

116. A sum of Rs. 3,000 was contributed towards the construction of a chapel for the military female orphan asylum.

117. Improvements to the laboratory of the Chemical Examiner, Madras, were completed, with the exception of the gas works portion of the project. The expenditure amounted to Rs. 20,847, against an estimate of Rs. 22,900.

118. A compound-wall for the women's and children's hospital was constructed at a cost of Rs. 4,648.

119. An out-patients' dispensary and mortuary at the general hospital were completed at an expenditure of Rs. 19,031.

120. A Benham's cooking range was provided and set up at the general hospital at a cost of Rs. 3,459.

121. The water-supply of the general hospital was improved at an outlay of Rs. 3,968.

122. Sheds for the leper hospital at Rayapuram were constructed for Rs. 16,249, and Rs. 2,015 were spent, against an estimate of Rs. 4,980, on improvements to quarters of the apothecary attached to the same hospital.

123. The construction of a chancel to St. Mary's church, Fort St. George, was in progress. The expenditure was Rs. 2,275, against an estimate of Rs. 5,370.

124. Improvements to the Government Press, Fort St. George, were carried out at a cost of Rs. 2,238, and a store-room and compound-wall for the printing office in the penitentiary were built for Rs. 6,280.

125. Twenty-three minor new works were put in hand at Madras, and twenty-two completed; the total expenditure was Rs. 11,108.

126. One-hundred and fifty repair works at Madras and eight at Bangalore were in progress.

127. The following works were carried out, wholly or in part, in the Consulting Architect's division:—

Additions to the zenana of the Amir Mahal. The total expenditure to the end of the year amounted to Rs. 61,490, against an estimate of Rs. 74,881.
 Additions to the Public Works offices at Chapak. A handsome façade to the main building was completed, and an upper story on the south wing was in progress. The total expenditure amounted to Rs. 77,006, against an estimate of Rs. 97,669.

Improvements to the Government Central Museum; work completed at a cost of Rs. 10,928.

128. **Chingleput.**—An upper story for the agricultural college at Saidápet was completed at an outlay of Rs. 11,037.

129. Additions and alterations to the taluk cutcherry at Ponnéri were in progress; expenditure Rs. 3,444, against an estimate of Rs. 3,665.

130. **South Arcot.**—No progress was made on the Collector's cutcherry at Cuddalore. The expenditure to the end of the year (Rs. 1,760) was incurred in the collection of materials.

131. A new taluk cutcherry at Tiruvadi was completed at a cost of Rs. 10,773.

132. A sea-customs house at Porto Novo was constructed at a cost of Rs. 3,521.

133. Improvements to the Head Assistant Collector's cutcherry at Vriddhachalam were carried out at an outlay of Rs. 5,635.

134. Improvements to the Sub-Collector's residence and office at Tindivanam were nearly completed.

135. A registrar's office at Cuddalore was built at a cost of Rs. 4,121.

136. A subsidiary jail with out-houses at Mannargudi was completed.

137. Eleven minor new works were in progress and three were completed.

138. **Trichinopoly.**—The following works were in progress:—

A taluk cutcherry at Perambalur, total expenditure Rs. 17,213.

District munsif's courts at Ariyalur and Kulitalai, total expenditure Rs. 10,522 and Rs. 14,110; both works were nearly completed.

Sub-registrar's office at Thoranyur; expenditure Rs. 2,357; work almost finished.

Sub-registrar's office at Jeyacondasholapuram; expenditure Rs. 1,850.

139. A treasury-room in the Collector's cutcherry at Trichinopoly was completed.

140. Improvements to the Deputy Collector's cutcherry at Ariyalur were completed at a cost of Rs. 2,826.

141. **Tanjore.**—A district registrar's office at Tanjore was completed at a total cost of Rs. 11,977.

142. A building at Máyavaram, begun as a Deputy Collector's office, was subsequently finished off as a district munsif's court; outlay Rs. 6,286.

143. Improvements to the court-house at Tranquebar were carried out at a cost of Rs. 3,646.

144. The expenditure during the year on the district jail at Tanjore amounted to Rs. 55,820, bringing the total outlay to Rs. 74,094.

145. A district munsif's court at Tiruvádi was almost completed; expenditure Rs. 10,831.

146. A division office at Tanjore was in progress on an estimate of Rs. 11,920.

147. A police station at Kumbakonam was in progress.

148. Improvements to the Deputy Collector's office at Tanjore were carried out at a cost of Rs. 2,219.

149. The construction of a cemetery at Pudupatnam was in progress on an estimate of Rs. 3,170.

150. A powder magazine at Tanjore was completed at a cost of Rs. 1,780.

151. Police stations at Tanjore and Kornad, a sub-jail at Nannilam, and a munsif's court at Shiyáli were in progress.

152. The outlay during the year on repairs to the Tanjore palace amounted to Rs. 23,985, bringing the total expenditure to Rs. 81,950.

153. The Tiruvadamardur palace was repaired at a cost of Rs. 3,981.

154. **Tinnevely.**—The expenditure during the year on the new district jail at Palamcottah amounted to Rs. 2,053, and was incurred chiefly in completing wells and collecting bricks. Four radial blocks, the construction of which had been held in abeyance, were put in hand and the work was in progress.

155. A third-class taluk cutcherry at Virudupati was almost completed. Police huts at Etaiyapuram, Manur, Vachakaraputty, Vagaikolam and Swagiri, and a police station at Vachakaraputty were completed or in progress.

156. The tower of Christ church at Trivandrum was reconstructed at a cost of Rs. 1,989.

157. **Madura.**—The expenditure during the year in connection with the restoration of Tirumal Naick's palace amounted to Rs. 30,001, bringing the total outlay on the work to Rs. 2,31,962.

158. The provision of accommodation for female prisoners in the district jail at Madura was completed at a total cost of Rs. 11,568.

159. A third-class sub-magistrate's cutcherry at Tiruvadanai was completed at an outlay of Rs. 11,994.

160. Improvements to the Sub-Collector's cutcherry at Dindigul were carried out at a cost of Rs. 2,838.

161. A deputy tahsildar's cutcherry at Kodaikānal was commenced on an estimate of Rs. 11,160. Fair progress was made although work was retarded by difficulties of transport, &c. The outlay during the year amounted to Rs. 4,778.

162. Improvements to the out-houses of the Sub-Collector's bungalow at Dindigul were carried out at a cost of Rs. 2,150.

163. A district munsif's court at Sivaganga was in progress; outlay Rs. 6,100, against an estimate of Rs. 14,900.

164. **Negapatam.**—A sub-registrar's office at Negapatam was completed at a cost of Rs. 1,847; an additional room to the deputy tahsildar's cutcherry at Vadarniem was provided at a cost of Rs. 1,978, and another to the taluk cutcherry at Patukōta for Rs. 1,229.

165. A sub-magistrate's cutcherry at Arantāngi was almost completed; outlay Rs. 10,827.

166. Improvements to the district munsif's court at Tiruturaipūndi were almost finished.

167. Additional accommodation in the district munsif's court at Negapatam was provided at a cost of Rs. 3,201.

168. A deputy tahsildar's cutcherry at Mannargudi, a sub-magistrate's cutcherry at Negapatam, and additions to the Executive Engineer's office were in progress.

IV.—PROVINCIAL—COMMUNICATIONS.

169. **Vizagapatam.**—The expenditure on the new Pottinghi ghāt amounted to Rs. 1,02,704, bringing the total outlay on the work, to the end of the year, to Rs. 4,10,262. A complete revised estimate for the work, amounting to Rs. 4,25,391, and a maintenance estimate of Rs. 4,010, for the first 10 miles, were sanctioned during the year.

170. **Godavari, East.**—Rs. 6,610 were spent during the year on the maintenance of the navigation works at Dumagudiem, and 914 boats and 826 rafts passed through the canal.

171. **Madura.**—The completion of the road from Cumbum to the foot of the Cuddalore-Poornand ghāt (estimate Rs. 73,748) and repairs to the ghāt-road (estimate

16 ADMINISTRATION REPORT OF THE P.W.D., GENERAL, BUILDINGS AND ROADS BRANCH.

Rs. 11,460) were in progress under the Local Fund Engineer, from funds supplied by the Public Works Department. The total expenditure on the works to the end of the year amounted to Rs. 27,455 and Rs. 9,825, respectively.

V.—PROVINCIAL—MISCELLANEOUS PUBLIC IMPROVEMENTS.

172. **Nilgiris.**—The expenditure during the year on improvements to the station of Ootacamund amounted to Rs. 44,358, bringing the total outlay to Rs. 84,131. Rs. 2,588 were also spent, against an estimate of Rs. 10,400, on improving the slopes of Elk Hill cutting, and Rs. 3,832 were expended in lowering the weir of the lake and attending to its conservancy.

173. **Presidency.**—The expenditure to the end of the year on widening the south beach promenade and other improvements at Chepāk amounted to Rs. 47,050, and on improvements in the Chepāk park to Rs. 7,437.

174. A sum of Rs. 2,858 was spent on the conservancy of the Kuam river, and in opening and closing the bar.

VI.—LOCAL—CIVIL BUILDINGS.

175. **Ganjam.**—The reconstruction of the school-house at Russellkonda was in progress expenditure Rs. 1,025, against an estimate of Rs. 1,680.

176. **Godavari, East.**—Additions to the Rajahmundry college were nearly completed; expenditure Rs. 5,456, against an estimate of Rs. 6,900.

177. **North Arcot.**—The outlay on the Chittoor high school amounted to Rs. 16,807; bringing the total expenditure to the end of the year to Rs. 23,855.

178. **South Arcot.**—Improvements to the taluk school at Tirukoilūr were completed at a cost of Rs. 1,395.

179. **Negapatam.**—An Anglo-vernacular school-house at Tiruvalūr was in progress outlay Rs. 4,443, against an estimate of Rs. 9,500.

VII.—LOCAL—COMMUNICATIONS.

180. **Godavari, East.**—The expenditure on the Covur-Munjair junction canal amounted to Rs. 13,991, bringing the total expenditure to the end of the year to Rs. 78,714 against an estimate of Rs. 1,66,210. The Kurada aqueduct and sluices to irrigation channels at Salapaka were completed, and the earthwork of the canal nearly so.

181. **South Arcot.**—Five roads along river and tank banks were maintained at a cost of Rs. 4,553.

182. **Tanjore.**—Rs. 12,696 were spent by the department in forming and repairing roads in the Tanjore division.

VIII.—LOCAL—MISCELLANEOUS PUBLIC IMPROVEMENTS.

183. **Vizagapatam.**—A sum of Rs. 7,082 was spent in the construction of a rough-stone groyne in the port of Bimlipatam. The estimate for the work amounted to Rs. 9,870.

184. **Kistna.**—Materials were collected for the construction of a landing stage at the Bezvāda ferry, but progress on the work was prevented owing to the prevalence of cholera.

185. **Negapatam.**—Improvements to the port of Negapatam were carried out at a cost of Rs. 5,930, and revetting the inner slopes of the boat basin was in progress; outlay Rs. 7,066.

APPENDIX

TO

ADMINISTRATION REPORT

OF THE

PUBLIC WORKS DEPARTMENT, MADRAS,

(GENERAL, BUILDINGS AND ROADS BRANCH,)

FOR THE YEAR 1883-84.

The general results of the year's working may be gathered from the following tables supplied by the Examiner, Public Works Accounts:—

APPENDIX TO ADMINISTRATION REPORT OF THE PUBLIC WORKS

[illegible]

No. 1.—Statement showing Outlay compared with Grant under Departmental Heads—continued.

[illegible]

No. II.—STATEMENT showing Outlay under Funds, Departmental and Service Heads.

Fund.	Class—Departmental and Service Heads.	Outlay.	Total.
		RS.	RS.
Imperial.	Military—		
	Original Works	1,97,155	
	Repairs	2,76,512	
	Establishment	1,09,439	
	Tools and Plant	7,074	
	Less Expenditure in England	...	5,90,180
	Civil Buildings, Roads and Services—		
	Civil Buildings—		
	Original Works	2,03,968	
	Repairs	6,994	
	Communications—		
	Original Works	...	
	Repairs	...	
	Miscellaneous Public Improvements—		
	Original Works	...	
	Repairs	...	
	Establishment	44,411	
	Tools and Plant	3,137	
	Less Expenditure in England	3,952	2,54,558
	Madras Harbour Works—		
	Productive Public Works—		
	Works	...	
	Establishment	...	
	Tools and Plant	...	
	Other Public Works—		
	Works	1,59,857	
	Establishment	68,694	
	Tools and Plant	7,725	
	Suspense Balance—		
	Stock	7,266	
	Stock Purchases and Sales	13,388	
	Miscellaneous Advances	5,032	
	London Invoices	2,450	
	Do. Stores	490	2,24,858
Provincial.	General—		
	Civil Buildings—		
	Original Works	11,85,784	
	Repairs	1,49,576	
	Communications—		
	Original Works	1,29,164	
	Repairs	40,910	
	Miscellaneous Public Improvements—		
	Original Works	80,376	
	Repairs	8,014	
	Establishment	5,38,370	
	Tools and Plant	42,038	
	Profit and Loss	1,561	
	Suspense Balance—		
	Stock	47,891	
	Stock Purchases and Sales	7,162	
	Miscellaneous Advances	45,746	
	London Invoices	6,104	
	Do. Stores	4,241	21,95,445
Local.	Incorporated—		
	Civil Buildings—		
	Original Works	919	
	Repairs	...	

Statement showing Outlay under Funds, Departmental and Service Heads—continued.

und.	Class—Departmental and Service Heads.	Outlay.	Total.
		RS.	RS.
Local—continued.	Incorporated—(cont.)—		
	Communications—		
	Original Works	24,098	
	Repairs	22,953	
	Miscellaneous Public Improvements—		
	Original Works	447	
	Repairs	29,866	
	Establishment	632	
	Tools and Plant	...	78,915
	Excluded—		
	Civil Buildings—		
	Original Works	30,275	
	Repairs	8,819	
	Communications—		
	Original Works	...	
	Repairs	...	
	Miscellaneous Public Improvements—		
	Original Works	13,718	
	Repairs	3,498	
	Establishment	14,150	
	Tools and Plant	842	71,302

No. III.—STATEMENT showing Outlay compared with Grant under Departmental and Service Heads.

IMPERIAL.															
Sub-heads.	MILITARY.					CIVIL BUILDINGS, ROADS AND SERVICES.					MADRAS HARBOUR.				
	Original Budget Grant.	Revised Estimate.	Outlay.	Outlay compared with Revised Estimate.		Original Budget Grant.	Revised Estimate.	Outlay.	Outlay compared with Revised Estimate.		Original Budget Grant.	Revised Estimate.	Outlay.	Other Public Works.	
				More.	Less.				More.	Less.				More.	Less.
Military	Rs. 2,06,787	Rs. 2,08,322	Rs. 1,97,155	Rs. ..	Rs. 11,167	Rs. 2,02,450	Rs. 2,02,200	Rs. 2,03,968	Rs. ..	Rs. 1,768	Rs. ..	Rs. ..	Rs. ..	Rs. ..	Rs. ..
Civil Buildings .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Communications .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Miscellaneous Public Improvements .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Total	2,06,787	2,08,322	1,97,155	..	11,167	2,02,450	2,02,200	2,03,968	..	1,768	..	..	1,59,857	..	..
Military	Rs. 2,75,000	Rs. 2,70,329	Rs. 2,76,512	Rs. 6,183	.. .. .	Rs. 8,000	Rs. 8,500	Rs. 6,994	Rs. 1,506	.. .. .	Rs. 1,506	.. .. .	.. .. .	.. .. .	.. .. .
Civil Buildings .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Communications .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Miscellaneous Public Improvements .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .	.. .. .
Total	2,75,000	2,70,329	2,76,512	6,183	..	8,000	8,500	6,994	1,506	..	1,506	..	..	..	..
Establishment	Rs. 1,12,283	Rs. 1,11,029	Rs. 1,09,439	Rs. 2,190	..	Rs. 48,400	Rs. 48,400	Rs. 44,411	Rs. 3,989	..	3,989	..	68,084	..	..
Tools and Plant .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	..	Rs. 3,150	Rs. 3,200	Rs. 3,137	Rs. 63	..	63	..	7,725	..	..
Profit and Loss .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	..	.. .. .	.. .. .	.. .. .	.. .. .	..	.. .. .	..	..	..	..
Add net increase of Suspense Balances .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	..	.. .. .	.. .. .	.. .. .	.. .. .	..	.. .. .	..	4,030	..	..
Grand Total	6,01,300	5,97,400	5,90,180	6,183	13,403	2,62,000	2,62,300	2,68,610	5,558	1,768	5,558	1,30,000	2,24,856	44,856	..
Less Expenditure in England .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	..	.. .. .	.. .. .	Rs. 3,952	..	..	..	..	..	..	..
Net Total	6,01,300	5,97,400	5,90,180	6,183	13,403	2,62,000	2,62,300	2,64,558	5,558	1,768	5,558	1,30,000	2,24,856	44,856	..
Net Excess .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	..	.. .. .	.. .. .	.. .. .	.. .. .	..	.. .. .	..	..	44,856	..
Net Saving .. .. .	.. .. .	.. .. .	.. .. .	.. .. .	7,220	.. .. .	.. .. .	.. .. .	.. .. .	..	3,790	..	..	..	..

Statement showing Outlay compared with Grant under Departmental and Service Heads—continued.

[illegible]

Circle.	Divisions.	IMPERIAL.				PROVINCIAL.		LOCAL.				IRRIGATION.		Total.	Establishment.	Grand Total.		
		MILITARY.		CIVIL BUILDINGS, ROADS AND SERVICES.		OTHER PUBLIC WORKS.		Original Works.	Repairs.	INCORPORATED.		EXCLUDED.					Original Works.	Repairs.
		Original Works.	Repairs.	Original Works.	Repairs.	Original Works.	Repairs.			Original Works.	Repairs.	Original Works.	Repairs.					
I Circle.	Ganjam ..	Rs. 1,047	Rs. 2,329	Rs. 798	Rs. 178	Rs. ..	Rs. ..	Rs. 8,202	Rs. 5,084	Rs. ..	Rs. 1,024	Rs. ..	Rs. 6,474	Rs. 20,066	Rs. 44,192	Rs. 25,905	Rs. 70,097	
	Visakhapatnam ..	424	4,751	3,109	534	..	..	1,30,280	7,319	..	7,708	..	1,637	5,061	1,60,813	68,921	2,29,734	
	Eastern Godavari ..	50	557	8,055	151	..	..	49,474	7,659	..	5,456	..	1,31,746	95,187	3,14,623	1,02,034	4,16,657	
	Western do. ..	..	..	..	..	..	..	9,741	491	..	-30	..	1,10,409	95,665	2,16,276	64,714	2,80,990	
II Circle.	Central do. ..	..	..	..	..	..	..	387	1,634	..	..	..	1,52,310	54,957	2,09,288	45,491	2,54,779	
	(A) Project Division ..	..	..	..	..	..	..	..	..	..	..	..	271	271	271	3,803	4,074	
	Eastern Kistna ..	..	..	..	..	..	..	14,269	96	..	2	..	1,07,696	79,146	2,05,938	78,101	2,84,039	
	Western do. ..	..	..	..	..	..	..	10,858	51	..	225	..	1,49,914	74,687	2,35,735	49,968	2,85,703	
III Circle.	Nellore ..	..	..	1,745	..	..	..	20,822	4,601	..	..	..	30,131	76,853	1,34,152	42,600	1,76,752	
	Sangam Project Division ..	..	..	..	..	..	..	118	..	..	..	..	4,54,899	4,784	4,60,098	64,018	5,24,116	
	Godavāra ..	..	..	..	..	..	..	4,728	..	..	..	..	92,734	12,722	1,10,184	32,687	1,42,871	
	Bellary ..	Rs. 35,162	26,629	..	224	..	..	40,215	4,426	..	..	..	10,384	29,116	1,26,156	60,672	1,86,828	
IV Circle.	Cuddapah ..	..	..	..	76	..	..	21,682	1,378	..	..	..	7,129	22,145	29,116	52,410	76,545	
	Kurnool ..	..	..	235	217	..	..	2,402	661	..	..	..	3,686	6,835	14,235	23,874	38,109	
	Kurnool Canal ..	..	..	..	..	..	..	..	..	..	..	..	1,63,375	1,10,683	2,73,958	67,881	3,41,839	
	(C) Project Division ..	..	..	..	..	..	..	..	..	..	..	..	327	..	8,235	8,762	9,089	
V Circle.	Nilgiris ..	Rs. 9,555	16,975	20,739	1,322	..	..	3,06,174	15,212	..	..	..	46,938	51,670	3,68,767	40,288	4,09,056	
	Coimbatore ..	48,968	32,664	981	1,312	..	..	1,49,212	4,697	..	1,165	2,374	10,998	18,486	3,38,881	1,56,392	4,44,273	
	Salem ..	492	2,864	17	26	..	..	8,409	1,173	..	..	..	16,166	74,483	1,68,473	23,916	2,12,766	
	Barur Project ..	2,931	2,688	90	160	..	..	51,542	3,606	..	16,807	..	16,166	74,483	1,68,473	23,916	2,12,766	
VI Circle.	(B) Project Division ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	South Arcot ..	..	..	65	..	..	..	23,092	3,290	..	896	..	36,748	1,02,632	1,74,648	68,624	2,43,272	
	Chingleput ..	43,907	33,225	143	377	..	..	18,588	12,763	..	403	113	61,091	87,180	2,47,274	50,582	2,97,856	
	Buckingham Canal ..	..	..	..	..	..	..	..	..	..	..	..	2,02,738	1,23,663	3,26,817	62,661	3,79,481	
VII Circle.	Presidency ..	99,213	1,49,364	..	..	..	..	1,02,947	78,687	..	387	5,567	20,702	72,049	1,36,981	76,469	2,12,450	
	Trichinopoly ..	3,671	3,157	..	..	..	..	83,660	1,638	..	..	..	39,553	84,194	2,49,131	63,335	3,12,466	
	Tanjore ..	..	..	..	..	..	..	83,063	28,308	..	717	..	32,700	66,094	1,34,795	44,428	1,79,223	
	Nagapattinam ..	..	..	..	..	..	..	21,696	261	..	8,501	..	32,700	66,094	1,34,795	44,428	1,79,223	
VIII Circle.	Madura ..	..	..	1,184	57	..	..	74,061	8,929	..	1,204	..	13,624	28,699	1,27,658	38,470	1,66,128	
	Timernally ..	..	..	..	..	..	..	15,874	371	..	..	..	1,03,911	55,652	1,81,841	53,163	2,35,004	
	Cauvery-Venar Regulator ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	Consulting Architect ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
IX Circle.	Madras Harbour ..	..	..	1,57,863	..	..	..	1,02,098	5,662	..	474	2,472	..	..	84,566	16,152	1,00,718	
	Workshops (Downish-veram) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	3,28,569	32,628	3,61,197	
	Workshops, Presidency ..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,24,856	..	2,24,856	
	D. Project ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
X Circle.	Rushikulya ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	Tank ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	Archaeological ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
	Examiner's Division ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Total ..		1,97,155	2,76,512	2,03,968	6,994	2,24,856	..	13,95,324	1,98,500	25,017	23,400	43,993	12,817	31,02,991	17,74,212	64,85,239	19,83,254	84,68,493

Rs. This amount forms a Reserve to the Public Works

STATEMENT of Grants and Outlay appertaining to all Works other than Budget Works.

Fund.	Departmental and Service Heads.	RESERVE.		INCOMPLETE WORKS.		NEW WORKS.		Total Outlay, Columns 6-8.
		Budget.	Final.	Number.	Outlay.	Number.	Outlay.	
1	2	3	4	5	6	7	8	9
Imperial.	Military—	Rs.	Rs.		Rs.		Rs.	Rs.
	Original Works ...	21,987	23,522	28	30,142	96	30,988	61,130
	Repairs ...	2,75,000	2,72,442	31	5,341	791	2,71,171	2,76,512
	CIVIL BUILDINGS, ROADS AND SERVICES.							
	Civil Buildings.							
	Postal—							
	Original Works ...	12,210	14,440	7	885	16	11,451	12,836
	Repairs ...	5,000	5,000	7	271	34	4,122	4,393
	Telegraph—							
	Original Works ...	6,250	13,250	...	...	3	12,479	12,479
	Repairs ..	3,000	3,000	1	74	7	2,217	2,291
	Salt—							
	Original Works ...	...	1,000	1	1,468	...	...	1,468
	Repairs ...	...	...	...	...	...	...	...
Customs—								
Original Works ...	...	...	...	...	...	...	...	
Repairs ...	...	...	1	310	...	...	310	
Miscellaneous Public								
Improvements—								
Original Works ...	...	...	...	...	...	...	...	
Repairs ...	...	...	...	...	...	...	...	
Civil Buildings—								
Original Works ...	1,25,173	5,67,975	125	2,62,883	204	3,40,929	6,03,812	
Repairs ...	1,20,000	1,51,010	42	44,101	348	1,05,475	1,49,576	
Communications—								
Original Works ...	...	70,338	3	620	6	5,155	5,775	
Repairs ...	37,000	41,472	4	8,309	46	32,601	40,910	
Miscellaneous Public								
Improvements—								
Original Works ...	...	21,163	2	3,463	3	2,091	5,554	
Repairs ...	3,000	7,225	1	3,832	5	4,182	8,014	



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Division.	Work.	Main Head.	Estimate.	Outlay to end of previous Year.	Outlay during Year reviewed.	Total Columns 5 and 6.	Revised Estimate.	More than Revised Estimate.	Less than Revised Estimate.
1	2	3	4	5	6	7	8	9	10
Chingleput ..	Constructing a new barracks for Royal Artillery at St. Thomas Mount	Accommodation for Troops.	1,35,050	37,349	30,040	67,389	30,000	40	..
Do. ..	Barracks for European troops at Poonamallee—	Do. ..	2,70,457	50,988	9,295	60,283	9,335	..	40
•	1. New double-storied barracks for 200 men with out-houses	..	..	..	..	..	..	..	..
..	2. New quarters for 30 families with out-houses	..	..	..	..	..	..	..	..
..	3. New quarters for apothecary	..	..	..	..	..	..	..	..
..	4. Alterations, demolitions to existing buildings	..	..	..	..	..	..	..	..
..	5. Deduct value of old materials	..	..	..	..	..	..	..	..
..	..	..	2,74,762	..	..	..	..	..	..
..	..	..	4,305	..	..	..	..	..	..
..	..	..	2,70,457	..	..	..	..	..	..
Bellary ..	Constructing three blocks of stables for Royal Artillery at Bellary ..	Do. ..	10,000	7,183	1,357	8,540	3,032	..	1,675
Coimbatore ..	Constructing barracks for a detachment of British infantry to accommodate 100 men at Malapuram	Do. ..	1,31,610	10,546	34,984	45,530	32,000	2,984	..
Presidency ..	Additions and alterations to wash-houses for the British infantry at Bangalore	Do. ..	12,500	..	7,946	7,946	8,000	..	54
Trichinopoly ..	Constructing public buildings in the 10th Regiment, Native infantry Lines	Do. ..	14,215	..	3,138	3,138	3,000	138	..
Presidency ..	Improvements to the Gun Powder Factory, (1) altering the bedding of the machinery at the granulating house, (2) constructing a position mill, (3) laying water pipes to the quarters of mill men and overseers, (4) erecting compound wall, (5) converting granulating house into a public machine cutting house and (6) several other subsidiary works at Madras	Do. ..	..	..	..	..	..	..	..
Coimbatore ..	Constructing a bakery and a well at Cannanore	2 Ordnance Works.	2,48,492	1,98,736	16,892	2,15,628	16,935	..	43
Bellary ..	Converting the east wing of the old infantry barracks into a Government bakery	3 Commissariat Buildings.	11,380	..	5,000	5,000	5,000	..	..
Presidency ..	Completing the improvements and improving the store-rooms of the sea coast batteries	Do. ..	12,589	7,364	4,228	11,612	5,205	..	977
Bellary ..	Water supply from the Alipoor tank	8 Fortifications.	48,800	30,511	30,511	30,511	30,000	511	..
Presidency ..	Constructing a fortified post and ordnance depot within do. and a laboratory for ordnance depot	General Cantonment Works.	1,41,628	1,39,740	2,014	1,41,754	2,000	14	..
Do. ..	Constructing a post office at Ootacamund	3 Fortifications.	34,280	3,453	3,453	6,906	8,032	..	4,579
..	Constructing a new post office with additional fittings and fixtures at Madras	6 Post Offices ..	3,16,720	1,82,577	95,526	2,88,103	93,000	2,526	..
Nilgiris ..	Constructing a post office at Ootacamund	Do. ..	24,965	19,721	15,856	19,721	16,790	36	..
Presidency ..	Constructing a new telegraph office with stables at Madras	7 Telegraph works.	2,96,083	2,38,733	62,337	2,96,170	62,000	337	..
Do. ..	Constructing new telegraph office with out-houses at Bangalore ..	Do. ..	15,040	..	2,076	2,076	3,000	..	924
Nilgiris ..	Constructing a new telegraph office at Ootacamund	Do. ..	31,995	28,880	857	29,737	7,000	857	..
Godavari ..	Constructing quarters for telegraph signalmen at Ootacamund ..	Do. ..	31,860	..	7,494	7,494	..	494	..

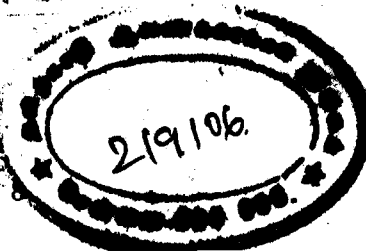
Division.	Work.	Main Head.	Estimate.	Outlay to end of previous Year.	Outlay during Year reviewed.	Total Columns 5 and 6.	Revised Estimate.	More than Revised Estimate.	Less than Revised Estimate.
1	2	3	4	5	6	7	8	9	10
Papendy ..	Laying mosaic marble floor in certain rooms and verandahs and making certain improvements in Government House at Madras ..	Civil Buildings.	19,253	11,993	6,323	18,316	9,276	..	2,953
Nilgiris ..	Telegraph office with out-houses at Devalla	Do. ..	13,776	12,720	971	13,691	1,056	..	89
Do. ..	Government House additions and improvements at Ootacamund ..	Do. ..	7,79,150	4,58,118	1,19,873	5,77,991	1,05,000	14,873	..
Do. ..	Additions and improvements to the Secretariat office, Stone house, at Ootacamund	Do. ..	45,837	20,479	32,900	53,379	30,522	2,378	..
Do. ..	Constructing quarters for three married clerks of the Secretariat, Ootacamund	Do. ..	21,914	7,170	1,903	9,073	4,700	..	2,797
Do. ..	Purchase of the property known as "Ottley Hall" for occupation by married clerks of the Government Secretariat at Ootacamund ..	Do. ..	25,820	..	23,357	23,357	23,550	..	193
North Arcot ..	Constructing tank catchery at Walajapet	Do. ..	35,270	14,628	18,155	32,783	18,242	..	87
South Arcot ..	Do. do. second class at Tiruvadi	Do. ..	17,380	16,189	77	16,266	..	..	..
Do. ..	Do. do. second class at Masanjampuran	Do. ..	31,010	2,396	3,472	10,773	3,716	..	243
Kistna ..	Improvements to the Collector's catchery at Masulipatam	Do. ..	11,845	2,396	6,861	9,257	12,194	..	6,333
Trichinopoly ..	Constructing tank catchery at Dharmapuri	Do. ..	27,050	20,029	5,946	25,975	9,620	..	312
Trichinopoly ..	Thak catchery at Perambalur	Do. ..	29,370	10,860	6,353	17,213	14,338	..	2,267
Coimbatore ..	Additions to the Collector's catchery at Mangalore	Do. ..	26,715	2,031	8,000	32,338	8,414	..	3,617
Bellary ..	Tank catchery at Harpanahalli	Do. ..	31,580	..	9,506	9,506	15,000	..	5,494
Do. ..	Collector's catchery at Anantapur	Do. ..	55,000	..	1,013	1,013	1,000	13	..
Madras ..	Deputy tahsildar's catchery, Kodakinal	Do. ..	11,160	..	4,778	4,778	6,000	..	1,222
Do. ..	Compensation for land taken up for constructing deputy tahsildar's catchery at Tiruvadi	Do. ..	10,500	10,075	47	10,122	..	..	..
Do. ..	Tahsildar's catchery and out-houses at Kadiri	Do. ..	37,833	36,378	928	37,306	927	1	..
Cuddapah ..	Sub Collector's catchery at Madanapalle	Do. ..	14,896	759	2,490	3,249	4,000	..	1,510
Do. ..	First-class tank catchery with out-houses at Polivendla	Do. ..	22,150	..	4,872	4,872	5,000	..	128
Architect ..	Erecting a monument over the grave of the late Right Honorable W. P. Adam at Ootacamund	Do. ..	10,248	3,801	6,264	10,065	6,500	..	236
Do. ..	Providing additional accommodation to the Government Central Museum at Madras	Do. ..	11,615	6,821	6,107	10,928	5,815	..	708
Do. ..	Remodelling the Agricultural College or Government Farm at Saitpet	Do. ..	17,352	11,566	6,628	17,484	5,495	133	..
Chingleput ..	Constructing a new Protestant church at Ootacamund	Do. ..	42,023	31,964	11,037	43,001	11,036	..	2,825
Godavari ..	District jail at Tanjore	Do. ..	14,039	..	3,375	3,375	6,000	..	2,401
Tanjore ..	New jail at Palanocottah	Do. ..	2,11,100	18,274	65,820	74,094	68,221	..	2,401
Trichinopoly ..	Providing accommodation for female prisoners and for a staircase and out-houses in the district jail at Madras	Do. ..	2,06,000	1,25,337	2,063	1,27,390	2,105	..	62
Madras ..	Scheduled jail with out-houses at Kandukur	Do. ..	11,308	11,288	280	11,568	354	..	74
Nellore ..	Constructing a cellular prison at Vellore	Do. ..	10,350	10,437	14	10,441	..	..	..
Coimbatore ..	Constructing a close prison at Coimbatore	Do. ..	40,970	..	10,824	10,824	10,400	424	..
Godavari ..	Proposed water-supply, &c., for improvements of the existing drainage of the central jail at Rajahmundry	Do. ..	21,935	..	3,571	3,571	..	..	1,429
Do. ..	Constructing police headquarter office at Rajahmundry	Do. ..	30,000	285	5,558	5,841	6,000	..	444
Do. ..	Sub-Magistrate's catchery at Arundangi	Do. ..	16,060	12,950	4,143	17,093	4,143	..	..
Do. ..	New court-house at Rajahmundry	Do. ..	10,300	6,016	6,812	16,827	12,000	1,660	..
Trichinopoly ..	District annual's court at Tiruvadi	Do. ..	33,280	..	13,560	13,560	7,845	..	1,069
Do. ..	Do. do. at Arivallur	Do. ..	11,900	4,055	6,776	10,831	4,454	..	278
Do. ..	Do. do. at Kallakudi	Do. ..	13,800	6,365	7,623	14,110	8,113	..	490
Do. ..	Do. do. at Belpatha	Do. ..	16,100	6,487	3,625	10,655	4,289	..	364
Kistna ..	Do. do.	Do. ..	13,620	6,110	..	..	..	..	..

APPENDIX TO ADMINISTRATION REPORT OF THE PUBLIC WORKS

Division.	Work.	Main Head.	Estimate.	Outlay to end of previous Year.	Outlay during Year reviewed.	Total of Columns 6 and 7.	Revised Estimate.	More than Revised Estimate.	Less than Revised Estimate.
1	2	3	4	5	6	7	8	9	10
Malloré	Sub-Magistrate's catcherry at Kōta	Do.	14,750	4,606	7,721	12,327	8,100	..	Rs. 379
Do.	District munsif's court at Kāvālī	Do.	11,000	7,775	2,783	10,558	3,000	..	217
Coimbatore	Do. do. at Coondapoor	Do.	13,380	313	7,000	7,313	7,000	..	..
Do.	Do. do. at Tellicherry	Do.	13,200	1,621	11,583	13,204	11,500	83	..
Do.	Do. do. at Puttur	Do.	17,140	2,500	7,200	9,700	7,200	..	..
Salém	Sub-Magistrate's catcherry at Kēttiparamba	Do.	16,085	..	10,909	10,909	10,909	..	80
Coimbatore	District munsif's court at Tirupattūr	Do.	13,000	12,491	98	12,589	..	..	..
Chingleput	Purchase of Messrs. Stanes and Company's property known as the Calicut Coffee Works for use as Law Courts at Calicut	Do.	95,340	Nil.	46,820	46,820	45,000	1,820	..
Do.	District munsif's court at Poonamallee	Do.	10,370	10,347	21	10,368	..	..	153
Do.	Improvements to the Chemical Examiner's laboratory at Madras	Do.	22,900	4,561	15,986	20,547	16,189	..	..
Do.	Out-patients' ward, dispensary and mortuary at the General Hospital at Madras	Do.	20,360	..	19,031	19,031	..	..	2,631
Do.	Sheds for the Rāyapuram Leprosy Hospital	Do.	18,780	16,249	16,249	16,249	18,780	..	..
Do.	Medical School at the Monegar Choultry	Do.	22,794	24,204	135	24,339	..	..	..
Do.	Additions and improvements to the Public Works offices at Chopal.	Do.	97,689	20,161	56,845	77,006	61,700	5,145	..
Tanjore	Divisional office at Tanjore	Do.	11,920	2,066	3,518	7,769	7,769	..	4,251
Kistna Western.	Executive Engineer's and Overseer's office at Duggersala	Do.	16,219	12,222	3,997	16,191	3,997	..	28
Kistna Eastern.	Residence and an office for the Superintendent Engineer at Beavada.	Do.	26,675	Nil.	850	850	845	5	..
Nilgiris	Purchase of the Bombay Castle property at Ootacamund	Do.	84,710	71,568	13,559	85,127	13,432	127	..
Do.	Do. Cinchona Villa property, repairs and other incidental expenses	Do.	17,000	Nil.	16,986	16,986	17,000	..	14
Coimbatore	Residence for the Head Assistant Collector at Pollachi	Do.	10,580	3,430	3,430	3,430	3,030	400	..
Do.	Purchase of the Brenner property at Tellicherry	Do.	22,000	22,000	150	21,850	..	..	..
North Arcot	Residence for the Superintendent of the Central Jail at Vellore	Do.	26,080	6,819	13,632	20,481	12,200	1,482	..
Madura	Preservation of Tirumal Naik's palace and adaptation for public offices	Do.	1,64,723	2,01,961	30,001	2,31,962	16,000	..	1,607
Nilgiris	Cinchona buildings at Nadeuvaram	Do.	38,220	22,942	13,393	36,335	..	..	..
Do.	Constructing two barracks and latrines at Stone house and one barrack and latrine at Kandāl for a Company of "Queen's Own" Sappers and Miners and hospital to accommodate the sick of the native troops at Ootacamund	Do.	27,320	9,103	14,315	23,418	14,800	6	485
Bellary	House for the Collector at Anantapur	Do.	30,875	..	8,006	8,006	8,000	..	267
Do.	Alterations and additions to the Zenana, Amir Mahal at Rayapet	Do.	13,688	..	83	83	350	..	..
Architect	District registrar's office	Do.	74,881	5,012	56,478	61,490	56,000	478	..
Tanjore	Converting the old barracks into a dwelling house for the Sub-Collector at Ongole	Do.	10,280	10,841	1,136	11,977	1,160	..	24
Madura	Completion of the road from Cambum to the foot of the Gdhalūr ghāt	Do.	11,074	9,786	762	10,548	1,000	..	293
Vinayapattam	New Pottigū ghāt at Jeypore	Do.	73,748	6,769	20,686	27,455	1,14,130	..	11,426
Nilgiris	Security of the road through the Elk-hill cutting at Ootacamund	Do.	4,25,391	3,07,558	1,02,704	4,10,262	2,000	..	588
Do.	Alterations and improvements, &c., to roads in Cherak grounds	Do.	17,614	2,080	5,357	7,437	5,920	..	563
Do.	South Beach promenade, including ride, &c., at Madras	Do.	71,256	24,023	23,027	47,060	11,058	11,969	Nil.
Vinayapattam	Reservoir drainage scheme and Lake sewer at Ootacamund	Do.	2,00,935	39,773	44,358	84,131	..	..	..
Madura	Constructing new house and office for the Assistant Superintendent of Police at Jeypore	Do.	11,260	430	4,119	4,549	4,000	119	..
Do.	Sub-Magistrate's catcherry at Tiruvadanai	Do.	11,785	5,532	6,462	11,994	6,262	209	..
Do.	District munsif's court at Sivagangai	Do.	14,904	..	6,100	6,100	5,000	1,100	..

List of Major Works under Other Incorporated and Excluded Local Funds undertaken during the Year 1883-84, and costing Rs. 10,000 and above.

Division.	Work.	Main Head.	Estimate.	Outlay to end of previous Year.	Outlay during the Year reviewed.	Total of Columns 5 and 6.	Revised Estimate.	More than Revised Estimate.	Less than Revised Estimate.
1	2	3	4	5	6	7	8	9	10
North Arcot	Constructing the school house at Chittoor	Civil Buildings.	41,150	7,048	16,807	23,855	16,750	Rs. 57	Rs. Nil.
Do.	Restoring and improving Road No. 51 from Maneyar along the south bank of Harichandravadi river at Māyavaram	Communications.	33,800	33,339	400	33,739	460	Nil.	80
Do.	Restoring Road No. 63 from Ponari to Kallimodoo at Tiruturai-pundi.	Do.	10,900	9,804	765	10,569	700	86	Nil.
Tanjore	Extending Road No. 70 from Anaikari Chattram to Devikōta	Do.	25,644	8,989	2,894	11,883	15,000	Nil.	1,009
Godavari Eastern.	Kovūr Munjar Junction Canal	Do.	1,66,210	64,723	13,991	78,714	8,000	..	3,803
Kistna Eastern.	Landing stage below the Kistna Anicut	Do.	19,200	Nil.	4,197	4,197	..	..	..



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தமிழ்நாடு ஆவணக்காப்பக நூலகம்,
எறும்பூர், சென்னை-600 008.

புயலினைத்தாள்.

செ எண் :

பு. எண் :

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