M.R.O. 1—77,006—8-6-37.

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works **DEPARTMENT.**

G.O. No. 134—135 Press / Mis.
265-266-267.

Dated 15-1- 1873.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 15th January 1873.

No. 265. Read the following Endorsement of the Controller of Public Works Accounts, dated Fort St. George, 11th December 1872, No. 2,130:—

From the Officiating Accountant-General, Public Works Department, to the Controller of Public Works Accounts of Madras, dated Fort William, 2nd December 1872, No. 226-I.

I HAVE the honour to acknowledge receipt of your letter No. 1,515, dated 7th October 1872, reporting your inability to furnish the Capital and Revenue Accounts of Irrigation Works under the Government of Madras to end of 1871-72, and, in reply, to state as follows.

2. It is readily admitted that much difficulty will be experienced in the preparation of the required account for several of these works, especially for those which have been constructed by Native Governments. But the anticipated difficulty in this respect need not prevent the preparation of an account for the works on which loan funds have been expended. It is certainly the case that you have not the means of showing accurately the revenue derived from such works. But the most reliable information that is available should be given, and when the orders of the Government of Madras requiring the sub-division of the several works into groups have been carried into effect, the capital account can be re-arranged. But, meanwhile, I must ask you to take immediate steps to prepare the series of accounts required in my letter No. 1,732, dated 24th September 1872.

3. For the present, the account may be confined to the thirty works entered in the abstract of financial results and for such other works on which loan funds have been expended, the inclusion of the latter being obviously necessary in order to make the total charge to loan funds correspond with the aggregate charge under extraordinary in the several appropriation accounts. If there are other works the outlay on which was provided from ordinary revenues and the capital expenditure on which is known, there is no objection against including such works in the account. In fact, it should be done, but the account need not be delayed for the purpose.

4. The forms prescribed require the outlay to end of 1870-71 and for 1871-72 to be shown under the following heads for each project:—

From Loan Funds.	Suspense Accounts, including stock.
Works.	From ordinary revenues.
Establishment.	As above.
Plant.	

5. Now, as regards the outlay from loan funds, there ought to be no difficulty in giving the required information, for that is shown in the several appropriation accounts, and it is easy to arrive at the aggregate of the amounts so shown. It is only in the case of the outlay from ordinary revenues that any difficulty will be experienced in ascertaining the actual sum to be debited to the capital account. But with a little trouble this difficulty will be overcome for most of the thirty works to be entered in the return.

6. Of these thirty works the three largest are the Godavery, Kistna, and Pennair Anicut Projects. It is understood that when the late Colonel Anderson was

Chief Engineer of Irrigation for Madras, he prepared a series of statements showing the outlay from commencement to end of 1864-65 or 1865-66, on each of these projects. These statements should be obtained from the Chief Engineer's Office and made the basis of the entries for capital outlay on the projects referred to.

7. To the entries shown in the statements the outlay of succeeding years should be added. That outlay so far as the expenditure on works is concerned is easily obtainable from the "detail of expenditure on agricultural works," a copy of which has been furnished to your office. For establishment the figures should be arrived at in the manner mentioned in Colonel Strachey's report on Irrigation Finance and Management. And for tools and plant a proportion of the total expenditure in the Madras Presidency should be entered. The total thus arrived at will differ from the figures given in the abstract of financial results, but this is only to be expected.

8. Two other works to be entered in the statement are the Madras Water Supply Project and the Chembrumbaukum Tank Project. Commenced in 1866-67 and 1867-68 there ought to be no difficulty in your entering the exact sums spent on each of these projects. But I deem it necessary to ask you to take particular care that the capital account of the works is debited with a proper share of the cost of establishment. The same remark applies to the case of the Streeviguntum Anicut Project, a work which was commenced in 1866-67 only.

9. These six works are the largest of the thirty works referred to. For the remainder of these thirty works it is left to you to determine, in consultation with the Chief Engineer, how the capital outlay may best be arrived at for *present use.* If no other information is available the figures given in the abstract of financial results as outlay to end of 1861-62, added to the subsequent outlay since that year as shown in the volume mentioned in paragraph 7, may be entered as the capital outlay to end of 1870-71. For 1871-72, the outlay should be ascertained from the records in your office.

10. For the Revenue Account there is no option at present but to take for the results to end of 1870-71 the figures given in the abstract of financial results with such corrections as entries in the volume referred to above may necessitate. But those figures should first be modified by the inclusion of charges which have been omitted from the accounts. Thus in the case of the Godavery and Kistna Delta Works the charges for Conservancy and Executive Establishments from 1867-68 to 1870-71 have been omitted. Their amounts should be ascertained and added to the account. The like course should be followed as regards the receipts from navigation and plantations which appear to have been excluded from the returns. In fact the account should be carefully examined and all omissions whether under Capital or under Revenue filled in.

11. As regards the revenue charges of 1871-72, there ought to be no difficulty in ascertaining the amounts to be debited to the Revenue Account of each of the several projects referred to. These charges consist chiefly of outlay on works not debitable to capital, expenditure on repairs, and proportion of charges for establishment and tools and plant. The two former can be obtained from the

Proceedings of the Madras Government, Public Works Department,
15th January 1873.

records of your office while the amount of the latter can easily be calculated. It is only where the receipts are concerned that the matter becomes difficult.

12. Of these receipts the revenue derived from navigation and plantations and other miscellaneous items is obtainable from your records. For the other receipts there is no alternative at present but to accept the figures given by the Collector and the Board of Revenue, and the returns should be prepared accordingly.

13. But the figures should not be accepted implicitly. They should be sifted in such a manner as the Chief Engineer for Irrigation may think best. One way in which this can be done is by the area of land irrigated during the year. That area ought to be known. The area so served multiplied by what would be a fair charge for water rates would indicate what the direct revenue from the canal (if the charge for water was a distinct one) would be; a fair rate for water may perhaps be determined by what is levied on Zemindari lands in the Godavery District; but in preparing this portion of the account you will doubtless obtain valuable assistance from the Chief Engineer for Irrigation, as its main object is to illustrate the value of the operations directed by that Officer. And if the results thus produced differ considerably from the amounts reported by the Collector as the revenue to be credited to irrigation works, the cause of the difference, if appreciably large, may well be inquired into. It does not follow that the difference is necessarily an error, for it may be due to several causes. But the causes should form the subject of discussion and inquiry. The submission of the returns should, however, on no account be delayed for the result of the discussion. That is a matter for detailed correspondence, and pending which the returns should not be kept back.

14. I notice that in the orders of the Government of Madras on the preparation of these accounts the expenditure on new works and repairs is to be ascertained since 1856-57 only, "that being the date of the transfer of the executive of public works to the professional department." But if the records of the outlay previous to 1856-57 are available, I do not see any reason why the outlay recorded in them should not be ascertained and classified. The Local Accountant-General should be asked to admit of access to these records, as it is very probable that they are in his office.

15. However this may be, it is necessary that immediate steps should be taken by you to classify the expenditure on Irrigation works from such date as the records can be found by projects and heads of service. This should be done in the form and under the heads given in the "detail of expenditure on Agricultural works from 1862-63 to 1870-71." As the amounts when arranged in that form can easily be re-classified according to any new sub-divisions or heads which the result of the inquiries instituted by the Local Government for making up capital accounts may necessitate. It is observed that the process of arriving at the amounts is left, by the orders of the Government of Madras, to be determined after the sub-division of the several irrigation works into groups has been made, but the primary classification of the outlay need not be delayed for want of this information. It should be entered upon at once, and I look to you to see that this is

done without delay. In this view, I request that you will make immediate arrangements for setting an experienced Accountant to work with such additional establishment as may be necessary to get at the figures. This should be done under your own personal supervision, and the first steps necessary for the purpose, in addition to obtaining from the Local Accountant-General such records as may be in his possession, is to ask Superintending Engineers for any papers that may be in their offices bearing on the subject, and the sanction of the Chief Engineer should be obtained to a search being made amongst his records for annual progress reports and other documents of a similar nature which may be of use to you in the classification of the outlay.

16. It is admitted that this duty will render necessary an additional temporary establishment, such an establishment should not cost more than Rupees 300 or 400 per mensem, and I would therefore advise you to apply to the Government of Madras for the entertainment of competent Accountants and Clerks for a period of six months. At the head of the establishment so entertained should be placed an experienced Accountant of your office, who would be able to determine, by a reference to the Irrigation Map of the Madras Presidency, to what project, or under what head, the outlay on any particular work should be classified. And to the work of this establishment your continual and personal attention should be devoted, the matter being important, and the orders of the Government of India as well as those of the Secretary of State rendering it absolutely necessary that the most accurate information on the subject that is available should be obtained.

17. In the preparation of the returns prescribed in my letter No. 1,732, dated 24th September 1872, the opportunity should be taken to recast the "Abstract of financial results of Irrigation works under the Government of Madras." This should be done in the following form :—

| | | |

18. To summarize what is required is as follows :—

I.—Preparation and submission of the Capital and Revenue Accounts for 1871-72 and up to end of 1871-72 for the thirty works entered in the abstract of financial results and for such other works on which loan funds have been expended.

These accounts are urgently required and must be submitted by the 15th January next.

II.—Revision of the abstract of financial results according to the form given above.

The revised return must be submitted with or immediately after the returns mentioned in Clause I.

III.—Preparation of returns showing the outlay on Irrigation works under Government of Madras from the earliest period for which records are available.

These returns are required to be prepared in somewhat the same form and under the same heads as the "detail of expenditure on Agricultural works from 1862-63 to 1870-71," and the sanction of the Government of Madras is to be obtained to the entertainment of an additional establishment for the purpose. This establishment, if necessary, may be employed in the completion of returns, Nos. 1 and 11.

19. It is hardly necessary for me to issue detailed instructions as to the manner in which account No. III. should be prepared. But I may remark that it would be desirable, in order to avoid error, that in classifying the outlay the accounts of each year should be exhausted, and it would be desirable that this office should be kept from time to time informed of the progress made in doing this.

20. To avoid extra work the opportunity should be taken in the preparation of statement No. III. to get out the figures required by the Secretary of State in his Despatch No. 75, dated 31st August 1869.

21. In conclusion, I have to inquire whether there is not some omission in the orders issued by the Government of Madras in paragraph 12 of its Resolution No. 1,102, dated 30th April 1872, for determining the amounts of land revenue irrigated.

SUBMITTED for the information of Government with reference to the correspondence as per margin, which was laid before His Excellency in Council through the Chief Engineer for Irrigation.

1 Printed Statement.
1 Application.
From Accountant-General, Public Works Department, No, 1,732, dated 24th September 1872.
To Accountant-General, No. 1,515, dated 7th October 1872.
To Acting Chief Engineer for Irrigation, No. 1,521, dated 8th October 1872.

2. The returns in connection with Irrigation Works which the Accountant-General of the Public Works Department requires this office to furnish are the following :—

I.—Capital and Revenue Accounts up to 31st March 1871 and for 1871-72 (in the forms at pages 13 to 17 of the series of accounts accompanying the Government of India's Circular No. 80, dated 29th December 1871) for the thirty works entered in the abstract of financial results for 1870-71 and for such other works as may have had loan funds expended upon them.

II.—Revised abstract of financial results up to 1871-72, according to form given in present letter.

III.—Returns showing the outlay, duly classified by projects and heads of service, on irrigation works under the Government of Madras *from the earliest period* for which records are available. These to be prepared in the form and under the heads given in the accompanying printed statement.

3. I will at once apply to the Accountant-General of Madras and the several District Engineers for any records which they may have in connection with past Irrigation expenditure, and will have my own records examined for the purpose of tracing accounts and papers which may be of use in the compilation of the required returns. It is, however, simply impossible for my establishment to undertake the heavy additional work which the preparation of these returns will entail. The details required for statements I. and II. above are doubtless forthcoming, and may be so worked up as to furnish the information required, but as regards No. 3 its preparation will probably be found impracticable in any form, certainly so in detail. Every effort will, however, be made to comply with the call, and my object in now addressing Government is to solicit, in pursuance of the Accountant-General's instructions, that early sanction may be accorded to the entertainment of the following extra establishment for a period of six months :—

			Rs.
2	Accountants at	80	160
1	Do.		60
1	Do.		50
2	Do.	at 40	80
		Total per mensem...	350

4. At the head of this large establishment, with its ordinary onerous duties, and with sixty-nine Public Works and upwards of ninety Civil Officers in account with me, it is absolutely impracticable for me to devote that continued close personal supervision which is necessary to secure the greatest possible accuracy in the compilation of the returns called for, and as there are only two men on my establishment drawing more than Rupees 150 (one at the head of the Audit and the other at the head of the Book Branch), neither of whom can be detached to other duty, even temporarily, I am really unable to provide the "experienced" Accountant, possessing the high qualifications mentioned in paragraph 16 of the Accountant-General's letter. Upon this point I beg specially and prominently to bring to the notice of Government that, so long ago as the 6th August 1868,

No. 571-A.

the Government of India, considering it essential to appoint a *separate* officer for the Irrigation Branch of the larger "Provinces," without, by that measure, neglecting the inspection of Range Officers' Accounts, requested this Government to apply for such additional aid as might be necessary. At that time, however, the new forms of Capital and Revenue Accounts had not been received, and the Madras Government accordingly intimated to the Government of India that there was no "*present*" necessity for an extra officer for the immediate charge of the Irrigation Branch of the Controller's Office, but that as soon as the new system of Irrigation Accounts was brought into operation, the appointment of an extra officer would be "absolutely necessary." On the receipt of the forms above mentioned, I applied at once to Government that effect

might be given to the proposed arrangement; but a reference to the concluding paragraph of the Order of the 30th April last, No. 1,102, will show that, until the Registers of Irrigation Works had been completed by the local officers, and the grouping of the works in the districts had been carried out, the Government considered that this department would not have a data upon which to work, and determined that, under these circumstances, the services of an additional officer in the Account Branch were not then required. The present demand, however, completely alters the state of the case; and as the preparation of the statements called for will require the undivided attention of an officer whose duty it will be to direct, under my general instructions, the labours of the extra establishment for which sanction has been solicited, and, by personal communication with the Chief Engineer for Irrigation, to clear up all doubtful points, I have, in my application, made provision for an Assistant Controller, and respectfully beg that, with a view of economizing expenditure and ensuring expedition in the compilation of the returns under notice, an officer may be appointed to the post as early as possible.

(Signed) S. BROCK,
Controller of Public Works Accounts.

No. 266. ORDER THEREON, 15th January 1873, No. 134.

ESTABLISHMENT, No. 29.

THE Controller of Public Works Accounts, in submitting for orders the above letter from the Accountant-General, Public Works Department, applies for the sanction of the establishment required to prepare the statements of Irrigation Works required by the Government of India, and at the same time renews his application for the appointment of an Assistant Controller to take charge of this branch of the Public Works Accounts.

2. There can be no doubt as to the large extent of extra work which the preparation of the Irrigation Accounts and Statements will entail, and as their value will depend entirely upon their accuracy and completeness, the Government resolve to authorize the entertainment of the temporary establishment proposed by the Controller and the appointment of an Assistant Controller, in anticipation of the sanction of the Government of India.

3. Ordered that the following letter be sent:—

(Here enter No. 135, dated 15th January 1873.)

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Controller of Public Works Accounts.
,, Chief Engineer for Irrigation.

Exd. E. C. Shunker.

Application for an increase to the Establishment of the Controller of Public Works Accounts in the Irrigation Branch.

Extract from Home Department of the Government of India. No.	Date.	Office to which the Proposition refers.	Nature of Charge. Present Scale.	Nature of Charge. Proposed Scale.	Proposition. Permanent. Increase per Month.	Proposition. Permanent. Decrease per Month.	Proposition. Temporary. Increase per Month. Period	Proposition. Temporary. Increase per Month. Rs.	Proposition. Temporary. Decrease per Month. Period	Casual or Extraordinary. Grounds of Proposition.	Local Government's recommendation.	Orders of the Government of India. Remarks. Home Department.	Orders of the Government of India. Remarks. Financial Department.	Orders of the Government of India. Orders.
		Controller of Public Works Accounts.		Rs. 1 Assistant Controller ... 450 2 Accountants, at 80 Rs... 160 1 Accountant ... 60 1 Do. ... 50 2 Accountants, at 40 Rs... 80 Rs. 800	Rs. 450 .... 6 months ..... Do. ..... Do. ..... Do. Rs. 450		Rs. ... 100 60 50 80 Rs. 350			*Vide* Endorsement No 2,130, dated 11th December 1872, on letter No. 226-I., dated 3rd December 1872, from the Accountant-General, Public Works Department, to the Controller of Public Works Accounts.				

(Signed) S. BROCK,
Controller of Public Works Accounts.

FORT ST. GEORGE,
11th December 1872.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 15*th January* 1873.

No. 267.

No. 135.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

ESTABLISHMENT, No. 30.

SIR,—I am directed to transmit, for the sanction of the Governor-General in Council, an application, in the prescribed form, for the establishment deemed necessary to enable the Controller of Public Works Accounts in this Presidency to carry out the orders of the Government of India relative to the accounts of Irrigation Works.

2. I am to mention that this Government have been desirous of postponing as long as possible the appointment of an additional officer to the Controller's office, but it is apparent that any further delay would be likely to retard the preparation of the desired returns, while the collection of complete and accurate information is of so much importance, if these accounts are to be of any real value, that it will be better to strengthen the Controller's hands at once, by placing at his disposal an Assistant for this special purpose.

3. It will be observed that the present application for office establishment is for a period of six months only. By the end of that time the Controller will be better able to judge what the real requirements of the Irrigation Accounts Branch may be, and a further application can then be made.

4. I am to add that, as the necessity for the additional establishments referred to in this letter has been generally recognized by the Government of India, the Right Honourable the Governor in Council has authorized their entertainment in anticipation of formal sanction.

I have the honour to be,
Sir,
Your most obedient servant,

Colonel, R.E.,
Secretary to Government.

Exd. E. C. Shunker.

MADRAS.

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS

FROM

1862-63 TO 1870-71.

Madras—Agricultural Works.

MADRAS AGRICULTURAL WORKS.

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71.

Works.	1862-63.	1863-64	1864-65	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
WORKS IN THE GODAVERY DELTA—									
GODAVERY ANICUT AND RIVER IMPROVEMENTS—									
Ordinary ...	70,083	86,240	68,401	11,516	50,006	56,552	...	...	3,68
Extraordinary ...	...	...	...	...	...	15,468	6,531	...	...
WORKS IN EASTERN DELTA—									
Ordinary ...	12,625	1,719	...	...	4,540	12,922	7,769	5,776	3,89
Extraordinary ...	...	...	...	...	...	27,263	61,243	26,159	39,89
WORKS IN CENTRAL DELTA—									
Ordinary ...	42,927	58,316	36,113	678	913	...	...	...	...
Extraordinary ...	...	...	...	...	...	15,185	5,397	4,192	—13
WORKS IN WESTERN DELTA—									
Ordinary ...	46,619	1,27,687	19,130	4,525	32,168	31,736	3,600	..	88
Extraordinary ...	...	...	..	...	...	19,510	1,07,408	82,186	41,78
TOTAL Ordinary ...	1,72,254	2,73,962	1,23,644	16,719	87,627	1,01,210	11,369	5,776	8,46
TOTAL Extraordinary ...	...	...	...	...	...	77,426	1,80,579	1,12,537	81,67
TOTAL ...	1,72,254	2,73,962	1,23,644	16,719	87,627	1,78,636	1,91,948	1,18,313	90,13
MINOR WORKS—									
Ordinary ...	...	...	1,612	1,993	1,200	3,160	6,433	1,170	1,51
TOTAL ORIGINAL WORKS—									
Ordinary ...	1,72,254	2,73,962	1,25,256	18,712	88,827	1,01,370	17,802	6,946	9,97
Extraordinary ...	...	...	...	...	...	77,426	1,80,579	1,12,537	81,6 71
TOTAL ...	1,72,254	2,73,962	1,25,256	18,712	88,827	1,81,796	1,98,381	1,19,483	91,645
REPAIRS—									
Ordinary ...	1,18,953	1,22,117	92,408	89,654	47,833	48,905	48,810	49,160	22,758
TOTAL GODAVERY DELTA—									
Ordinary ...	2,91,207	3,96,079	2,17,664	1,08,366	1,36,660	1,53,275	66,612	55,106	32,73
Extraordinary ...	...	...	...	...	...	77,426	1,80,579	1,12,537	81,67
TOTAL ...	2,91,207	3,96,079	2,17,664	1,08,366	1,36,660	2,30,701	2,47,191	1,68,643	1,14,40
WORKS IN THE KRISTNA DELTA—									
WORKS IN EASTERN DELTA—									
Ordinary ...	1,03,527	54,157	37,095	27,222	20,271	16,332	...	...	...
Extraordinary ...	...	...	...	...	...	82,909	1,14,241	73,736	80,99
WORKS IN WESTERN DELTA—									
Ordinary ...	1,60,294	1,21,179	12,830	59,877	75,845	1,712	758	...	2,97
Extraordinary ...	...	...	...	...	...	1,26,893	91,456	62,584	11,85
TOTAL Ordinary ...	2,63,821	1,75,336	1,49,925	87,099	96,116	18,044	758	...	2,97
TOTAL Extraordinary ...	...	...	...	...	...	2,09,802	2,08,697	1,36,320	92,85
TOTAL ...	2,63,821	1,75,336	1,49,925	87,099	96,116	2,27,846	2,09,455	1,36,320	95,83
MINOR WORKS ORDINARY—									
Ordinary ...	...	4,528	2,003	5,251	3,616	3,523	2,406	3,302	4,64
TOTAL ORIGINAL WORKS—									
Ordinary ...	2,63,821	1,79,864	1,51,928	92,340	99,732	21,567	3,164	3,302	7,624
Extraordinary ...	...	...	...	...	...	2,09,802	2,08,697	1,36,320	92,855
TOTAL ...	2,63,821	1,79,864	1,51,928	92,340	99,732	2,31,369	2,11,861	1,39,622	1,00,479
REPAIRS—									
Ordinary ...	57,371	71,278	82,363	48,606	36,509	21,018	25,943	38,969	25,498
TOTAL KISTNA DELTA—									
Ordinary ...	3,21,192	2,51,142	2,34,291	1,40,946	1,36,241	42,585	29,107	42 271	33,122
Extraordinary ...	...	...	...	...	...	2,09,802	2,08,697	1,36,320	92,855
TOTAL ...	3,21,192	2,51,142	2,34,291	1,40,946	1,36,241	2,52,387	2,37,804	1,78,591	1,25,977

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Works.	1862 63.	1863-64.	1864 65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
WORKS IN THE PENNAIR DELTA—									
PROJECT FOR THE EXTENSION OF IRRIGATION FROM THE PENNAIR ANICUT—									
Ordinary ...	61,747	48,317	30,610	10,805	19,138	16,731	12,751	2,200	1,503
Extraordinary ...	...	...	...	...	...	62,363	71,848	60,065	67,505
TOTAL Ordinary ...	61,747	48,317	30,610	10,805	19,138	16,731	12,751	2,200	1,503
TOTAL Extraordinary ...	...	...	...	...	...	62,363	71,848	60,065	67,505
TOTAL ...	61,747	48,317	30,610	10,805	19,138	79,094	84,599	62,265	69,008
MINOR WORKS—									
Ordinary ...	...	...	...	...	309	1,574	1,246	1,288	2,050
TOTAL ORIGINAL WORKS—									
Ordinary ...	61,747	48,317	30,610	10,805	19,447	18,305	13,997	3,488	3 553
Extraordinary ...	...	...	...	...	...	62,363	71,848	60,065	67,505
TOTAL ...	61,747	48,317	30.610	10,805	19,447	80,668	85,845	63,553	71,058
REPAIRS—									
Ordinary ...	3,257	7,029	979	4,089	5,599	7,069	2,796	1,635	14,837
TOTAL PENNAIR DELTA—									
Ordinary ...	65,004	55,346	31,589	14,894	25,046	25,374	16,793	5,123	18,390
Extraordinary ...	...	...	...	...	...	62,363	71,848	60,065	67,505
TOTAL ...	65,004	55,346	31,589	14,894	25,046	87,737	88,641	65,188	85,895
MADRAS WATER-SUPPLY PROJECT—									
WATER-SUPPLY PROJECT—									
Ordinary ...	...	...	...	...	60,411	...	...	...	60.701
Extraordinary ...	...	...	...	...	...	2,85,153	2,57,513	2,40,796	62,154
TOTAL Ordinary ...	...	...	...	...	60,411	...	...	...	60,701
TOTAL Extraordinary ...	...	...	...	...	...	2,85,153	2,57,513	2,40,796	62,154
TOTAL ...	...	...	...	...	60,411	2,85,153	2,57,513	2,40,796	1,22,855
MINOR WORKS—									
Ordinary ...	..	...	...	...	...	...	...	...	...
TOTAL ORIGINAL WORKS—									
Ordinary ...	...	...	...	...	60,411	...	...	...	60,701
Extraordinary ...	...	...	...	...	...	2,85,153	2,57,513	2,40,796	62,154
TOTAL ...	...	...	...	...	60,411	2,85,153	2,57,513	2,40,796	1,22,855
REPAIRS—									
Ordinary ...	...	...	...	...	...	...	...	...	7,954
TOTAL MADRAS WATER-SUPPLY PROJECT—									
Ordinary ...	...	...	...	...	60,411	...	...	...	68,655
Extraordinary ...	...	...	...	...	...	2,85,153	2,57,513	2,40,796	62,154
TOTAL ...	...	...	...	...	60,411	2,85,153	2,57,513	2,40,796	1,30,809

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
CHEYAR ANICUT PROJECT IMPROVEMENTS TO THE KOOVATOOR—									
NAIKENARY AND NULLALUM TANK IN THE NORTH ARCOT DISTRICT—									
Ordinary ...	...	...	9,589	5,997	19,775	17,911	37,561	15,501	16,392
Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL Ordinary ...	...	...	9,589	5,997	19,775	17,911	37,561	15,501	16,392
TOTAL Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	...	...	9,589	5,997	19,775	17,911	37,561	15,501	16,392
MINOR WORKS— Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ORIGINAL WORKS— Ordinary ...	...	...	9,589	5,997	19,775	17,911	37,561	15,501	16,392
TOTAL ORIGINAL WORKS— Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	...	...	9,589	5,997	19,775	17,911	37,561	15,501	16,392
REPAIRS— Ordinary ...	...	...	...	...	3,379	...	...	935	2,310
TOTAL CHEYAR ANICUT PROJECT— Ordinary ...	...	...	9,589	5,997	23,154	17,911	37,561	16,436	18,702
TOTAL CHEYAR ANICUT PROJECT— Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	...	...	9,589	5,997	23,154	17,911	37,561	16,436	18,702
PALAR ANICUT PROJECT—									
PALAR ANICUT AND SUBSIDIARY WORKS— Ordinary ...	1,36,904	79,030	61,714	23,208	104	25,576	6,344	1,549	100
Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL Ordinary ...	1,36,904	79,030	61,714	23,208	104	25,576	6,344	1,549	100
TOTAL Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	1,36,904	79,030	61,714	23,208	104	25,576	6,344	1,549	100
MINOR WORKS— Ordinary ...	...	...	...	1,450	...	...	...	...	261
TOTAL ORIGINAL WORKS— Ordinary ...	1,36,904	79,030	61,714	24,658	104	25,576	6,344	1,549	361
TOTAL ORIGINAL WORKS— Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	1,36,904	79,030	61,714	24,658	104	25,576	6,344	1,549	361
REPAIRS— Ordinary ...	1,446	500	...	900	900	1,600	...	...	310
TOTAL PALAR ANICUT PROJET— Ordinary ...	1,38,350	79,530	61,714	25,558	1,004	27,176	6,344	1,549	671
TOTAL PALAR ANICUT PROJET— Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	1,38,350	79,530	61,714	25,558	1,004	27,176	6,344	1,549	671

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
POINEY ANICUT PROJECT—									
POINEY ANICUT AND SUBSIDIARY WORKS—									
Ordinary ...	25,246	47,148	16,526	1,022	...	...	...	...	...
Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL Ordinary ...	25,246	47,148	16,526	1,022	...	...	...	...	...
TOTAL Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	25,246	47,148	16,526	1,022	...	...	...	...	...
MINOR WORKS— Ordinary ...	...	...	...	800	...	...	534	315	...
TOTAL ORIGINAL WORKS— Ordinary ...	25,246	47,148	16,526	1,822	...	...	534	315	...
TOTAL ORIGINAL WORKS— Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	25,246	47,148	16,526	1,822	...	...	534	315	...
REPAIRS— Ordinary ...	...	107	1,131	...	...	...	...	1,000	4,118
TOTAL POINEY ANICUT PROJECT— Ordinary ...	25,246	47,255	17,657	1,822	...	...	534	1,315	4,118
TOTAL POINEY ANICUT PROJECT— Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	25,246	47,255	17,657	1,822	...	...	534	1,315	4,118
CHEMBRUMBANKUM TANK PROJECT—									
CHEMBRUMBANKUM TANK PROJECT—									
Ordinary ...	...	...	...	...	...	20,000	...	...	39,585
Extraordinary ...	...	...	...	...	...	...	84,743	93,800	...
TOTAL Ordinary ...	...	...	...	...	...	20,000	...	...	39,585
TOTAL Extraordinary ...	...	...	...	...	...	...	84,743	93,800	...
TOTAL ...	...	...	...	...	...	20,000	84,743	93,800	39,585
MINOR WORKS— Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ORIGINAL WORKS— Ordinary ...	...	...	...	...	...	20,000	...	...	39,585
TOTAL ORIGINAL WORKS— Extraordinary ...	...	...	...	...	...	...	84,743	93,800	...
TOTAL ...	...	...	...	...	...	20,000	84,743	93,800	39,585
REPAIRS— Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL CHEMBRUMBANKUM TANK PROJECT— Ordinary ...	...	...	...	...	...	20,000	...	...	39,585
TOTAL CHEMBRUMBANKUM TANK PROJECT— Extraordinary ...	...	...	...	...	...	...	84,743	93,800	...
TOTAL ...	...	...	...	...	...	20,000	84,743	93,800	39,585

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
WORKS IN THE DELTA OF THE CAUVERY IN TRICHINOPOLY AND TANJORE DISTRICTS—									
Ordinary ...	1,411	1,743	3,730	35,618	64,922	74,291	3,286	...	856
Extraordinary ...	...	...	...	...	...	28,309	82,309	11,251	36,897
TOTAL Ordinary ...	1,411	1,743	3,730	35,618	64,922	74,291	3,286	...	856
TOTAL Extraordinary ...	...	...	...	...	...	28,309	82,309	11,251	36,897
TOTAL ...	1,411	1,743	3,730	35,618	64,922	1,02,600	85,595	11,251	37,753
MINOR WORKS— Ordinary ...	...	...	256	1,023	4,159	4,033	1,756	3,720	3,228
TOTAL ORIGINAL WORKS— Ordinary	1,411	1,743	3,986	36,641	69,081	78,324	5,042	3,720	4,084
Extraordinary ...	...	...	...	...	...	28,309	82.309	11,251	36,897
TOTAL ...	1,411	1,743	3,986	36,641	69,081	1,06,633	87,351	14,971	40,981
REPAIRS— Ordinary ...	3,693	56,761	17,465	10,898	17,962	19,061	30,275	27,021	26,468
TOTAL WORKS IN THE DELTA OF THE CAUVERY IN TRICHINOPOLY AND TANJORE DISTRICTS— Ordinary	5,104	58,504	21,451	47,539	87,043	97,385	35,317	30,741	30,552
Extraordinary ...	...	...	...	...	...	28,309	82,309	11,251	36,897
TOTAL ...	5,104	58,504	21,451	47,539	87,043	1 25,694	1,17,626	41,992	67,449
PERRYAUR ANICUT PROJECT— Ordinary ...	...	...	...	...	...	...	...	8,158	3,599
Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL Ordinary ...	...	...	...	...	...	...	...	8,158	3,599
TOTAL Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	...	...	...	...	...	...	...	8,158	3,599
MINOR WORKS— Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ORIGINAL WORKS— Ordinary ...	...	...	...	...	...	...	...	8,158	3,599
Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	...	...	...	...	...	...	...	8,158	3,599
REPAIRS— Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL PERRYAUR ANICUT PROJECT— Ordinary ...	...	...	...	...	...	...	...	8,158	3,599
Extraordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ...	...	...	...	...	...	...	...	8,158	3,599

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
STREEVICUNTUM ANICUT PROJECT—									
Ordinary ...	...	...	...	...	...	...	...	...	...
Extraordinary ...	...	...	...	...	...	...	1,04,469	3,17,276	97,511
TOTAL Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL Extraordinary ...	...	...	...	...	...	...	1,04,469	3,17,276	97,511
TOTAL ...	...	...	...	...	...	...	1,04,469	3,17,276	97,511
MINOR WORKS— Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL ORIGINAL WORKS— Ordinary ...	...	...	...	...	...	...	...	...	...
Extraordinary ...	...	...	...	...	...	...	1,04,469	3,17,276	97,511
TOTAL ...	...	...	...	...	...	...	1,04,469	3,17,276	97,511
REPAIRS— Ordinary ...	...	...	...	...	...	...	...	...	...
TOTAL STREEVICUNTUM ANICUT PROJECT— Ordinary ...	...	...	...	...	...	...	...	...	...
Extraordinary ...	...	...	...	...	...	...	1,04,469	3,17,276	97,511
TOTAL ...	...	...	...	...	...	...	1,04,469	3,17,276	97,511
OTHER WORKS, GANJAM DISTRICT—									
ORDINARY— Major Works ...	6,294	1,235	...	6,574	831	...	...	...	...
Minor „ ...	1,378	534	3,426	1,809	1,906	4,230	3,136	1,229	1,915
TOTAL ORIGINAL WORKS ...	7,672	1,769	3,426	8,383	2,737	4,230	3,136	1,229	1,915
Repairs ...	26,659	14,820	19,835	12,683	14,619	16,964	21,395	13,879	19,478
TOTAL GANJAM DISTRICT ...	34,331	16,589	23,261	21,066	17,356	21,194	24,531	15,108	21,393
VIZAGAPATAM DISTRICT—									
ORDINARY— Major Works ...	10,495	2,343	4,968	...	...	2,320	1,073	...	...
Minor „ ...	693	4,958	1,482	1,502	753	1,628	3,906	646	1,023
TOTAL ORIGINAL WORKS ...	11,188	7,301	6,450	1,502	753	3,948	4,979	646	1,023
Repairs ...	8,206	10,525	10,633	5,643	6,068	13,342	19,552	14,981	11,067
TOTAL VIZAGAPATAM DISTRICT	19,394	17,826	17,083	7,145	6,821	17,290	24,531	15,627	12,090
GODAVERY DISTRICT—									
ORDINARY— Major Works ...	...	...	...	...	...	...	...	...	...
Minor „ ...	3,174	3,989	3,395	3,096	5,862	13,826	1,576	3,408	5,627
TOTAL ORIGINAL WORKS ...	3,174	3,989	3,395	3,096	5,862	13,826	1,576	3,408	5,627
Repairs ...	54,759	42,617	57,685	69,771	69,824	85,407	61,950	90,173	1,31,483
TOTAL GODAVERY DISTRICT ...	57,933	46,606	61,080	72,867	75,686	99,233	63,526	93,581	1,37,110

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
KISTNA DISTRICT—									
ORDINARY—									
Major Works ...	...	...	1,575	3,177	415	4	...	...	...
Minor „ ...	3,358	1,536	6,500	1,719	2,166	7,582	4,901	3,799	2,755
TOTAL ORIGINAL WORKS ...	3,358	1,536	8,075	4,896	2,581	7,586	4,901	3,799	2,755
Repairs ...	47,241	36,493	80,188	61,962	54,354	39,860	39,148	38,825	41,678
TOTAL KISTNA DISTRICT ...	50,599	38,029	88,263	66,858	56,935	47,446	44,049	42,624	44,433
NELLORE DISTRICT—									
ORDINARY—									
Major Works ...	...	...	...	...	...	...	...	...	...
Minor „ ...	4,289	2,065	4,233	7,107	5,396	8,113	5,224	2,327	3,571
TOTAL ORIGINAL WORKS ...	4,289	2,065	4,233	7,107	5,396	8,113	5,224	2,327	3,571
Repairs ...	16,434	16,352	25,282	21,158	21,809	35,814	49,547	22,450	35,249
TOTAL NELLORE DISTRICT...	20,723	18,417	29,515	28,265	27,205	43,927	54,771	24,777	38,820
CUDDAPAH DISTRICT—									
ORDINARY—									
Major Works ...	7,825	194	...	...	...	20,680	5,450	3,332	3,617
Minor „ ...	4,456	17,328	2,063	2,553	452	1,244	2,921	1,625	1,893
TOTAL ORIGINAL WORKS ...	12,281	17,522	2,063	2,553	452	21,924	8,371	4,957	5,510
Repairs ...	29,850	32,098	29,975	28,876	30,234	32,939	41,888	24,043	51,529
TOTAL CUDDAPAH DISTRICT ...	42,131	49,620	32,038	31,429	30,686	54,863	50,259	29,000	57,039
KURNOOL DISTRICT—									
ORDINARY—									
Major Works ...	...	...	...	...	...	...	...	...	...
Minor „ ...	...	...	161	2,734	1,211	289	579	329	1,587
TOTAL ORIGINAL WORKS ...	...	...	161	2,734	1,211	289	579	329	1,587
Repairs ...	12,035	9,345	38,551	14,928	17,475	16,942	11,145	15,394	20,615
TOTAL KURNOOL DISTRICT...	12,035	9,345	38,712	17,662	18,686	17,231	11,724	15,723	22,202
BELLARY DISTRICT—									
ORDINARY—									
Major Works ...	19,118	10,348	373	...	...	30,671	29,902	14,044	6,718
Minor „ ...	2,139	176	1,144	495	1,320	1,078	2,793	3,046	1,643
TOTAL ORIGINAL WORKS ...	21,257	10,524	1,517	495	1,320	31,749	32,695	17,090	8,361
Repairs ...	39,820	31,759	15,124	63,834	46,464	54,135	50,728	39,707	47,274
TOTAL BELLARY DISTRICT ...	61,077	42,283	16,641	64,329	47,784	85,884	83,423	56,797	55,635
PRESIDENCY DISTRICT—									
ORDINARY—									
Major Works ...	...	...	...	...	...	...	...	...	...
Minor „ ...	...	...	350	441	...	...	...	...	...
TOTAL ORIGINAL WORKS ...	...	...	350	441	...	...	...	...	...
Repairs ...	...	10	7,659	2,667	595	1,650	443	428	392
TOTAL PRESIDENCY DISTRICT	...	10	8,009	3,108	595	1,650	443	428	392
CHINGLEPUT OR MADRAS DISTRICT—									
ORDINARY—									
Major Works ...	...	...	4,993	1,483	...	40,062	51,749	10,847	13,134
Minor „ ...	...	...	34,642	18,119	2,823	11,376	6,768	2,925	7,836
TOTAL ORIGINAL WORKS ...	...	...	39,635	19,602	2,823	51,438	58,517	13,772	20,970
Repairs ...	32,536	45,127	99,347	77,079	90,661	91,943	1,05,362	97,304	1,04,278
TOTAL CHINGLEPUT OR MADRAS DISTRICT ...	32,536	45,127	1,38,982	96,681	93,484	1,43,381	1,63,879	1,11,076	1,25,248

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868 69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
NORTH ARCOT DISTRICT—									
ORDINARY—									
Major Works ...	...	...	3,083	317	...	45,733	1,004	5,216	2,718
Minor „ ...	3,769	2,266	...	1,579	6,639	10,576	10,321	5,267	7,473
TOTAL ORIGINAL WORKS ...	3,769	2,266	3,083	1,896	6,639	56,309	11,325	10,483	10,191
Repairs ...	60,165	34,216	71,693	67,894	57,823	69,214	62,220	61,881	90,448
TOTAL NORTH ARCOT DISTRICT ...	63,934	36,482	74,776	69,790	64,462	1,25,523	73,545	72,364	1,00,639
SOUTH ARCOT DISTRICT—									
ORDINARY—									
Major Works ...	11,441	2,856	27,596	3,172	5,100	66,854	37,861	37,378	33,255
EXTRAORDINARY—									
Major Works ...	...	...	...	...	...	...	...	...	37,741
ORDINARY—									
Minor Works ...	5,542	...	4,584	10,456	8,103	80,821	10,821	7,726	13,421
TOTAL ORIGINAL WORKS ...	16,983	2,856	32,180	13,628	13 203	77,358	48,682	45,104	84,417
Repairs ...	56,430	40,054	1,04,173	62,042	58,645	80,236	77,471	76,999	93,490
TOTAL SOUTH ARCOT DISTRICT ...	73,413	42,910	1,36,353	75,670	71,848	1,57,594	1,26,153	1,22,103	1,77,907
SALEM DISTRICT—									
ORDINARY—									
Major Works ...	1,855	...	...	...	...	9.299	15,628	3,386	7,862
Minor „ ...	819	3,508	2,661	1,088	2,366	4,370	3,620	1,434	3,517
TOTAL ORIGINAL WORKS ...	2,674	3,508	2,661	1,088	2,366	13.669	19.248	4,820	11,379
Repairs ...	38,823	20,248	24,049	19,863	19,170	32,114	31,765	25,805	18,397
TOTAL SALEM DISTRICT...	41,497	23,756	26,710	20,951	21,536	45,783	51,013	30,625	29,776
TANJORE—									
Major Works ...	864	16,684	29,000	15,422	8.222	8,319	6.982	2,411	9,203
Minor „ ...	1,629	411	2,267	5,519	3,754	5,573	6,379	3,121	11,700
TOTAL ORIGINAL WORKS ...	2.493	17,095	31,267	20.941	11.976	13.892	13 361	5,532	20,903
Repairs ...	1,15,184	93,125	1,16,777	91,794	88,296	98,616	1,06,828	1,13,489	1,49,054
TOTAL TANJORE DISTRICT...	1,17,677	1,10,220	1,48,044	1,12,735	1,00,272	1,12,508	1.20,189	1,19,021	1,69,957
TRICHINOPOLY DISTRICT—									
ORDINARY—									
Major Works ...	19,038	8,615	4.992	...	..	13,950	15.394	7,804	7,353
Minor „ ...	1,627	...	921	2,121	1,529	619	2,972	2,863	3,233
TOTAL ORIGINAL WORKS ...	20.665	8.615	5.913	2,121	1.529	14.569	18.366	10 667	10,586
Repairs ...	60,881	28,444	76,080	48,201	69,714	67,647	69,155	46,530	58,868
TOTAL TRICHINOPOLY DISTRICT ...	81,546	37,059	81,993	50,322	71,243	82,216	87,521	57,197	69,454

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FORM 1862-63 TO 1870-71—*continued.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
COIMBATORE DISTRICT—									
ORDINARY—									
Major Works ...	11,832	24,170	7,921	11,605	13,304	42,179	31,547	51,281	8,411
Minor „ ...	508	27,678	1,616	4,225	3,991	2,743	1,292	1,753	4,894
TOTAL ORIGINAL WORKS...	12,340	51,848	9,537	15,830	17,295	44,922	32,839	53,034	13,305
Repairs ...	31.155	40,433	44,247	34,515	24,550	35,870	43,079	45,271	53,111
TOTAL COIMBATORE DISTRICT ...	43,495	92.281	53,784	50,345	41 845	80,792	75,918	98,305	66,416
MALABAR DISTRICT—									
Major Works ..	...	...	...	...	...	...	...	...	...
Minor „ ...	...	1,446	...	...	...	...	...	1,505	3,139
TOTAL ORIGINAL WORKS...	...	1,446	...	...	...	...	...	1,505	3,139
Repairs ...	1,188	3,605	1,707	814	821	400	1,140	1,241	1,075
TOTAL MALABAR DISTRICT...	1.188	5,051	1,707	814	821	400	1,140	2,746	4,214
MADURA DISTRICT—									
Major Works ...	...	...	...	...	...	...	...	...	...
Minor „ ...	...	...	1,500	2,187	1,855	5,907	3.722	3,128	3,673
TOTAL ORIGINAL WORKS ...	...	...	1,500	2.187	1,855	5,907	3,722	3.128	3,673
Repairs ...	18,204	23,022	33,590	32,074	36,825	52,495	53,184	49,513	38,744
TOTAL MADURA DISTRICT...	18,204	23,022	35,090	34,261	38,680	58,402	56,906	52,641	42,417
TINNEVELLY DISTRICT—									
ORDINARY—									
Major Works ...	...	...	...	...	...	...	...	...	...
Minor „ ...	...	...	1,979	3,680	5,533	6,786	3,640	3,532	8,869
TOTAL ORIGINAL WORKS	...	...	1,979	3,680	5,533	6,786	3,640	3,532	8,869
Repairs ...	42,906	49 529	52,305	47,757	55,235	62,959	55,644	1,19,120	72,108
TOTAL TINNEVELLY DISTRICT	42,906	49,529	54,284	51,437	60,768	69,745	59,284	1,22,652	80,977
EXPENDITURE BY CIVIL OFFICERS—									
ORDINARY—									
Major Works ...	...	...	85	1.502	2,700	1,636	1,147	2,209	122
Repairs ...	...	...	2,163	255	...	16,055	8,733	64,919	5,143
TOTAL EXPENDITURE BY CIVIL OFFICERS ...	...	...	2,248	1,757	2,700	17,691	9,880	67,128	5,265
OUTLAY ON FAMINE RELIEF WORKS—									
ORDINARY—									
Original Works ...	...	...	...	...	17,178	7,775	3,115	...	...
Repairs ...	...	...	...	...	...	90,814	1,42,010	...	...
TOTAL OUTLAY ON FAMINE RELIEF WORKS ...	...	...	...	...	17,178	98,589	1,45,125	...	...

GENERAL ABSTRACT OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*concluded.*

Works.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
DEDUCT EXPENDITURE FROM PRIVATE CONTRIBUTIONS—									
Minor Works ...	...	...	...	3,221	4,778	...	...	1,112	2,349
ORDINARY—									
Repairs ...	...	...	...	...	...	1,837	1,944	8,153	2,908
TOTAL AMOUNT OF DEDUCTIONS ...	...	...	...	3,221	4,778	1,837	1,944	9,265	5.257
NET EXPENDITURE—									
Extraordinary ...	...	...	...	...	...	6,63,053	9,90,158	9,72,045	4,76,334
MAJOR WORKS—									
Ordinary ...	7,50,145	6,91,981	4,80,239	2,22,218	3,75,965	5,53,834	2,68,659	1,68,883	2.26,447
MINOR WORKS—									
Ordinary ...	33,381	70,423	76,880	79,218	62,865	1,10,370	88,093	60,555	97,239
REPAIRS WORKS—									
Ordinary ...	8,77,196	8,29,614	11,05,409	9,17,957	8,75,364	10,00,053	10,16,257	10,72,519	11,44,826
FAMINE RELIEF WORKS—									
Ordinary ...	...	...	...	...	17,178	98,589	1,45,125	...	...
TOTAL ORDINARY ...	16,60,722	15,92,018	16,62,528	12,19,393	13,31,372	17,62,885	15,18.134	13,01,957	14,68,512
GRAND TOTAL Extraordinary ...	...	...	...	...	...	6,63,053	9,90,158	9,72,045	4,76,334
GRAND TOTAL Ordinary ...	16,60,722	15,92,018	16,62,528	12,19,393	13,31,372	17,62,885	15,18,134	13,01,957	14,68,512
GRAND TOTAL ...	16,60,722	15,92,018	16,62,528	12,19,393	13,31,372	24,25,938	25,08,292	22,74,002	19,44,846

In addition to the above the following expenditure has been incurred in State outlay in Guaranteed Irrigation Works, Madras—

	Rs.
1862-63	51,200
1863-64	59,650
1864-65	45,244
1865-66	33,431
1866-67	29,837
1867-68	31,301
1868-69	41,659
1869-70	40,064
1870-71	32,488

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71.

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total.. Works completed.	Total.. Works in progress.	Estimated Cost. Final Estimate.	Estimated Cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
GODAVERY ANICUT AND RIVER IMPROVEMENTS IN CONNECTION WITH THE DELTA SYSTEM.	1	Raising the Godavery Anicut 2 feet throughout its entire length, so as to increase the depth of water in the Canals—															
		Extraordinary	...	...	...	...	...	...	15,468	6,531	...	...	21,999	...	3,00,000	3,00,000	1
		Ordinary	...	70,083	86,240	68,401	11,516	50,006	...	...	...	...	2,86,246				
	2	Removing Parapet walls of the under Sluices of the Godavery Anicut—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	1,935	1,935	2
		Ordinary	...	...	...	...	...	...	1,934	...	...	...	1,934				
	3	Compensation for land taken up for Irrigation Works and for the protection of the Godavery Anicut—															
		Ordinary	...	...	...	...	...	...	46,698	...	...	3,680	50,378	...	50,531	46,698	3
	4	Shutters for head and under Sluices of Godavery Anicut—															
		Ordinary	...	...	...	...	...	...	7,920	...	...	...	7,920	...	7,920	7,920	4
		Extraordinary ...	...	...	...	...	...	...	15,468	6,531	...	...	21,999	...	...	...	
		Ordinary ...	...	70,083	86,240	68,401	11,516	50,006	56,552	...	...	3,680	3,46,478	...	...	...	
		Total ...	...	70,083	86,240	68,401	11,516	50,006	72,020	6,531	...	3,680	3,68,477	...	...	...	
WORKS ON THE EASTERN DELTA OF THE GODAVERY.	5	Widening and Improving the Samulcottah Canal—															
		Extraordinary	...	...	...	...	...	...	25,715	59,093	26,146	20,730	...	1,31,684	1,38,560	1,31,200	5
	6	Canal from Samulcottah to Cocanada—															
		Ordinary	1,45,060	3,859	1,719	...	...	...	...	...	...	...	1,50,638	...	1,51,077	1,51,077	6
	7	Calingula on Mundappetta Canal at Thopasuram—															
		Extraordinary	...	...	...	...	...	...	...	759	13	...	772	...	2,843	2,843	7
		Ordinary	...	...	...	..	...	...	1,780	...	...	...	1,780				
	8	Scouring Sluices and Ring Channel to Cocanada Lock—															
		Extraordinary	...	...	...	...	...	...	...	1,269	...	...	1,269	...	1,600	1,000	8
		Ordinary	...	...	...	...	...	...	593	...	...	...	593				
	9	Aqueduct over Chintapully Calingula Channel—															
		Extraordinary	...	...	...	...	...	...	1,548	...	...	...	1,548	...	3,570	3,570	9
		Ordinary	...	...	...	...	...	2,200	...	...	...	...	2,200				
	10	Calingula near Chintapully—															
		Ordinary	1,473	1,250	...	...	...	...	...	...	...	...	2,723	...	2,740	2,740	10
	11	South side Channel from Thapasuram on Mundapetta Canal—															
		Ordinary	...	...	...	...	...	...	3,543	532	266	102	...	4,443	4,850	4,850	11
	12	Constructing an Iron Girder Bridge across the Coringa Canal—															
		Ordinary	...	...	...	...	...	...	...	...	1,460	2,077	3,537	Local ...	6,730	6,730	12
		Local	...	...	...	...	...	...	...	..	...	...	3,365				
		Carried over ... Extraordinary ...	...	...	...	...	...	...	27,263	61,121	26,159	20,730	3,589	1,31,684	1,38,560	...	
		Ordinary ...	1,46,533	5,109	1,719	...	...	2,200	5,916	532	1,726	2,179	1,61,471	4,443	1,73,410	...	
		Local ...	...	...	...	...	...	...	...	...	...	...	3,365	...	...	...	

* The total outlay shewn in this Statement is less than that exhibited in the Outlay Account for 1868-69 by Rs. 8,067, being the amount of recovery effected in 1863-64, but not deducted from that year's outlay on the works.

Madras—Agricultural Works.

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total: Works completed.	Total: Works in progress.	Estimated cost: Final Estimate.	Estimated cost: Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	27,263	61,121	26,159	20,730	3,589	1,31,684	1,38,560		
		Brought forward ... Ordinary ...	1,46,533	5,109	1,719	...	...	2,200	5,916	532	1,726	2,179	1,61,471	4,413	1,73,410		
		Brought forward ... Local ...	...	...	...	...	...	...	...	...	...	...	3,365	...	...		
WORKS ON THE EASTERN DELTA OF THE GODAVERY—*contd.*	13	Constructing an Iron Girder Bridge across the old Thoolyabaga Channel—															13
		Ordinary ...	...	...	...	...	...	...	...	...	...	1,071	...	1,071	3,490	3,490	
		Local ...	...	...	...	...	...	...	...	...	...	...	Local ...	1,745			
	14	Constructing an Iron Girder Bridge across the Samulcottah Canal—															14
		Ordinary ...	...	...	...	...	...	...	...	...	...	645	...	645	8,850	8,850	
		Local ...	...	...	...	...	...	...	...	...	...	...	Local ...	4,425			
	15	Side Channel from Madapand Lock on south Side—															15
		Ordinary ...	...	...	...	...	...	...	2,431	477	—306	...	...	2,602	4,460	4,460	
	16	Tunnel on the Ingeram Channel—															16
		Ordinary ...	...	2,638	...	...	...	...	...	...	...	...	2,638	...	2,590	2,590	
	17	Excavating a Channel from the head of Samulcottah to Goodapillay Quarry—															17
		Ordinary ...	...	4,878	...	...	...	...	...	...	...	...	4,878	...	4,826	4,826	
	18	Masonry Aqueduct over Thopasuram Drain—															18
		Extraordinary ...	...	...	...	...	...	...	...	122	...	...	122	...	540	540	
		Ordinary ...	...	...	...	...	...	...	410	...	...	...	410				
	19	Widening and deepening the Main or Cocanada Canal and Constructing Locks and Calingulas—															19
		Extraordinary ...	...	...	...	...	...	...	...	...	...	19,165	...	19,165	1,19,680	1,19,680	
		Ordinary ...	...	...	...	...	...	...	...	5,778	4,350	...	...	10,128			
	20	Channel to Irrigate Lands in the Village of Yendamoor—															20
		Ordinary ...	...	...	...	...	...	* 2,340	4,165	982	6	...	7,493	...	8,450	8,450	
		Extraordinary ...	...	...	...	...	...	...	27,263	61,243	26,159	39,895	3,711	1,50,849	1,38,560	...	
		Ordinary ...	1,46,533	12,625	1,719	...	...	4,540	12,922	7,769	5,776	3,895	1,76,890	18,889	3,26,290	...	
		Local ...	...	...	...	...	...	...	...	...	...	Local	3,365	6,170	Local	...	
		Total ...	1,46,533	12,625	1,719	...	...	4,540	40,185	69,012	31,935	43,790	1,80,601 L 3,365	1,69,738 L 6,170			
WORKS ON THE CENTRAL DELTA OF THE GODAVERY.	21	Aqueduct across the Cowsica Drain—															21
		Extraordinary ...	...	...	...	...	...	...	1,761	* —51	—196	...	...	1,514	* 16,500	16,500	
	22	Widening and rebuilding Side wall of the Gunaram Aqueduct—															22
		Extraordinary ...	...	...	...	...	...	...	4,979	4,668	4,388	—13	...	14,022	20,500	20,500	
	23	Constructing a Lock and Calingula below the Gunaram Aqueduc—															23
		Extraordinary ...	...	...	...	...	...	...	8,445	780	...	...	9,225	...	9,350	9,350	
	24	Works of Irrigation & Navigation in the Central Delta—															24
		Ordinary ...	2,38,757	35,373	34,630	10,865	...	...	...	...	...	...	3,19,625	...	3,19,914	3,18,934	
		Carried over ... Extraordinary ...	...	...	...	...	...	...	15,185	5,397	4,192	—13	9,225	15,536	46,350		
		Carried over ... Ordinary ...	2,38,757	35,373	34,630	10,865	...	...	...	...	...	...	3,19,625	...	3,19,914		

* Of this amount Rs. 349 were shown under "Minor Works" in the Outlay Account for 1866-67.

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	15,185	5,397	4,192	—13	9,225	15,536	46,350	...	
		Brought forward ... Ordinary ...	2,38,757	35,373	34,630	10,865	...	...	...	...	...	...	3,19,625	...	3,19,914	...	
WORKS ON THE CENTRAL DELTA OF THE GODAVERY—*contd.*	25	Excavating two Branch Channels in the late Rally and Amalapoor Taluqs—															
		Ordinary	56,980	9	2,145	...	...	...	...	...	...	...	59,134	...	59,135	59,135	25
	26	Irrigation and drainage channels in the Biccavole, Nagaram and Tanookoo Taluqs—															
		Ordinary	17,683	2,111	...	...	...	...	...	...	...	...	19,794	...	21,000	21,000	26
	27	Aqueduct over Comaracalwa drain near Amalapoor—															
		Ordinary	4,256	1,829	...	...	...	...	...	...	...	...	6,085	...	6,980	6,980	27
	28	High level Canal from Perikeed to Dendaloor—															
		Ordinary	2,88,489	3,605	21,541	13,971 11,277	678	913	...	...	...	...	3,40,474	...	3,23,782	2,87,644	28
		Extraordinary ...	...	...	...	...	...	...	15,185	5,397	4,192	—13	9,225	15,536	46,350	...	
		Ordinary ...	6,06,165	42,927	58,316	36,113	678	913	...	...	...	...	7,45,112	...	7,30,811	...	
		Total ...	6,06,165	42,927	58,316	36,113	678	913	15,185	5,397	4,192	—13	7,54,337	15,536	7,77,161	...	
WORKS ON THE WESTERN DELTA OF THE GODAVERY.	29	Improvements to the Akeed Canal—															
		Extraordinary	...	...	...	...	...	...	17,045	52,116	7,735	447	77,343	...	1,03,230	1,03,230	29
		Ordinary	10,175	...	...	11,824	70	...	...	...	...	...	22,069				
	30	Works for the cross drainage of the Ellore High Level Canal—															
		Extraordinary	...	...	...	...	...	...	...	11,289	305	...	...	11,594	1,05,490	1,05,490	30
		Ordinary	29,685	...	...	...	...	24,462	25,165	...	...	...	...	79,312			
	31	Extension of Irrigation from the Ellore Canal—															
		Extraordinary	...	...	...	...	...	...	...	38,681	74,146	4,626	...	1,47,117	...	...	31
		Ordinary	...	...	...	...	...	...	...	...	...	...					
		Irrigation Works of the Ellore High Level Canal—															
		Extraordinary	...	...	...	...	...	...	2,465	5,000	...	22,199					
		Canal from Ellore to Wyaroo—															
		Extraordinary	...	...	...	...	...	...	...	...	...	14,517	...	14,517	70,460	70,460	
	32	Under tunnel under Oondy Channel—															
		Extraordinary	...	...	...	...	...	...	...	322	...	...	322	...	1,100	1,100	32
		Ordinary	...	...	...	...	...	...	596	...	...	...	596				
	33	Sloping down the banks of the Western Delta Main Canal from Vizaishweram to Niddadivole—															
		Ordinary	...	...	...	...	...	...	5,631	...	...	...	5,631	...	5,660	5,660	33
	34	Irrigation Channel on road from the banks of the Vasista Godavery at Kodair to Attelli—															
		Ordinary	...	...	...	...	...	...	...	...	...	888	...	888	56,537	56,537	34
		Local	...	...	...	...	...	...	...	...	...	...	...	Local 45,167			
		Carried over ... Extraordinary ...	...	...	...	...	...	...	19,510	1,07,408	82,186	41,789	77,665	26,111	...	...	
		Carried over ... Ordinary ...	39,860	...	...	11,824	70	24,462	31,392	...	...	888	28,296	2,27,317	...	...	
		Carried over ... Local ...	...	...	...	...	...	...	...	...	...	...	...	45,167	3,42,477	...	

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	19,510	1,07,408	82,186	41,789	77,665	26,111	...		
		Ordinary ...	39,860	...	...	11,824	70	24,462	31,392	...	...	888	28,296	2,27,317	...		
		Local ...	...	...	...	...	...	...	...	...	...	...	...	45,167	3,42,477		
WORKS ON THE WESTERN DELTA OF THE GODAVERY,—*contd.*	35	Improving Gustannuddy Lock—															
		Ordinary ...	...	...	...	...	...	...	326*	3,600	...	...	3,926	...	4,400	4,400	35
	36	Constructing a Calingula to the Byanur River—															
		Ordinary ...	...	...	2,854	4,106	4,455	4,778	...	...	...	...	16,193	...	16,000	16,000	36
	37	Constructing escapes on South banks of the Ellore Canal—															
		Ordinary ...	...	14,880	1,325	...	...	...	...	...	...	...	16,205	...	17,850	17,850	37
	38	Improving Tunnels in Ellore High Level Canal—															
		Ordinary ...	...	11,236	953	...	...	...	...	...	...	...	12,189	...	12,576	11,863	38
	39	Constructing a Lock and Calingula at Chinnacapuram in the Akeed Canal—															
		Ordinary ...	...	...	11,000	...	...	...	...	...	...	...	11,000	...	11,960	11,960	39
	40	Compensation for lands taken up for Channels—															
		Ordinary ...	...	20,000	1,00,000	3,200	...	...	...	...	...	...	14,755	...	14,580	14,580	41
	41	Drainages of Ellore Canal and constructing escape Calingulas near Nursoypollem and Poottypad—															
		Ordinary ...	...	...	11,555	...	...	...	...	...	...	...	607	...	610	610	42
	42	Building a Calingula in Bangalore Guttoo at Lingumpurty—															
		Ordinary ...	469	138	...	...	...	...	...	...	...	...	1,478	...	1,500	1,500	43
	43	Constructing Autookoo Calingula on the banks of the Ellore Canal—															
		Ordinary ...	1,293	185	...	...	...	...	...	...	...	...	1,461	...	1,500	1,500	44
	44	Constructing Daragugoodam Calingula on the banks of the Ellore Canal—															
		Ordinary ...	1,281	180	...	...	...	2,928	18	...	...	...	2,946	...	2,807	2,807	45
	45	Raising the body wall of the Chettepett Calingula—															
		Ordinary ...	...	...	...	...	...	...	19,510	1,07,408	82,186	41,789	77,665	1,73,228	...	...	
		Extraordinary ...	...	...	...	19,130	4,525	32,168	31,736	3,600	...	888	2,29,056	80,200	5,46,260	...	
		Ordinary ...	42,903	46,619	1,27,687	...	...	...	...	...	...	...	...	Local 45,167	...	...	
		Local ...	...	...	...	19,130	4,525	32,168	51,246	1,11,008	82,186	42,677	3,06,721	2,53,428 L45,167	...	...	
		Total ...	42,903	46,619	1,27,687												
WORKS ON THE EASTERN DELTA OF THE KISTNA CANALS.	46	Enlarging and improving Channels in Masulipatam Section of the Delta Pollairu—															
		Extraordinary ...	...	...	...	...	...	...	41,015	34,297	21,547	25,469	...	1,22,328	1,83,100	1,77,000	46
		Ordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	47	Widening head of ditto Canal from the Anicut to the head of Ellore branch—															
		Extraordinary ...	...	...	...	...	...	...	7,741	4,525	1,847	8,330	...	22,443	1,13,530	20,080	47
		Ordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Carried over ... Extraordinary ...	...	...	...	...	...	...	48,756	38,822	23,394	33,799	...	1,44,771	2,96,630		
		Ordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...		
		Local ...	...	...	...	...	...	...	...	...	...	...	...	...	...		

* This sum was treated as minor repairs under "Commns.," and shows as such in the Outlay Account of 1867-68.

Station.	Item No.	Works	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total: Works completed.	Total: Works in progress.	Estimated cost: Final Estimate.	Estimated cost: Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	48,756	38,822	23,394	33,799	...	1,44,771	2,96,630	...	
		Ordinary ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Local ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
WORKS ON THE EASTERN DELTA OF THE KISTNA CANALS,—*contd.*	48	EXCAVATING IRRIGATION CHANNELS ON WEST SIDE OF DITTO FROM THE 13TH MILE TO AUKUMAROO—															48
		Extraordinary	...	...	...	...	...	...	14,503	17,389	6,734	7,173	...	45,799	49,860	49,860	
		Ordinary	...	...	..	...	...	...	...	...	...	...	...	...	...	...	
	49	EXCAVATING IRRIGATION CHANNELS ON EAST SIDE OF DITTO FROM DITTO—															49
		Extraordinary	...	...		...	...	...	12,845	799	108	562	...	14,314	15,610	15,610	
		Ordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	50	WIDENING THE LOWER PORTION OF THE PULLACROO CHANNEL—															50
		Extraordinary	...	...	...	...	...	...	6,805	409	967	641	...	8,822	} 1,04,050	{ ...	
		Ordinary	...	3,975	40,943	26,942	11,131	12,493	..	...	...	...	...	(1) 95,484		98,710	
	51	IRRIGATION CHANNEL FROM THE 14TH MILE OF PALROZACADOO TO WATER THE LANDS OF APPAPOORUM, KYKALOOR AND ATTAPATRA—															51
		Extraordinary	...	...	...	...	...	...	...	610	1,178	...	...	1,788	} 6,130	{ 6,130	
		Ordinary	...	...	...	...	...	...	4,098	...	...	...	...	4,098		...	
	52	EXCAVATING RAMBAJOOPOLLIUM CHANNEL TOWARDS GOKAVARUM CHANNEL—															52
		Extraordinary	...	...	...	...	...	...	...	10,384	3,608	...	13,992	...	14,050	13,350	
	53	ENLARGEMENT AND IMPROVEMENT OF RYNE'S CHANNELS—															53
		Extraordinary	...	...	...	...	...	...	...	44,352	36,525	38,821	...	1,19,698	4,14,193	4,14,193	
		Ordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	54	EXCAVATING TWO NEW CHANNELS IN THE EASTERN DELTA OF KISTNA OR CAPTAIN RYNE'S CHANNELS—															54
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Ordinary	53,329	8,096	1,925	1,466	...	...	...	...	...	...	64,816	...	64,860	64,860	
	55	CONSTRUCTING No. 1 DRAINAGE CHANNEL FROM THE TOWN ON BEACH ROAD TO TIDAL LOCK— CONSTRUCTING No. 2 IN CONTINUATION OF THE CANTONMENT DRAINAGE CHANNEL—															55
		Ordinary	966	...	...	...	...	1,603	65	...	...	...	2,634	...	5,640	5,640	
	56	CONSTRUCTING A STILL WATER NAVIGABLE CHANNEL FROM BUNTOOMALLY CHANNEL TO SALT PLATFORM OF BUNTOOMALLY NEAR POORANDRA—															56
		Ordinary	...	...	...	...	...	...	6,978	...	...	...	6,978	...	7,350	7,350	
	57	COMPENSATION FOR LAND TAKEN UP FOR IRRIGATION WORKS—															57
		Ordinary	...	7,812	...	...	...	...	1,788	...	...	...	9,600	...	9,600	9,600	
	58	CANAL FROM POOLLAIROO NEAR VEYOOR TO THE CANAL BASIN AT MASULIPATAM WITH ITS SUBSIDIARY WORKS—															58
		Ordinary	2,26,200	31,930	9,999	891	...	...	...	...	...	..	2,69,023	...	2,60,246	2,60,246	
	59	EXCAVATING DRAINAGE CHANNEL IN THE TOWN OF MASULIPATAM—															59
		Ordinary	...	...	...	2,292	...	...	...	..	...	...	{ 2,292 Local 773 (2)297 }	...	18,660	18,660	
	60	RECONSTRUCTING A TUNNEL UNDER MASULIPATAM CANAL NEAR SOOLTAHNAGRUM—															60
		Ordinary	...	...	...	5,501	9,925	...	...	...	...	...	15,426	...	15,200	15,200	
		Carried over ... Extraordinary ...	...	...	...	...	...	...	82,909	1,12,765	72,514	80,996	13,992	3,35,192	9,00,523	...	
		Ordinary ...	2,80,495	51,813	52,867	37,095	21,056	14,096	12,929	...	...	...	3,71,066	99,582	3,81,556	...	
		Local ...	...	...	...	...	...	...	...	...	...	...	773	...	...	...	

(1) A recovery of Rs. 4·9 was omitted to be deducted in 1864-65 from the outlay of the year, and Rs. 244 were omitted to be included in the total outlay of subsequent years shewn in the outlay account. This latter sum was shewn as a portion of expenditure on this work prior to the year above quoted.

(2) This sum expended from Imperial Funds in 1866-67 appears under miscellaneous public improvement. The work was transferred to the Municipal Department.

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total Works completed.	Total Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	37,095	21,056	14,096	82,909	1,12,765	72,514	80,996	13,992	3,35,193	9,00,523		
		Brought forward ... Ordinary ...	2,80,495	51,813	52,867	...	...	...	12,929	...	...	...	3,71,066	99,582	3,81,556	...	
		Brought forward ... Local ...	...	...	...	...	...	...	...	...	...	...	773	...	...	...	
WORKS ON THE EASTERN DELTA OF THE KISTNA CANAL,—*contd.*	61	Improving and Strengthening the Embankment of Kistna from Yanamala Coodooroo to Mopudary—															
		Extraordinary	...	...	...	...	...	...	...	1,476	1,222	...	local 773	2,698	56,910	56,910	61
		Ordinary	20,048	...	1,290	...	...	4,499	...	...	...	...	...	25,837 5,000 2,053	Local Income Tax		
	62	Tamilair Aqueduct and Ellore lock and Calingula—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Ordinary	1,27,125	49,418	...	...	...	...	...	...	...	...	1,76,543	...	1,99,671	1,99,671	62
	63	High level Chanel from Perikeed to Dendalow—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Ordinary ... ... —	82,100	2,296	...	...	...	...	...	...	...	...	84,696	...	79,550	79,550	63
	64	Strengthening the head Sluice of the Kistna Anicut at Bezwada and fitting the same with double Shutters—															
		Ordinary	...	...	...	...	6,166	1,676	3,403	...	...	...	11,245	...	11,250	11,250	64
		Extraordinary ...	...	...	...	...	...	..	82,909	1,14,241	73,736	80,996	13,992	3,37,890	9,00,523	...	
		Ordinary ...	5,10,068	1,03,527	54,157	37,095	27,222	20,271	16,332	...	...	...	6,43,550	1,25,419	7,28,937	...	
		Local ...	...	...	...	...	...	...	...	...	...	...	Local 773	Local 7,053	...	...	
		Total ...	5,10,068	1,03,527	54,157	37,095	27,222	20,271	99,241	1,14,241	73,736	80,996	6,57,245 773 297	4,63,309 local 7,053 Mis. Pub. Impts.	... ...	... ... outlay.	
WORKS ON THE WESTERN DELTA OF THE KISTNA CANAL.	65	Side channels from Doogerala to Nizampatam—															
		Extraordinary	...	...	...	...	...	...	19,097	21,597	10,996	1,510	...	53,200	56,740	56,740	65
		Ordinary	...	...	...	...	...	...	...	...	...	...		...	...	...	
	66	Extending the Commamore channels and constructing the necessary Masonry Works—															
		Extraordinary	...	...	...	...	...	...	49,921	30,289	17,023	1,707	...	98,940	1,95,770	1,95,770	66
		Ordinary	...	...	...	33,113	10,017 3,700 114 20 *a* 4,403	24,117	1,373	...	...	...	...	76,857			
	67	Channels from Wallahapoorum to Tide-water—															
		Extraordinary	...	...	...	...	...	...	15,844	9,549	17,679	...	43,072	...	1,46,480	1,46,480	67
		Ordinary	12,478	21,097	18,554	29,897	15,701	13,793	...	..	...	...	*b* 1,11,520				
	68	Constructing first class lock at Doogeralla—															
		Extraordinary	...	...	...	...	...	...	7,357	6,790	1,202	...	15,349	...	33,570	33,570	68
		Ordinary	...	...	...	4,996	410	13,734	...	...	...	...	*c* 19,140				
	69	Constructing second class lock at Jagarlamoody—															
		Extraoodinary	...	...	...	...	...	...	9,570	9,080	2,331	...	20,981	...	18,040	18,040	69
		Ordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Carried over ... Extraordinary ...	...	...	...	...	...	...	1,01,789	77,305	49,231	3,217	79,402	1,52,140	74,780	...	
		Carried over ... Ordinary ...	12,478	21,097	18,554	68,006	34,365	51,644	1,373	...	...	...	1,30,660	76,857	3,75,820	...	
		Carried over ... Local ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

22 *a* Rs. 4,403 were treated as Minor Work outlay in 1865-66 *b* Rs 604 being the amount of recovery in 1864-65, were not deducted from that year's outlay.

c Rs 127, being the amount of recovery in 1864-65, were not deducted from that year's outlay.

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total: On works in progress.	Total: On completed works.	Estimated Cost: Final Estimate.	Estimated Cost: Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	1,01,789	77,305	49,231	3,217	79,402	1,52,140	74,780	...	
		Brought forward ... Ordinary ...	12,478	21,097	18,554	68,006	34,365	51,644	...	...	...	...	...	...	...	...	
		Brought forward ... Local ...	...	...	...	...	...	...	1,373	...	...	...	1,30,660	76,857	3,75,820	...	
WORKS ON THE WESTERN DELTA OF THE KISTNA CANAL, —*contd.*	70	CUTTING A NEW CHANNEL FROM PEDAVADLAPOODY TO NIZAMPATAM, INCLUDING KOOCHYPOODY LOCK WITH OTHER SUBSIDIARY WORKS—															70
		Extraordinary	...	...	...	...	...	...	675	487	937	...	2,099	...	2,94,815	2,40,457	
		Ordinary	1,52,769 38,618 18,329	3,675 901 13,418 5,493	29,994	15,299	13,903	4,006	...	...	...	...	d 2,96,405	...			
	71	EXCAVATING A DRAINAGE CHANNEL TO DISPOSE OF FOUR DRAINAGES WHICH AT PRESENT RUN INTO THE VELLATOOR CHANNEL—															71
		Extraordinary	...	...	...	...	...	...	4,754	3,764	889	818	10,225	...	10,460	10,460	
		Ordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	72	DRAINAGE CHANNEL FROM OUTLETS ACROSS THE RAMPAROO SWAMP—															72
		Extraordinary	...	...	...	...	...	...	5,329	294	...	...	5,623	...	5,400	5,400	
		Ordinary	...	...	...	...	...	...	...	...	..	...	...	...	....	...	
	73	CONSTRUCTION OF AN ACCOMMODATION BRIDGE* CROSS THE COMMAMOOR CHANNEL AT KALAPATOOR—															73
		Extraordinary	...	...	...	...	...	...	...	...	4,825	...	...	4,825	13,650	13,650	
		Local	...	...	...	...	...	...	...	...	...	...	...	2,811			
	74	CLEARING AND IMPROVING MAMNUGHEE DRAINAGE CHANNEL AND CONSTRUCTING AN UNDER-TUNNEL—															74
		Ordinary	...	...	...	3,880	5,755	1,342	339	758	...	...	12,074	...	12,070	12,070	
	75	CHANNEL FROM DOOGERALA TO PADARAVOOR—															75
		Ordinary	...	...	1,232	2,079	1,556	46	...	...	...	...	4,913	...	7,400	7,400	
	"	CHANNEL FROM PADARAVOOR TO NIZAMPATAM—															"
		Ordinary	931	4,673	1,547	...	...	252	...	...	...	...	7,403	...	7,400	7,400	
	76	IMPROVING AURUMUNDLA CALINGULAH AND EXCAVATING AN IRRIGATION CHANNEL FROM AURUMUNDLA CALINGULAH FOR THE IRRIGATION OF LANDS BETWEEN AURUMUNDLA CHANNEL AND TOONGAHUDRA—															76
		Ordinary	...	1,216	8,696	876	...	...	...	...	...	...	10,788	...	10,540	10,508	
	77	EXCAVATING A CHANNEL FROM BOODAMAIE, NEAR MUPPUROO, AND CONSTRUCTING CALINGULAH TO DITTO AND SLUICES TO NAHABALLA RANCKA POOMALAPILLY, AND AURUPOBALLA CODU—															77
		Ordinary	717	6,120	3,811 321	250	...	...	...	...	...	...	11,219	...	11,240	11,240	
	78	EXCAVATING A DRAINAGE FOR CONVEYING SURPLUS AND DRAINAGE WATER FROM LANDS ABOUT TO BE RECLAIMED FROM THE BED OF SUNDOLE TANK—															78
		Ordinary	...	...	2,412	857	...	...	...	...	...	...	3,269	...	3,270	3,270	
	79	SLOPING DOWN THE BANKS OF THE MAIN CHANNEL FOR THE FIRST FOUR MILES FROM THE NORTHERN FLANK OF ANICUT—															79
		Ordinary	112	14,755	483	...	...	...	...	...	...	...	15,350	...	20,240	20,240	
		Carried over ... Extraordinary ...	...	...	...	...	...	...	1,12,547	81,850	55,882	4,035	97,349	1,56,965	90,640	...	
		Carried over ... Ordinary ...	2,23,954	71,348	67,550	91,247	55,579	57,290	1,712	758	...	...	4,92,081	76,857	7,56,445	...	
		Carried over ... Local ...	...	...	...	...	...	...	...	...	...	...	...	2,811	...	...	

* Rs. 3,184, being the amount of recovery in 1864-65, were not deducted from that year's outlay.

Station.	Item No.	Works.	Up to end of 1862-63.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total Works completed.	Total Works in progress.	Estimated Cost. Final Estimate.	Estimated Cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	1,12,547	81,850	55,882	4,035	97,349	1,56,965	90,640	...	
		Brought forward ... Ordinary ...	2,23,954	71,348	67,050	91,247	55,579	57,290	...	...	...	...	...	1,76,857	7,56,445	...	
		Brought forward ... Local ...	...	...	...	...	...	...	1,712	758	...	...	49,208	2,811	...	...	
WORKS ON THE WESTERN DELTA OF THE KISTNA CANALS,—*contd.*	80	EXCAVATING AN IRRIGATION CHANNEL TO BODLOPAND AND CHINNA POOLOOPAKA, LANDS ON THE WEST SIDE OF BUNDER CHANNEL—															
		Ordinary	...	167	2,040	...	...	...	...	...	...	...	2,207	...	2,680	2,680	80
	81	CHANNEL WITH SUBSIDIARY WORKS FOR THE BETTER SUPPLY OF BOODAIR AND ULLOOR LANDS—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Ordinary	...	...	...	...	...	...	...	...	...	2,977	...	2,977	46,420	46,420	81
	82	ENLARGING THE HEAD OF THE MAIN IRRIGATION CHANNEL AT BEZWADAH ON THE RIGHT BANK OF THE KISTNA—															
		Extraordinary	...	...	...	...	...	...	14,346	12,606	6,702	7,824	...	41,478	2,76,400	2,10,944	82
		Ordinary	13,732	38,465	32,223	14,455	4,298	18,555	...	...	...	...	...	*1,21,728			
		IMPROVING DWOGERALLA CALINGULAH—															
		Ordinary	...	5,431	3,369	511	...	...	...	...	...	...	9,311	...	7,870	7,870	
		EMBANKING COMMAMORE CHANNEL—															
		Ordinary	...	5,478	7,445	6,617	...	...	...	...	...	...	19,540	...	19,590	19,590	
		TUNNEL FROM NUCKARAZOO DRAINAGE—															
		Ordinary	...	16,436	3,548	...	...	...	...	...	...	...	19,984	...	19,300	19,300	
		12 IRRIGATION SLUICES—															
		Ordinary	...	...	600	...	...	...	...	...	...	...	600	...	600	600	
		EXTENSION OF COMMAMORE CHANNEL—															
		Ordinary	960	7,314	2,064	...	...	...	...	...	...	...	10,338	...	10,030	10,030	
		CONSTRUCTING A CALINGULAH ACROSS SAKI CALMA—															
		Ordinary	63	1,058	214	...	...	...	...	...	...	...	1,335	...	1,310	1,310	
		CONSTRUCTING A CALINGULAH ACROSS NULLAVADA—															
		Ordinary	1,401	6,825	2,091	...	...	...	...	...	...	...	10,317	...	8,970	8,970	
		CONSTRUCTING HEAD SLUICE TO CHAROOKOOR TANK—															
		Ordinary	12	184	385	...	...	...	...	...	...	...	581	...	580	580	
		BUND ACROSS BRANCH CHANNEL TO NULLAVADA LEADING TO CHEROOKOOR TANK—															
		Ordinary	...	100	...	...	...	...	...	...	...	...	100	...	100	100	
		CONSTRUCTING LOCK AND HEAD SLUICE AT THE HEAD OF WESTERN BANK CHANNEL NEAR RAVANDRAPAND—															
		Ordinary	4,483	5,095	150	...	...	...	...	...	...	...	9,728	...	8,880	8,880	
	83	CONSTRUCTING MASONRY ESCAPE TO COMMAMORE MAIN DUCT NEAR JAGHARLAMCODY—															
		Ordinary	1,155	2,393	...	...	...	...	...	...	...	...	3,548	...	3,640	3,640	83
		EXTRAORDINARY ...	...	...	...	...	...	...	1,26,893	94,456	62,584	11,859	97,349	1,98,443	90,640	...	
		ORDINARY ...	2,45,760	1,60,294	1,21,179	1,12,830	59,877	75,845	1,712	758	...	2,977	5,79,670	2,01,562	11,62,815	...	
		LOCAL ...	...	...	...	...	...	...	...	...	...	...	...	2,811	...	...	
		TOTAL ...	2,45,760	1,60,294	1,21,179	1,12,830	59,877	75,845	1,28,605	95,214	62,584	14,836	6,77,020	4,02,816	...	...	

* Rs. 1,443, recovered prior to 1870-71, were omitted to be deducted from the outlay of the year in which they were recovered.

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs	
PENNAIR DELTA WORKS (NELLORE).	84	Irrigation Canal from Nellore to Kistnapatam—															
		Extraordinary	...	...	...	...	...	...	5,135	252	...	291	...	5,678	59,600	59,600	84
		Ordinary	6,716	26,156	15,087	1,666	1,000	3,000	...	...	...	...	...	*53,625			
	85	Connecting Sarvapally Channel with Jaffer Sahib's Channel—															
		Ordinary	53,637	13,463	11,635	8,689	1,374	102	...	...	...	...	88,900	...	92,630	92,630	85
	86	Improving Embankment along the South Margin of the Pennair Weir at Nellore—															
		Extraordinary	...	...	...	...	...	...	...	...	536	234	770	...	16,400	16,400	86
		Ordinary	...	...	...	4,484	1,338	5,210	4,602	...	...	...	15,634				
	87	Moiety of the cost of Masonry Works on the road from Nellore to Mypands—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	44,400	44,400	87
		Ordinary	...	...	...	...	...	...	...	...	...	510	...	510			
		Local	...	...	...	...	...	...	...	...	...	...	...	4,500			
	88	Moiety of the cost of Masonry Works on the road from Nellore to Koduru through Amalur—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	49,200	49,200	88
		Ordinary	...	...	...	...	...	...	...	...	...	635	...	635			
		Local	...	...	...	...	...	...	...	...	...	...	...	3,000			
	89	Moiety of the cost of Masonry Works on the road from Narayanareddypet to Namkur—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	4,300	4,300	89
		Ordinary	...	...	...	...	...	...	...	...	...	83	...	83			
		Local	...	...	...	...	...	...	...	...	...	...	...	999			
	90	Channel from Venkatagiri River to Chennur Tank—															
		Extraordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Ordinary	4,648	...	...	...	...	...	8,010	6,859	2,200	275	21,992	...	22,675	22,400	90
	91	Improving the Nellore Tank—															
		Ordinary	...	...	1,084	4,498	2,598	5,790	4,119	228	...	...	18,317	...	18,130	17,100	91
	92	Improvements to Sarvapully Channel in connection with Nellore Anicut—															
		Extraordinary	...	...	...	...	...	...	57,228	71,596	59,529	66,980	...	2,55,333	4,20,060	4,12,100	92
		Ordinary	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	93	Collecting rough stone and Laterite for the preservation of the Pennair Anicut—															
		Ordinary	...	...	...	...	...	...	...	5,664	...	...	...	5,664	10,000	10,000	93
	94	Constructing an Embankment along the right bank of the Pennair River—															
		Ordinary	10,223	...	...	...	...	3,560	...	...	...	...	13,783	...	13,410	13,410	94
	95	Improving the Edur Kodur branch of Jaffer Sahib's Channel and the Laboor branch of the Jaffer Sahib's Channel—															
		Ordinary	6,105	7,786	6,441	2,453									57,700	27,100	95
			10,296	8,578	4,459	5,944	4,495	1,476	...	...	...	...	58,689	...	680	30,600	
	96	Pottapudi dividing dam—				3										680	96
		Ordinary	...	...	653												
		Carried over ... Extraordinary ...	...	...	...	...	...	...	62,363	71,848	60,065	67,505	770	2,61,011	...	...	
		Ordinary ...	91,625	55,983	39,359	27,737	10,805	19,138	16,731	12,751	2,200	1,503	2,17,315	54,853	8,09,125	...	
		Local ...	...	...	...	...	...	...	...	...	...	...	...	8,499	...	...	

* Rs. 1.536, recovered in 1863-64 and 1864-65, were not deducted from the outlay of those years. Hence the cause of the difference between the total amount of expenditure shown in this Statement and that exhibited in the Outlay Account of 1870-71.

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	62,363	71,848	60,005	67,505	770	2,61,011	8,09,125	...	
		Brought forward ... Ordinary ...	91,625	55,983	39,359	27,737	10,805	19,138	16,761	12,751	2,200	1,503	2,17,315	60,577	...	...	
		Brought forward ... Local ...	...	...	...	...	...	...	...	...	...	...	...	8,499	...	...	
PENNAIR DELTA WORKS (NELLORE),—*contd.*	97	Iron Aqueduct across Sevapully Channel—															
		Ordinary	...	...	...	2,570	...	...	...	...	...	...	2,570	...	2,700	2,700	97
	98	Constructing a Calingula in the Veeranacampur Tank—															
		Ordinary	686	...	4,668	283	...	...	...	...	...	...	5,642	...	5,460	5,460	98
	99	Allur Tank Revetment—															
		Ordinary	9,588	3,951	1,092	15	...	...	...	...	...	...	14,646	...	14,700	14,700	99
	100	Nellore Tank Revetment—															
		Ordinary	8,165	388	3,198	...	...	...	...	...	...	...	11,751	...	11,500	11,500	100
	101	Anicut across the Pennair—															
		Ordinary	1,27,162	790	...	...	...	...	...	...	...	...	1,27,952	...	1,31,649	1,31,649	101
	102	Raising Vague Channel Head Sluice—															
		Ordinary	1,520	40	...	...	...	...	...	...	...	...	1,560	...	1,492	1,492	102
	103	Constructing Head Sluice over Gandurvanum Channel—															
		Ordinary	4,657	364	...	...	...	...	...	...	...	...	5,021	...	4,270	4,270	103
	104	Constructing Head Sluice over Duvur Channel—															
		Ordinary	2,961	231	...	...	...	...	...	...	...	...	3,192	...	3,083	3,083	104
		Extraordinary ...	...	...	...	...	...	...	62,363	71,848	60,065	67,505	770	2,61,011	...	...	
		Ordinary ...	2,46,364	61,747	48,317	30,610	10,805	19,138	16,731	12,751	2,200	1,503	3,89,649	60,517	9,83,983	...	
		Local ...	...	...	...	...	...	...	...	...	...	...	...	8,499	...	...	
		Total ...	2,46,364	61,747	48,317	30,610	10,805	19,138	79,094	84,599	62,265	69,008	3,90,419	3,30,027	...	...	
MADRAS WATER-SUPPLY PROJECT.	105	Madras Water-supply Project—															
		Extraordinary	...	...	...	...	...	...	2,85,153	2,57,513	2,40,796	62,154	...	8,45,616	6,11,759	6,11,759	105
		Ordinary	...	...	...	...	...	60,411	...	...	...	60,701	...	1,21,112			
		Total ...	...	...	...	...	...	60,411	2,85,153	2,57,513	2,40,796	1,22,855	...	9,66,728	6,11,759	...	
CHEYAR ANICUT PROJECT.	106	Improving and strengthening the Nullulam Tank—															
		Ordinary	...	...	...	...	...	...	...	3,899	...	...	3,899	...	3,900	3,900	106
	107	Improving and strengthening the Koonaloor Tank—															
		Ordinary	...	...	...	...	...	...	...	4,500	...	...	4,500	...	4,500	4,500	107
	108	Improving and strengthening the Naicknary Tank—															
		Ordinary	...	...	...	...	...	...	...	3,623	...	...	3,623	...	3,600	3,600	108
	109	Raising the Cheyam Anicut, enlarging Masonry Works and widening Channels—															
		Ordinary	...	...	...	9,589	5,997	19,775	...	...	...	...	35,361	...	35,000	29,700	109
		Carried over ...	...	...	...	9,589	5,997	19,775	...	12,022	...	...	47,383	...	47,000	...	

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...	9,589	5,997	19,775	...	12,022	...	...	47,383	...	47,000	...	
CHEYAR ANICUT PROJECT,—*contd.*	110	Widening and deepening the Chayam Channel below Mookoor—															
		Ordinary	10,089	...	...	...	...	...	17,911	...	...	...	28,000	...	28,000	28,000	110
	111	Widening and deepening the branch channel from the main channel of Chayam at Nullalum and Letby—															
		Ordinary	...	...	...	...	..	...	...	19,999	12,491	15,542	48,032	...	47,600	47,600	111
	112	Widening and Improving the channel from Coniloor to Covilavadu—															
		Ordinary	...	...	...	...	...	...	...	1,340	3,010	850	5,200	...	5,200	5,200	112
	113	Cutting a channel from Pooroosay Tank to Vadunaugoor—															
		Ordinary	...	...	...	....	...	...	...	4,200	...	...	4,200	...	4,200	4,200	113
		Total Ordinary	10,089	...	...	9,589	5,997	19,775	17,911	37,561	15,501	16,392	1,32,815	...	1,32,000	...	
PALAR PROJECT	114	Cutting a channel from Cahray Tank to Vellumby Large Tank—															
		Ordinary	...	...	...	...	...	...	...	1,750	1,400 149*	100	3,399	...	3,400	2,550	114
	115	Cutting a channel from the Mahandravady Channel to Cauveripank Tank in continuation of Palar Anicut Project—															
		Ordinary	...	...	...	...	...	...	8,240	...	...	...	8,240	...	8,240	8,240	115
	116	Completing the South Calingulah surplus channel of the Mahandravady Tank—															
		Ordinary	...	...	...	3,500	1,500	...	...	...	...	...	5,000	...	5,000	5,000	416
	117	Improving the Mahandravady Channel and constructing Flood Calingulah in continuation of Palar Anicut Project—															
		Ordinary	...	...	...	...	...	...	7,500	...	...	...	7,500	...	7,500	7,500	117
	118	Altering and improving the Calingulah of the Cauveripank Tank—															
		Ordinary	...	...	...	...	...	...	6,000	...	...	...	6,000	...	6,000	6,000	118
	119	Improving Tank Bund and constructing Calingulahs and sluices to Mamandoor Tank—															
		Ordinary	...	...	...	...	...	...	3,836	994	...	...	4,830	...	4,850	4,330	119
	120	Channel from Palar river for the irrigation of the Seevarum and Seroonavalpett Villages—															
		Ordinary	...	...	...	...	...	...	...	3,600	...	...	3,600	...	3,625	3,625	120
	121	Palar Anicut Project—															
		Madras portion, Ordinary	56,309	77,152	48,298	20,211	170	104	...	...	...	...	8,62,916	...	8,66,144	2,93,273	121
		North Arcot do. Ordinary	5,35,843	59,752	30,732	24,344	10,001									5,72,871	
	122	Cutting a channel from the South sluice of the Mahandrardy Tank to Naryenthangal Tank and constructing under-sluices—															
		Ordinary	...	...	...	3,959	941	...	...	...	...	...	4,900	...	4,900	4,900	122
	123	Raising the body of the Palar Anicut—															
		Ordinary	...	...	...	7,700	...	...	...	...	...	...	7,700	...	7,700	7,700	123
		Carried over ...	5,92,152	1,36,904	79,030	59,714	12,612	104	25,576	6,344	1,549	100	9,14,085	...	9,17,359	...	

* This sum was treated as expense on Minor Works in the year 1869-70.

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	5,92,152	1,36,904	79,030	59,714	12,612	104	25,576	6,344	1,549	100	9,14,085	...	9,17,359	...	
PALAR PROJECT, —*continued.*	124	CONSTRUCTING A CUT-STONE APRON IN REAR OF THE BODY-WALL OF THE PALAR ANICUT—															
		Ordinary	...	...	...	2,000	10,596	...	...	...	...	...	12,596	...	12,700	12,700	124
		TOTAL ORDINARY ...	5,92,152	1,36,904	79,030	61,714	23,208	104	25,576	6,344	1,549	100	9,26,681	...	9,30,059	...	
NORTH ARCOT ...	125	POINEY ANICUT PROJECT—ENLARGING THE CHANNEL AND CONSTRUCTING OTHER SUBSIDIARY WORKS CONNECTED WITH THE POINEY ANICUT PROJECT—															
		Ordinary	10,001 39,952	25,246 ...	47,148 ...	16,526 ...	957 65	...	...	...	...	...	1,39,895	...	2,16,073	1,53,283 62,790	125
CHINGLEPUT ...	126	CHAMBRAMBAKUM TANK PROJECT—															
		Extraordinary	...	...	...	...	...	...	...	84,743	93,800	...	...	1,78,543	3,55,430	3,55,430	126
		Ordinary	...	...	...	...	...	...	20,000	...	...	39,585	...	59,585			
TANJORE ...	127	ADDITIONAL LATERITE AND ROUGH-STONE APRON WITH RETAINING WALLS, AT THE ADVANCED PORTION OF THREE SLUICES IN THE SOUTH BRANCH OF THE LOWER COLEROON ANICUT—															
		Extraordinary	...	...	...	...	...	...	...	2,642	...	...	2,642	...	16,000	16,000	127
		Ordinary	...	...	...	...	7,496	...	...	...	...	...	7,496				
	128	CONSTRUCTING A SLUICE OF SEVEN ARCHES AND COMPLETING AN ADDITIONAL LATERITE AND ROUGH STONE APRON AT THE NORTH EXTREMITY OF THE SOUTH BANK OF THE LOWER COLEROON ANICUT—															
		Ordinary	...	...	...	...	21,027	40,153	24,219	3,286	...	...	88,685	...	81,880	74,000	128
	129	COMPLETION OF A FRONT AND REAR RETAINING WALL AND APRON ALONG THE SOUTH BRANCH OF THE LOWER COLEROON ANICUT—															
		Extraordinary	...	...	...	...	...	...	...	12,072	5,677	3,324	21,073	...	88,250	88,250	129
		Ordinary	...	...	...	...	...	10,996	22,951	...	...	...	33,947				
	130	REGULATING WORKS FOR THE IMPROVEMENTS OF THE CAUVERY—															
		Extraordinary	...	...	...	...	...	...	28,309	56,684	2,446	5,494	...	92,933	1,37,790	1,00,540	130
		Local	...	...	...	...	...	...	...	...	...	...	...	34,300			
	131	REGULATING WORKS AT THE FAMAMYAUR AND THE CORAYAUR—															
		Extraordinary	...	...	...	...	...	...	...	...	8	6,696	...	6,704			131
	132	REGULATING WORKS TO THE VENNAUR AND VALLYAR RIVER—															
		Extraordinary	...	...	...	...	...	...	...	...	...	2,850	...	2,850	1,99,450	1,99,450	132
	133	HEAD WORKS TO THE VENNAUR AND PANDUVYAUR RIVERS—															
		Extraordinary	...	...	...	...	...	...	...	...	...	6,276	...	6,276			133
	134	REGULATING WORKS AT THE VETTAUR HEAD—															
		Extraordinary	...	...	...	...	...	...	...	...	83	12,257	...	12,340			134
TRICHINOPOLY ...	135	TEN SURPLUS SLUICES ON THE NORTH BANK OF THE COLEROON—															
		Extraordinary	...	...	...	...	...	...	...	969	...	...	969	...	12,380	12,380	135
		Ordinary	...	...	...	...	2,420	3,964 2,519	2,500	...	...	...	11,403				
		Carried over ... Ordinary ...	...	...	...	...	30,943	57,632	49,670	3,286	...	...	1,41,531	...	5,35,750	...	
		Extraordinary ...	...	...	...	...	...	...	28,309	72,367	8,214	36,894	24,684	1,21,103			
		Local ...	...	...	...	...	...	...	...	...	...	...	...	34,300			

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	Expenditure during 1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total: On works in progress.	Total: Works completed.	Estimated cost: Final Estimate.	Estimated cost: Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Ordinary ...	...	...	...	...	30,943	57,622	49,670	3,286	...	...	1,41,531	...	5,35,750	...	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	28,309	72,367	8,214	36,897	24,684	1,21,103			
		Brought forward ... Local ...	...	...	...	...	...	...	...	...	...	...	...	34,300			
TRICHINOPOLY,—*continued.*	136	Surplus sluices for the Wyacondan Channel—															
		Extraordinary	...	...	...	...	...	...	...	1,825	400	...	2,225	...	16,500	16,500	136
		Ordinary	...	...	...	...	...	5,045	9 622	...	...	...	14,667				
	137	Completion of the Wyacondan Extension Project—															
		Extraordinary	...	...	...	...	...	...	...	8,117	2,637	...	10,754	...	25,860	24,800	137
		Ordinary	...	...	...	...	...	...	14,999	...	...	...	14,999				
	138	Extending the Calingulah in the south bank of Wyacondan, in the limits of Sholomadavy—															
		Ordinary	...	...	598	3,730	...	...	...	...	...	...	4,328	...	4,760	4,760	138
	139	Completing seven surplus sluices on the left branch of the Celeraon—															
		Ordinary	...	1,411	1,145	...	...	...	...	...	...	...	2,556	...	2,550	2,550	139
	140	Constructing six surplus sluices in the south bank of the Celeraon—															
		Ordinary	...	...	...	...	4,675	2,245	...	...	...	...	6,920	...	7,920	7,920	140
	141	Providing shutters to the Wyacandan Head Sluice—															
		Ordinary	...	...	...	...	...	...	...	...	...	856	...	856	2,850	2,850	141
		Tanjore—															
		Extraordinary	...	...	...	...	...	...	28,309	71,398	8,214	36,897	23,715	1,21,103	...	...	
		Ordinary	...	...	...	...	28,523	51,149	47,170	3,286	...	...	1,30,128	...	...	...	
		Local	...	...	...	...	...	...	...	...	...	...	...	34,300	...	...	
		Total ...	...	...	...	...	28,523	51,149	75,479	74,684	8,214	36,897	1,53,843	{1,21,103 L34,300	...	...	
		Trichinopoly—															
		Extraordinary	...	...	...	...	...	...	...	10,911	3,037	...	13,948	...	...	...	
		Ordinary	...	1,411	1,743	3,730	7,095	13,773	27,121	...	...	856	54,873	856	...	...	
		Total ...	...	1,411	1,743	3,730	7,095	13,773	27,121	10,911	3,037	856	68,821	856	...	...	
		Total Cauvery Delta works	...	1,411	1,743	3,730	35,618	64,922	1,02,600	85,595	11,251	37,753	2,22,664	{1,21,959 L34,300	...	...	
		Total Cauvery Delta Works—															
		Extraordinary	...	...	...	...	...	...	28,309	82,309	11,251	36,897	37,663	1,21,103	...	...	
		Ordinary	...	1,411	1,743	3,730	35,618	64,922	74,291	3,286	...	856	1,85,001	856	...	...	142
														L34,300	...	...	
MADURA ...	142	Periyar Project Ghaut Road and sundry expenses in connection with the survey of the Periyar Project—															
		Ordinary	...	...	...	...	...	...	...	...	8,158	3,599	...	11,757	...	...	14
		Local	...	...	...	...	...	...	...	...	...	...	...	L10,000			
TINNEVELLY ...	143	Sreevicoontam Anicut Project—Extending the irrigation from the Tambraporney River in the Tinnevelly District—															
		Extraordinary	...	...	...	...	...	...	...	1,04,469	3,17,276	97,511	...	{5,19,256 38,840	8,31,600 Private con	8,31,600 tribution.	
		Carried over ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total Works completed.	Total Works in progress.	Estimated Cost. Final Estimate.	Estimated Cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...												
GANJAM DISTRICT (OTHER WORKS).	144	Anicut across the Godahalla Nullah at Injelly—															
		Ordinary	...	...	...	...	6,574	831	...	...	...	...	7,405	...	8,150	8,150	144
	145	Raising and Strengthening Mahanuddy River Embankment at Aska—															
		Ordinary	3,555	...	1,235	...	...	...	...	...	...	...	4,790	...	4,790	4,790	145
	146	Construction of Head Sluice to Jayamangalum Channel—															
		Ordinary	1,526	6,294	...	...	...	...	...	...	...	...	7,820	...	7,820	7,820	146
		Total Ordinary ...	5,081	6,294	1,235	...	6,574	831	...	...	...	...	20,015	...	20,760	...	
VIZAGAPATAM DISTRICT (OTHER WORKS)	147	Constructing a Dam across Malalagedda at Thamercherla—															
		Ordinary	...	...	...	...	...	...	2,320	1,073	...	...	3,393	...	3,680		147
	148	Constructing two Dams across Malalagedda at Dimly and Saradavaddy—														1,600	
		Ordinary	...	654	...	...	...	...	...	...	...	...	654	...	1,600		148
	149	Constructing a Masonry Dam across the Calavalapilly Peddagedda—															
		Ordinary	1,467	1,464	...	...	...	...	...	...	...	...	2,931	...	2,940	2,940	149
	150	Distribution Channel from Gubbaddah Anicut—															
		Ordinary	9,613	4,169	...	3,462	...	...	...	...	...	...	17,244	...	18,198	14,300	150
	151	Constructing a Calingulah and two Sluices to the Pedda-chervoo of the Village of Chediadu—															
		Ordinary	32	1,551	1,504	...	...	...	...	...	...	...	3,087	...	2,660	2,660	151
	152	Improving the Irrigation of Thatacoolapalam—															
		Ordinary	...	646	...	...	...	...	...	...	...	...	646	...	810	810	152
	153	Constructing an Anicut across the Saradanuddy—															
		Ordinary	...	2,011	839	...	...	...	...	...	...	...	2,850	...	2,840	2,840	153
	154	Converting a large tank at Nursapatam into a reservoir to be filled up with water from the Gubbadah Anicut—															
		Ordinary	...	...	...	1,506	...	...	...	...	...	...	1,506	...	1,980	1,980	154
		Total Ordinary ...	11,112	10,495	2,343	4,968	...	...	2,320	1,073	...	...	32,311	...	34,708	...	
KISTNA DISTRICT (OTHER WORKS)	155	Restoring the Dondapand tank—															
		Ordinary	...	...	...	...	...	...	4	...	...	...	4	...	The entire grant provided for this Work was subsequently withdrawn by Government, and the Work abandoned.		155
	156	Raising and Strengthening the Embankment of the Kistna from Bezoarah to Ibrampatam—															
		Ordinary	...	...	...	1,575	2,000 / * 1,177	415	...	...	...	...	5,167	...	14,210	1,910 / 12,300 / 14,210	156
		Total Ordinary ...	...	...	...	1,575	3,177	415	4	...	...	...	5,171	...	14,210	...	

* This amount was shown as expense under "Minor Works" during 1865-66.

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total Works completed.	Total Works in progress.	Estimated Cost. Final Estimate.	Estimated Cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
CUDDAPAH DISTRICT (OTHER WORKS).	157	Restoring and Improving the Jowkallpully Tank—															
		Ordinary	...	...	...	...	...	...	...	...	3,332	617	...	3,949	5,090	5,090	157
	158	Restoring Mullapah Tank—															
		Ordinary	...	...	...	...	...	...	7,355	3,725	...	...	11,080	...	11,080	11,080	158
	159	Gunganapully Mullapah Tank—															
		Ordinary	...	...	...	...	...	...	...	...	...	3,000	...	3,000	14,770	14,770	159
	160	Restoring Somereddypully Tank—															
		Ordinary	...	...	...	...	...	...	6,230	...	...	...	6,230	...	6,540	6,540	160
	161	Mutialchern Tank—															
		Ordinary	11,252	4,483	194	...	...	...	...	...	...	...	15,929	...	15,200	15,200	161
	162	Restoring the Anuntara Tank—															
		Ordinary	1,966	1,580	...	...	...	...	...	...	...	...	3,546	...	3,440	3,440	162
	163	Restoring the Chuma Orampad Tank—															
		Ordinary	22,355	1,762	...	...	...	...	...	...	...	...	24,117	...	34,000	34,000	163
	164	Surplus Calingulah to Codoor River Channel—															
		Ordinary	...	...	...	...	...	...	995	1,725	...	...	2,720	...	2,730	2,730	164
	165	Excavating a new Head and Building, a new Head Sluice to the Dyke to Venkia Calea Channel—															
		Ordinary	...	...	...	...	...	...	6,100	...	...	...	6,100	...	6,130	6,130	165
		Total Ordinary ...	35,573	7,825	194	...	...	...	20,680	5,450	3,332	3,617	69,722	6,949	98,980	...	
BELLARY DISTRICT (OTHER WORKS).	166	Improvements to Supply Channel of Nabanidavebakerra Tank—															
		Ordinary	...	...	...	...	...	...	6,662	4,135	1,519	217	12,533*	...	12,720	12,720	166
	167	Restoring the Gootloor Tank—															
		Ordinary	...	...	...	...	...	...	18,549	16,498	8,476	5,000	...	48,523	60,500	39,400	167
	168	Pathacotha Cheevoo Tank—															
		Ordinary	...	...	...	...	...	...	1,952	2,238	1,021	...	5,211	...	5,210	4,800	168
	169	Restoring the Yerrabomamahally Tank—															
		Ordinary	...	...	...	...	...	...	3,452	4,503	562	...	8,517	...	8,342	7,350	169
	170	Establishment for conducting the Survey and Levelling Operations on the Toongabudra Channel—															
		Ordinary	...	...	2,558	...	...	...	...	...	...	...	2.558	...	4,420	4,420	170
	171	Purghee Tank—															
		Ordinary	...	5,853	874	73	...	...	...	...	...	...	6,800	...	6,680	6,680	171
		Carried over ...	...	5,853	3,432	73	...	...	30,615	27,374	11,578	5,217	35,619	48,523	97,872		

* Rs. 135 being the amount of difference between this sum and that entered in the Outlay Account for 1870-71, was omitted to be deducted from the outlay of the year in which it was recovered.

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total Works completed.	Total Works in progress.	Estimated Cost. Final Estimate.	Estimated Cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	5,853	3,432	73	...	...	30,615	27,374	11,578	5,217	35,619	48,523	97,872		
BELLARY DISTRICT—(OTHER WORKS), —*continued.*	172	SINGANAMALLA TANK—															
		Ordinary	264	2,219	3,626	...	...	...	...	...	...	...	6,109	...	6,450	5,700	172
	173	LOCHEBLAH AND BHYRAPOOR TANKS—															
		Ordinary	...	4746	785	...	...	...	...	...	...	...	5,531	...	5,500	5,500	173
	174	CONSTRUCTING A HEAD SLUICE AND CUTTING A NEW HEAD TO SIDDRAMPOORUM CHANNEL—															
		Ordinary	...	...	...	...	...	...	...	...	1,629	1,501	3,130	...	3,130	3,130	174
	175	RAGGY MOOSULWADAH TANK CALINGULAH—															
		Ordinary	...	...	...	...	...	...	56	2,528	837	...	3,421	...	3,390	3,390	175
	176	SIRGOOPAH CHANNEL—															
		Ordinary	4,581	3,777	2,505	300	...	...	...	...	...	...	11,163	...	14,440	14,440	176
	177	CONSTRUCTING AN ANICUT ACROSS THE JIGGY NULLAH—															
		Ordinary	277	2,523	...	...	...	...	...	...	...	...	2,800	...	2,800	2,800	177
		Total Ordinary ...	5,122	19,118	10,348	373	...	...	30,671	29,902	14,044	6,718	67,773	48,523	1,33,582	...	
CHINGLEPUT OR MADRAS DISTRICT—(OTHER WORKS).	178	RESTORING COOTILLIAR RIVER EMBANKMENT AND CONSTRUCTING A FOURTEEN-YARD SLUICE AT VULLOOR—															
		Ordinary	...	...	...	...	...	...	5,846	274	...	...	6,120	...	6,120	6,120	178
	179	RENEWING AND FORMING A NEW EMBANKMENT TO NARNAVERAM RIVER IN THE LIMITS OF THE PEROOVOIL—															
		Ordinary	...	...	...	...	...	...	2,600	...	...	...	2,600	...	2,600	2,600	179
	180	CONSTRUCTING AN ANICUT ACROSS THE CORTELLIAR RIVER AT VULLOOR AND CUTTING A NEW CHANNEL—															
		Ordinary	...	...	...	...	...	...	...	19,991	9,925	11,341	41,257	...	40,925	36,000	180
	181	CONSTRUCTING AN ANICUT ACROSS THE NEERGDINDUGOO IN THE LIMITS OF THE YELLASOOR AND EXCAVATING CHANNEL TO SUPPLY TANKS ON EITHER SIDE IN THE CONJEVERAM AND CHINGLEPUT TALUQS—																
		Ordinary	...	...	...	...	...	...	11,382	6,984	...	...	18,366	...	...	...	181
	182	STONE REVETMENT TO BREACHED PORTIONS OF THE BUNGAROO CHANNEL BANKS—															
		Ordinary	...	...	...	...	...	...	7,523	...	...	...	7,523	...	7,370	7,370	182
	183	CUTTING A NEW HEAD TO THE NAGALAPOORAM BLACK TANK RIVER SUPPLY CHANNEL, AND CONSTRUCTING A NEW HEAD SLUICE TO NARNAVERAM RIVER—															
		Ordinary	...	...	...	...	...	...	3,380	...	...	...	3,380	...	3,380	3,380	183
	184	WIDENING AND DEEPENING THE HEAD OF BUNGAROO CHANNEL—															
		Ordinary	...	...	...	...	...	...	5,301	...	...	...	5,301	...	5,300	5,300	184
		Carried over ...	...	...	...	...	...	...	36,032	27,249	9,925	11,341	84,547	...	65,695		

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total: Works completed.	Total: Works in progress.	Estimated cost: Final Estimate.	Estimated cost: Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	...	...	...	...	...	...	36,032	27,249	9,925	11,341	84,547	...	65 695	...	
CHINGLEPUT OR MADRAS DISTRICT—(OTHER WORKS),—*contd.*	185	Regulating sluices to the heads of 16 Channels of the Bungaroo Channel and Coomu River—															
		Ordinary	...	...	...	...	...	...	...	8,760	...	...	8,760	...	10,000	10,000	185
	186	Vulloor River Channel Head Sluice and Bridge—															
		Ordinary	...	...	...	3,173	1,483	...	...	...	...	...	4,656	...	3,875	3,875	186
	187	Madrantacum Tank, Calingulah surplus water Project—															
		Ordinary	...	...	...	...	...	...	4,030	15,740	922	1,793	22,485	...	21,945	20,900	187
	188	Restoring the Malapedoo Tank—															
		Ordinary	2,884	...	...	1,820	...	...	...	...	...	...	4,704	...	4,704	3,350	188
		Total Ordinary ...	2,884	...	...	4,993	1,483	...	40,062	51,749	10,847	13,134	1,25,152	...	1,06,219	...	
NORTH ARCOT DISTRICT—(OTHER WORKS)	189	Strengthening the 2nd apron &c., to the Alliahbad Dam															
		Ordinary	...	...	...	...	...	...	...	...	...	2,680	...	2,680	3,950	3,950	189
	190	Reconstructing the Alliahbad Dam across the Sedar River near Padmanedu and improving the channel from thence to Alliahbad Tank—															
		Ordinary	...	...	...	...	...	...	30,437	...	...	...	30,437	...	31,700	31,700	190
	191	Restoring Agraram Channel—															
		Ordinary	1,500	...	...	...	...	...	1,700	...	...	...	3,200	...	3,200	3,200	191
	192	Widening and deepening Tuckolm Channel—															
		Ordinary	...	...	...	3,083	317	...	...	...	...	...	3,400	...	3,400	3,400	192
	193	Mailcoopum high level Reservoir—															
		Ordinary	...	...	...	...	...	...	...	1,004	5,216	38	6,258	...	6,320	6,320	193
	194	Restoring the Calasamudrum ruined Tank—															
		Ordinary	...	...	...	...	...	...	8,084	...	...	...	8,084	...	8,085	7,300	194
	195	Restoring the Turanjal Coopum Tank—															
		Ordinary	...	...	...	...	...	...	5,512	...	...	...	5,512	...	5,565	5,300	195
		Total Ordinary ...	1,500	...	...	3,083	317	...	45,733	1,004	5,216	2,718	56,891	2,680	62,220	...	
SOUTH ARCOT DISTRICT—(OTHER WORKS).	196	Constructing an Anicut across the Vellore River near Palandorai—															
		Extraordinary	...	...	...	...	...	...	...	...	...	37,741	...	37,741	1,98,235	1,98,235	196
	197	Constructing an Anicut across the Mani Moothanadi River near Mamathur—															
		Ordinary	...	...	...	...	...	1,600	2,078	12,879	21,127	15,230	...	52,914	55,800 / 4,000	55,800	197
	198	Constructing an Anicut across the Myoorah Nuddy River near Kattoomyloor—															
		Ordinary	...	...	...	...	...	...	...	...	...	4,774	4,843	...	9,617	11,000	11,000	198
		Carried over { Extraordinary... / Ordinary ...	... / ...	... / ...	... / ...	... / ...	... / ...	1,600	2,078	12,879	25,901	37,741 / 20,073	... / ...	37,741 / 62,531	1,98,235 / 70,800		

Account for 1870-71 has been credited to "Revenue Miscellaneous".

* The difference (Rs. 540) between this sum and that shewn in the Outlay

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	Expenditure during 1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total Works completed.	Total Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... Extraordinary ...	...	...	...	...	...	...	...	...	...	37,741	...	37,741	1,98,235		
		Ordinary ...	...	...	...	...	...	1,600	2,078	12,879	25,901	20,073	...	62,531	70,800		
SOUTH ARCOT DISTRICT—(OTHER WORKS).	199	Altering the Vicravandy Anicut and Channel—															
		Ordinary	...	...	...	...	...	...	1,946	...	...	...	1,946	...	5,978	5,978	199
	200	Constructing an Anicut across the Mani Muthanadi River near Virdachellum—															
		Ordinary	...	...	...	...	...	...	27,022	7,824	...	...	34,846	...	34,750	34,750	200
	201	Restoring the portions washed away in Trevandepuram Anicut—															
		Ordinary	...	...	...	6,791	1,728	...	...	...	...	...	8,519	...	8,521	8,521	201
	202	Lengthening the body of the Trevandipuram Anicut—															
		Ordinary	...	...	...	3,706	...	...	...	...	...	...	3,706	...	4,270	4,270	202
	203	Constructing Buttresses, Embankments, Rough Stone Groynes, &c., for the Poonjar Anicut—															
		Ordinary	1,838	...	1,424	...	...	...	...	...	...	...	3,262	...	3,200	3,200	203
	204	Restoring the portions washed away by the flood in the Vanamadavy Anicut—															
		Ordinary	...	...	...	2,304	...	...	...	...	...	...	2,304	...	2,505	2,505	204
	205	Anicut across the Ponnyaur—															
		Ordinary	49,405	7,881	...	...	...	...	...	...	...	...	57,286	...	61,000	61,000	205
	206	Lengthening the body of the Tirunady Anicut on the Gudilum River—															
		Ordinary	...	...	...	6,546	...	...	...	...	...	...	6,546	...	9,040	5,500	206
	207	Improving the Allungal, &c., Channels—															
		Ordinary	...	...	...	...	...	...	...	...	3,688	4,455	...	8,143	15,330	12,620	207
	208	Cutting the Pombay Channel from the northern end of the Poonjar Anicut to supply a portion of the Villapuram Taluq—															
		Ordinary	...	...	...	...	...	...	26,978	14,181	4,229	6,069	...	51,457	51,400	45,400	208
	209	Improving the supply channel from the Ragavien Channel for the Pudupolayiem Tank and re-opening the old Amoor Channel—															
		Ordinary	...	...	...	...	...	...	8,830	404	...	...	9,234	...	8,830	8,830	209
	210	Divisional Sluices across the Wallaja main and branch Channels from the Poonaie River—															
		Ordinary	...	...	...	...	...	...	...	1,530	...	...	1,530	...	1,530	1,530	210
	211	Improving and extending the Goverapatt Channel—															
		Ordinary	7,743	3,560	1,432	4,821	1,444	...	...	...	...	...	19,000	...	19,000	19,000	211
	212	Reconstructing the Vibanam Channel head Sluice—															
		Ordinary	...	...	...	1,118	...	...	...	...	...	...	1,118	...	3,450	3,450	212
	213	Enlarging the Vyloor Tank—															
		Ordinary	...	...	...	...	...	...	...	...	2,005	2,658	...	4,663	6,065	6,065	213
		Carried over ... { Extraordinary ... Ordinary ...	... 58,986	... 11,441	... 2,856	... 25,286	... 3,172	... 1,600	... 66,854	... 36,818	... 33,823	37,741 33,255	... 1,49,297	37,741 1,26,794	1,98,235 3,05,669		

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated Cost. Final Estimate.	Estimated Cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ... {Extraordinary ... / Ordinary ...	58,986	11,441	2,856	25,286	3,172	1,600	66,854	36,818	33,823	37,741 / 33,255	1,49,297	37,741 / 1,26,794	1,98,235 / 3,05,669	... / ...	
SOUTH ARCOT DISTRICT—(OTHER WORKS), —*contd.*	214	Forming a new tank at Kottarcolum in the Trinamalay Taluq—															
		Ordinary	...	...	...	...	...	...	...	1,043	1,555	...	...	2,598	2,740	2,740	214
	215	Extending the covered Calinguiah in the southern bank of the Permaul Tank—															
		Ordinary	...	...	...	...	...	3,500	...	...	...	...	3,500	...	3,500	3,500	215
	216	Strengthening the right bank of the Guddilum River—															
		Ordinary	...	...	...	2,310	...	...	...	...	...	...	2,310	...	3,650	2,200	216
		Extraordinary ...	...	...	...	...	...	...	...	...	...	37,741	...	37,741	1,98,235	...	
		Ordinary ...	58,986	11,441	2,856	27,596	3,172	5,100	66,854	37,861	37,378	33,255	1,55,107	1,29,392	3,15,559	...	
		Total ...	58,986	11,441	2,856	27,596	3,172	5,100	66,854	37,861	37,378	70,996	1,55,107	1,67,133	5,13,794	...	
SALEM DISTRICT—(OTHER WORKS.)	217	Constructing Valamadary Tank—															
		Ordinary	...	...	...	...	...	...	...	2,165	279	1,215	...	3,659*	8,670	8,670	217
	218	Constructing Chinna Kistnapooram Tank—															
		Ordinary	...	...	...	...	...	...	...	...	793	3,658	...	4,451	8,070	8,070	218
	219	Restoring the Seeravalay ruined Tank—															
		Ordinary	...	...	...	...	...	...	3,666	6,037	1,341	1,043	12,087	...	11,500	11,500	219
	220	Constructing 2 new Tanks at Vallayapatty—															
		Ordinary	...	...	...	...	...	...	2,071	285	...	...	...	2,356	8,350	8,350	220
	221	Restoring the Koorchy Anicut Tank and Channels—															
		Ordinary	844	1,855	...	...	...	...	...	...	...	...	2,699	...	2,699	2,699	221
	222	Constructing an Anicut across the Svathanuddy River Channel at Kistnapooram—															
		Ordinary	...	...	...	...	...	...	1,258	...	...	45	...	1,303	5,150	5,150	222
	223	Restoring the Goodoomalay Moothoobiarken ruined Anicut—															
		Ordinary	...	...	...	...	...	...	1,075	...	...	45	...	1,120	4,920	4,920	223
	224	Constructing an Anicut and Channel across the Svathanuddy River for the Velliyoor Tank—															
		Ordinary	...	...	...	...	...	...	1,229	2,462	399	1,856	...	5,946	8,650	8,650	224
	225	Improvement and extension of the Channel from the Allialum Anicut across the Pennar River—															
		Ordinary	...	...	...	...	...	...	...	4,679	574	...	5,253	...	5,260	4,680	225
		Total Ordinary ...	844	1,855	...	...	...	...	9,299	15,628	3,386	7,862	20,039	18,835	63,269	...	

* The total expenditure as exhibited in the outlay account for 1870-71, is less than this amount by Re. 20, being the sumrecovered prior to that year but not deducted from outlay of the year in which it was recovered.

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total Works completed.	Total Works in progress.	Estimated Cost. Final Estimate.	Estimated Cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
TANJORE DISTRICT (OTHER WORKS).	226	Constructing a surplus Dam on the bank of the Anuntha Cauvery in the Vichalore limits—										7,452	7,452	...	7,400	7,400	226
		Ordinary	...	...	...	...	...	...	...	...	...						
	227	Constructing a Fish Dam at Lower Anicut—									1,274	1,751	3,025	...	3,060	3,060	227
		Ordinary	...	...	...	...	...	...	...	...							
	228	Collecting rough stone for the Lower Coleroon Anicut—					3,736*	4,938	7,500	...	...	...	16,174	...	17,850	17,850	228
		Ordinary	...	...	...	...											
	229	Taking up old Apron and relaying at the Lower Coleroon Anicut, south branch—							819	3,851	462	...	5,132	...	9,950	3,800	229
		Ordinary	...	...	...	...	...	...									
	230	Shutters for the Lower Anicut—								3,131	...	...	3,131	...		3,200	230
		Ordinary	...	...	...	...	...	...	...								
	231	Concrete flooring over the Aprons of ditto ditto—									675	...	675	...		2,950	231
		Ordinary	...	...	...	...	...	...	...	...							
	232	Re-building portions of the Coleroon Anicut and adding Aprons—				19,743	9,786	...	...	...	...	...	29,529	...	63,000	63,000	232
		Ordinary	...	...	...												
	233	Re-constructing fallen portions of the South branch of the Lower Anicut—			13,640	7,937	...	...	...	...	...	...	21,577	...	24,000	24,000	233
		Ordinary	...	...													
	234	Improving the head of Vadavaur by destroying the Bramboor Drain—				...	1,900	3,284	...	...	...	...	5,184	...	5,184	5,184	234
		Ordinary	...	...	...												
	235	Constructing a Head Sluice at the head of the Chittaior in lieu of the Bridge—			3,044	1,320	...	...	...	...	...	...	4,364	...	4,740	4,740	235
		Ordinary	...	...													
	236	Constructing and extending revetment walls to the Korumbu of Yenkur below the Valyur Head Sluice—				...	...	...	...	...	...	...	2,773	...	2,800	2,800	236
		Ordinary	1,909	864	...												
		Total Ordinary ...	1,909	864	16,684	29,000	15,422	8,222	8,319	6,982	2,411	9,203	99,016	...	1,37,984	...	
TRICHINOPOLY DISTRICT (OTHER WORKS).	237	Re-constructing an Under-Tunnel across Peroovally in the limits of Tenapanalloor—									2,327	271	2,598	...	2,600	2,600	237
		Ordinary	...	...	...	...	...	...	...	...							
	238	Re-constructing an Under-Tunnel across Peroovally in the limits of Karimanieum—									3,118	502	3,620	...	3,620	3,620	238
		Ordinary	...	...	...	...	...	...	...	...							
	239	Murthyaur Under Tunnel—	1,125	15,403	...								16,528	...	25,050	25,050	239
		Ordinary				...	...	...	...	...	...	...					
	240	Extending the Calingula of Vembanoor Tank in the Kulitally Taluq—												1,879	...	...	240
		Ordinary	...	...	...	...	...	...	...	...				P.C. 1,771	...	From private contributions.	
		Carried over ...	1,125	15,403	...	...	...	...	...	...	5,445	2,652	22,746	3,650	31,270	...	

* This amount was shown under "Repairs" in 1865-66, but was subsequently transferred to "New Works."

DETAIL OF EXPENDITURE ON AGRICULTURAL WORKS IN MADRAS, FROM 1862-63 TO 1870-71—*continued.*

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	1,125	15,403	...	...	...	...	...	...	5,445	2,652	22,746	3,650	31,270		
TRICHINOPOLY DISTRICT (OTHER WORKS), —*contd.*	241	Improvements to the Nungavoikal Head with masonry works—															
		Ordinary	...	...	...	...	...	...	...	...	...	4,701	...	4,701	12,500	12,500	241
	242	Extending the Calingulah in the left bank of the Covalay Channel in the limits of Thirnvaremboor—															
		Ordinary	...	...	304	2,567	...	...	...	...	...	...	2,871	...	3,170	3,170	242
	243	Improving Pernvallay Channel and constructing Head Sluice and Dam—															
		Ordinary	15,661	3,495	5,044	499	...	...	...	...	...	...	24,699	...	24,700	24,700	243
	244	Constructing a double row of shutters to the Head Sluice of Nadoocaray Notvoikal in the limits of Mailoor—															
		Ordinary	4,138	140	...	...	...	...	...	...	...	...	4,278	...	4,280	4,280	244
	245	Nundiar Anicut Extension Project—															
		Ordinary	...	...	...	...	...	...	13,950	15,394	2,359	...	31,703	...	30,500	30,500	245
	246	Completing Ponnairy Project—															
		Ordinary	15,985	...	2,919	...	...	...	...	...	...	...	18,904	...	19,170	19,170	246
	247	Extending the Calvarrayen Tank Calingulah in Shohunadary limits—															
		Ordinary	...	...	348	1,926	...	...	...	...	...	...	2,274	...	2,900	2,900	247
		Total Ordinary ...	36,909	19,038	8,615	4,992	...	...	13,950	15,394	7,804	7,353	1,07,475	6,580 1,771	1,28,490 Private	... contribution.	
COIMBATORE DISTRICT (OTHER WORKS).	248	Aqueduct over the Vanipuththur Jungle Stream—															
		Ordinary	...	...	...	...	...	...	7,087	12,366	9,597	4,450	33,500	...	29,500	4,800 24,700	248
	249	Aqueduct over the Mangamary Stream—															
		Ordinary	...	...	...	...	...	...	5,432	6,940	5,806	...	18,178	...	16,100	16,100	249
	250	Constructing 4 Groynes in the River Cauvery between Mullempolliem and Meroor—															
		Ordinary	...	...	...	...	...	...	...	7,158	3,099	461	10,718	...	10,655	10,655	250
	251	Three rough stone Groynes at Nunjacadumbacoorechy for the preservation of the Vangoor Channel—															
		Ordinary	...	144	3,775	...	...	...	...	...	...	...	3,919	...	3,920	3,920	251
	252	Embankment across the Bhowany River below the Junction of the Anchinchey and Poodity Nullahs—															
		Ordinary	...	...	...	...	...	...	...	...	31,975	3,500	...	35,475	...	...	252
	253	Masonry Sluices in the Thadapully Channel—															
		Ordinary	16,936	7,939	18,443	2,955	2,708	1,490	4,337	3,375	269	...	58,452	...	58,318	60,351	253
	254	Masonry sluices in the Arkencotta Channel—															
		Ordinary	...	...	...	...	2,000	1,004	911	...	...	...	3,915	...	20,067	17,237	254
	255	Improving Arkenkotta Channel—															
		Ordinary	7,377	3,749	1,952	1,944	...	...	...	...	...	...	15,022				255
		Carried over ...	24,313	11,832	24,170	4,899	4,708	2,494	17,767	29,839	50,746	8,411	1,43,704	35,475	1,38,555		

Station.	Item No.	Works.	Up to end of 1861-62.	1862-63.	1863-64.	Expenditure during 1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	Total. Works completed.	Total. Works in progress.	Estimated cost. Final Estimate.	Estimated cost. Original Estimate.	Item No.
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
		Brought forward ...	24,313	11,832	24,170	4,899	4,708	2,494	17,767	29,839	50,746	8,411	1,43,704	35,475	1,38,555	...	
COIMBATORE DISTRICT (OTHER WORKS)—*contd.*	256	Head Sluices in the Arkencotta Channel—															
		Ordinary	...	...	...	2,000	3,000	271	...	...	...	...	5,271	...	6,500	6,500	256
	257	Constructing 129 Distributing Sluices to Irrigation Channels in the Caroor Taluq—															
		Ordinary	...	...	...	1,022	1,943	2,346	1,354	...	...	...	6,665	...	6,672	6,672	257
	258	Constructing 114 Distributing Sluices to Irrigation Channels in the Darapuram Taluq—															
		Ordinary	...	...	...	...	1,954	3,105	300	...	...	...	5,359	...	5,358	5,358	258
	259	Widening, improving, &c., Colingavady Channel—															
		Ordinary	...	...	...	...	...	...	17,696	1,708	535	...	19,939	...	19,971	17,696	259
	260	Improving the lower 4 miles of the Nungupoogalore Channel—															
		Ordinary	...	...	...	...	...	2,128	1,272	...	...	...	3,400	...	3,400	3,400	260
	261	Improving the Seveperetty and Padyore Channels in the Caroor Taluq—															
		Ordinary	...	...	...	...	...	2,220	1,685	...	...	...	3,905	...	3,905	3,500	261
	262	Constructing 4 Calingulahs in the Calingaroyen Channel—															
		Ordinary	...	...	...	...	...	740	2,105	...	...	...	2,845	...	3,065	3,065	262
		Total Ordinary ...	24,313	11,832	24,170	7,921	11,605	13,304	42,179	31,547	51,281	8,411	1,91,088	35,475	...	1,77,426	

P. W. 6180/72.

15th January/73

134-135

No 226 S.

From

The Accountant-General,
Public Works Department.

To

The Controller of
Public Works Accounts
Madras.

Sir William's Reminder 2?

Sir,

I have the honor to
acknowledge receipt of Your
letter No 1515 dated 4th
October 1872, requesting your
indulgence to furnish the
original and Reference
Number of Irrigation works
under the Government of
Madras to end of 1871-72,
and in detail to guide
Audit in verifying
the Balances.

2. It is readily admitted

Enclosure in an Endorsement from the Controller of P.W. Accounts to the Secretary to Government P.W. Department, dated 11th December 1872 No. 2130.

P. W. 6180/72.

that much difficulty will be experienced in the preparation of the required account, for several of these works - especially for those which have been constructed by native Governments. But the anticipated difficulty in this respect need not prevent the preparation of an account for the works on which loan funds have been expended. It is certainly the case that you have not the means of showing accurately the revenue derived from such works. But the most reliable information that is available should be given, and when the orders of the Government of Madras requiring the subdivision of the several works into groups have been carried into effect the capital account can be re-arranged. But meanwhile, I must ask you to take immediate steps to prepare the series of accounts required in my letter No 1732, dated 24th September 1892.

3. For the present, the account may be confined to the 30 works

entered in the abstract of financial results and for such other works on which loan funds have been expended, the inclusion of the latter being obviously necessary in order to make the total charge to loan funds correspond with the aggregate charge under Extraordinary in the several Appropriation accounts. If there are other works the outlay on which was provided from Ordinary Revenues and the Capital expenditure on which is known, there is no objection

against including such works in the account. In fact it should be done, but the amount need not be delayed for the purpose.

4. The forms prescribed require the outlay to end of 1870-71 and for 1871-72 to be shown under the following heads for each project.

From loan funds
- Works
- Establishment
- Plant
- Suspense accounts including stock.

From Ordinary revenues
- As above.

5. Now as regards the outlay from loan funds there ought

to be no difficulty in giving
the required information
for that is shown in the
several appropriation accounts,
and it is easy to arrive at
the aggregate of the amounts
so shown. It is only on the
one of the outlay from
ordinary revenues that
any difficulty will be
experienced in ascertaining
the actual sum to be debited
to the capital account. But
with a little trouble this
difficulty will be overcome
for most of the 30 works
to be entered on the return
of these 30 works the three

Carpis are the Godavery,
Kistna, and Pennaur
Anicut Projects. It is
understood that when
the late Colonel Anderson
was Chief Engineer of
Irrigation for Madras,
he prepared a series of
Statements showing the
outlay from Commencement
to end of 1864-65 or 1865-66
on each of these Projects. These
Statements should be obtained
from the Chief Engineers
Office, and made the basis
of the entries for Capital
outlay on the Projects
referred to.

y. To the entries shown on the Statements the outlay of succeeding years should be added. That outlay as far as the expenditure on works is concerned is easily obtainable from the "detail of expenditure on Agricultural works" a copy of which has been furnished to your Office. For Establishment the figures should be arrived at in the manner mentioned in Col. Strachey's report on Irrigation Finance and management. And for Tools and Plant a proportion of the total Expenditure in the Madras Presidency should be entered.

The total thus arrived at will differ from the figures given in the Abstract of financial results, but this is only to be expected. For two other works to be entered in the Statement are the Madras water supply Project and the Chembrumbaram Tank Project. Commenced in 1865/67 and 1867. In these it ought to be no difficulty in your entering the exact sums spent on each of these projects. But I deem it necessary to ask you to take particular care that the capital account of the works is debited with a

proper share of the cost of
Establishment. The same
remark applies to the case
of the Shevaroy Anicut
Project, a work which was
commenced in 1865 by only
9 Then no works are the
largest of the 30 works
referred to. For the remainder
of these 30 works it is left to you
to determine in consultation
with the Chief Engineer how
the capital outlay may
best be arrived at for present
use. If no other information
is available the figures given
in the abstract of financial
results[x] may be entered as

[x] as outlay be end of 1864-65, added to the subsequent outlay since that year as shown in the volume mentioned in para 7.

[x] with such corrections as entries in the volume referred to above may ascertain.

the capital outlay to end of
1870-71. For 1871-72, the
outlay should be ascertained
from the records in your office.
10. For the Revenue account
there is no option at present
but to take for the results
to end of 1870-71 the figures
given in the abstract of
financial results[x] But
these figures should first be
modified by the inclusion
of charges which have been
omitted from the accounts.
Thus in the case of the Godavery
and Kistna Delta works the
charges for Conservancy and
Executive Establishments

from 1867.68. to 1870.71. have been omitted. Their amounts should be ascertained and added to the account. The wise course should be followed as regards the receipts from navigation and plantations which appear to have been excluded from the returns. In fact the account should be carefully examined and all omissions whether under capital or under Revenue filled in —

11 As regards the Revenue charges of 1871.72 there ought to be no difficulty in ascertaining the amounts to be debited to the Revenue account of each of the several

projects referred to. Here charges consist chiefly of outlay on works not debitable to capital, expenditure on repairs and proportion of charges for establishment and tools and plant. The two former can be obtained from the records of your office while the amount of the latter can easily be calculated. It is only where the receipts are concerned that the matter becomes difficult.

12. Of these receipts the revenue derived from navigation and plantations and other miscellaneous items

is obtainable from your records. For the other receipts there is no alternative at present but to accept the figures given by the Collector and the Board of Revenue, and the returns should be prepared accordingly.

13. But the figures should not be accepted implicitly. They should be sifted in such a manner as the Chief Engineer for Irrigation may think best. One way in which this can be done is by the area of land irrigated during the year. That area ought to be known.

The area so served multiplied by what would be a fair charge for water rates would indicate what the direct revenue from the canal (if the charge for water was a distinct one) would be. A fair rate for water may perhaps be determined by what is levied on Zemindari lands in the Godavery District, but in preparing this portion of the account you will doubtless obtain valuable assistance from the Chief Engineer for Irrigation as its main object is to illustrate the value of the operations

directed by that Officer. And if the results thus produced differ considerably from the amounts reported by the Collectors as the revenue to be credited to irrigation works, the cause of the difference, if appreciably large, may well be enquired into. It does not follow that the difference is necessarily an error; for it may be due to several causes. But the cause should form the subject of discussion and enquiry. The submission of the returns should however on no account be delayed for the result of the discussion. That is a matter for detailed correspondence

and pending which the 8.9 returns should not be held back.

14. I notice that in the orders of the Government of Madras on the preparation of these accounts the expenditure on new works and repairs is to be ascertained since 1856-57 only. "That being the date of "the transfer of the Executive "of public works to the "Departmental Department." But if the records of the outlay previous to 1856-57 are available, I do not see any reason why the outlay recorded in them should not be ascertained and classified

The Local Accountant General should be asked to admit of access to these records, as it is very probable that they are in his office.

15 However this may be, it is necessary that immediate steps should be taken by pu to classify the expenditure on Irrigation works from such date as the records can be found by Profits and heads of service. This should be done in the form and under the heads given in the "detail of Expenditure on Agricultural works from 1862-63 to 1870-71." as the Amounts when arranged in that form according to any new sub-divisions or heads which the result of the enquiries instituted by the Local Government for making up Capital accounts may necessitate. It is observed that the process of arriving at the amounts is left by the orders of the Government of Madras to be determined after the sub division of the several irrigation works into groups has been made, but the primary classification of the outlay need not be delayed for want of this information. It should be entered upon at once,

and I look to you to see that
this is done without delay.
In this view I request that
you will make immediate
arrangements for setting
an experienced Accountant
to work with such
additional Establishment
as may be necessary to get
at the Papers. This should
be done under your own
personal supervision, and
the first steps necessary for
the purpose, in addition
to obtaining from the Local
Accountant General such
accounts as may be in his
possession, is to ask Superin-
tending Engineers for any
papers that may be in their
offices bearing on the subject,
and the sanction of the
Chief Engineer should be
obtained to a search being
made amongst his records
for annual progress reports
and other documents of a
similar nature which
may be of use to you in
the elaboration of the
outlay.

6. It is admitted that
this duty will render
necessary an additional
temporary establishment.
such an establishment
should not cost more than
Rs 300 or 400 per mensem.

and I would therefore advise you to apply to the Government of Madras for the entertainment of Competent Accountants and clerks for a period of six months. At the head of the Establishment to entertained should be placed an experienced Accountant of your Office; who would be able to determine by a reference to the irrigation map of the Madras Presidency to what project or under what head the outlay on any particular work should be claimed. And to the work of this Establishment your Continual and personal attention should be devoted, the matter being important, and the orders of the Government of India as well as those of the Secretary of State rendering it absolutely necessary that the most accurate information on the subject that is available should be obtained.

4. In the preparation of the returns prescribed in my letter No 1732 of 24 September 1872 the opportunity should be taken to recast the "Abstract of financial "results of Irrigation works "under the Government of "Madras." This should be done in the following form-

18. To summarise what is required is as follows.

I Preparation and submission of the Capital and Revenue accounts for 1871-72. and up to end of 1871-72. for the 30 works entered on the Abstract of financial results and for such other works on which loan funds have been expended.

These accounts are urgently required and must be submitted by the 15 January next.

II. Revision of the abstract of financial results according to the forms given above.

The revised return

Advances outstanding			Recoveries												Balances		Charge for salaries	Expenses connected with collection of revenue and charges for interest		Close of year ending
During year	Remained at year's end		During year												Principal	Interest		Principal	Interest	
			Principal									Interest								
			Grants	Loans repayable by instalments	Loans repayable at once	Proceeds of sales of land	Rents	Miscellaneous receipts	Total	Grants	Loans	Rents	Miscellaneous receipts	Total						

Ordinary annual subventions 1871-72 1870-71 1869-70 as on close of year 1870-71

Extra Ancillary Capital (as above)

Permanent Annual Charges (as above)

must be submitted with or immediately after the returns mentioned in clause I

III. Preparation of returns showing the outlay on Irrigation works under Government of Madras from the earliest period for which records are available.

These Returns are required to be prepared in somewhat the same form and under the same head as the detail of Expenditure on Agricultural works from 1862. 63. to 1870. 71, and the sanction of the Government of Madras is to be obtained to the establishment of an additional establishment for the purpose This establishment if necessary may be employed in the completion of Returns Nos I & II.

19. It is hardly necessary for me to give detailed instructions as to the manner in which account No III should be prepared. But I may remark that it would be desirable in order to avoid error that in classifying the outlay the account of each year should be ascertained. and it would be desirable that this labour should be kept from time to time informed of the progress.

made in drawing this -

2. To avoid extra work the opportunity should be taken in the preparation of Statement No III to get out the figures required by the Secretary of State in his Despatch No 75 dated 21 August 1869.

4. In conclusion, I have to explain that there is not some omission in the orders issued by the Government of Madras in para 12 of their resolution No 1102. of 30 April 1872 for determining the amounts of Land Revenue irrigated -

I have &c.,

(Signed) P. O'Connell Lt Col Dy.
Offg. Accountant General

Submitted

Dated Ootacamund 10th

Group

Subject: 2. Irrigation Statement 1. Application.

From Acct Genl P. Lr No 1732 dt 24th Sept 1872. To do No 1515 dt 7 Oct 1872. To Ag Chief Engr for Irrigation No 1521 dt 8 Oct 1872.

Submitted for the information of Government, with reference to the Correspondence as per margin which was laid before His Excellency in Council this day the Chief Engineer for Irrigation.

2. The Returns in connection with Irrigation Works which the Accountant General of the Public Works Department requires this Office to furnish are the following

(1) Capital and Revenue Accounts up to 31st March 1871, and for 1871/72 (in the forms at pages 13 to 17 of the Series of Accounts accompanying the Government of India's Circular No 80, dated 29 December 1871) for the thirty works entered in the Abstract of Financial Results for 1870/71 and for such other Works as may have had loan funds expended upon them.

Revised

II. Revised Abstract of financial results up to 1871/72, according to form given in present letter.

III. Returns showing the outlay, duly classified by projects and heads of Service, on irrigation works under the Government of Madras from the earliest period for which records are available. These to be prepared in the form and under the heads given in the accompanying printed Statement.

3. I will at once apply to the Accountant General of Madras and the several District Engineers for any records which they may have in connection with past Irrigation Expenditure, and will have my own records examined for the purpose of tracing Accounts and Papers which may be of use in the Compilation of the required Returns. It is however simply impossible for my Establishment to undertake the heavy additional work which the preparation of these Returns will entail. The details required for Statements I and II above are

are doubtless forthcoming, and may be so worked up as to furnish the information required, but as regards No 3, its preparation will probably be found impracticable in any form, certainly so in detail. Every effort will however be made to comply with the call, and my object in now addressing Government is to solicit in pursuance of the Accountant Generals instructions, that early sanction may be accorded to the entertainment of the following extra Establishment for a period of six months:

			Rs
2.	Accountants	@ 80	160
1.	do		60
1.	do		50
2.	do	@ 40	80
		Total per Mensem	350

A.1/3.12

4. At the head of this large Establishment, with its ordinary onerous duties, and with 69 Public Works and upwards of 90 Civil Officers in

II. Revised Abstract of financial results up to 1871/72, according to form given in present letter.

III. Returns showing the outlay, duly classified by projects and heads of Service, on irrigation works under the Government of Madras from the earliest period for which records are available. These to be prepared in the form and under the heads given in the accompanying printed Statement.

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A.1/3.12

4. At the head of this large Establishment, with its ordinary onerous duties, and with 69 Public Works and upwards of 90 Civil Officers in

in account with me, it is absolutely impracticable for me to devote that continued close personal supervision which is necessary to secure the greatest possible accuracy in the compilation of the Returns called for, and as there are only five members my Establishment drawing pay more than Rupees 150 (one at the head of the Audit, and the other at the head of the Bank Branch), neither of whom can be detached to other duty, even temporarily, I am really unable to provide the "experienced" Accountant, possessing the high qualifications mentioned in para 16 of the Accountant General's letter.

Upon this point, I beg especially and prominently to bring to the notice of Government that so long ago as the 6th August 1868, the Government of India, considering it essential to appoint a separate Officer for the Irrigation Branch of the larger "Provinces", without, by that measure

N. 571. A

measure, neglecting the inspection of Range Officers' Accounts, requested this Government to apply for such additional aid as might be necessary. At that time, however, the new Forms of Capital and Revenue Accounts had not been received, and the Madras Government accordingly intimated to the Government of India that there was no "present" necessity for an Extra Officer for the immediate charge of the Irrigation Branch of the Controller's Office, but that as soon as the new Systems of Irrigation Accounts was brought into operation the appointment of an Extra Officer would be "absolutely necessary". On the receipt of the forms above mentioned, I applied at once to Government that effect might be given to the proposed arrangement, but a reference to the concluding

para

in spare of the order of the 30 April
in last, No. 1102, will show that
c until the Registers of Irrigation
wo Works had been compiled by
of the local Officers, and the grouping
co of the works in the Districts had
ar been carried out, the Government
m considered that this Department
th would not have a data on which
of to work, and determined
de that, under these circumstances,
of the Services of an Additional
d Officer in the Account Branch
u were not then required. The
A present demand however completely
p alters the state of the case, and
of as the preparation of the Statements
h called for will require the undivided
p attention of an Officer whose duty
of it will be to direct, under proper
a general instructions, the labors
of the petro Establishment for
which sanction has been solicited,
and, by personal communication
with the Chief Engineer for Irrigation
to clear up all doubtful points,
I have, in my application, made
provision for an Assistant Controller
and respectfully beg that, with a
view of economizing expenditure,
and ensuring expedition in the
compilation of the Returns under
notice, an Officer may be appointed
to the post as early as possible.

S. Hood

Controller of P.W. Accounts.

Office of the Controller
of P. W. Accounts
Fort St. George
11th December 1872

The Secretary to Government
Public Works Department
Fort St. George

Rw 8" September /68 Dr 165 C 168
" 30" April /72 — 450 455

P. W. 1872 Department
Proceedings for January
No. 6180

No.
From
The Controller of
P. W. Accounts
To The Secretary to Govt
P. W. Department.

Dated 11th
Recd 12th } December /72

No 2130

Enclosures 2

Submitting letter from
Public Works Accountant
General calling for
certain Irrigation Accounts
and applying for an
Additional Office for
the charge of the Irrigation
Branch of this Office
and for an Extra Office
Establishment —

No 134-135. 15th Jany /73.

No 265

P. W. 8/19

No 134

109

Proceedings of the Madras Government
1173
Under date the Decr /72.

Read the following

From the Controller
of P. W. Accounts { No. 711 Decr /72
No. 2130

To
The Controller
of Public Works Accounts,

In submitting for orders
the above letter from the
Accountant General
Public Works Department,
applies for the sanction
of the Establishment
required to prepare the
Statements of Irrigation
works required by the
Government

Government of India, and at the same time renews his application for the appointment of an Assistant Controller to take charge of this branch of the Public Works Accounts.

2 There can be no doubt as to the large extent of extra work which the preparation of the Irrigation accounts and Statements will entail, and as their value will depend entirely upon their accuracy and completeness, the Government resolve ~~to transmit with the Controller's application to the Govt. of India for sanction~~ authorize the entertainment of the temporary establishment proposed by the Controller, and the appointment of an Assistant Controller, in anticipation of the sanction

Ordered that the

Vb

To the Controller
Chief Engr. for Irr.

Dept. 7/1/12. No. 135-

following letter be sent

H.E. No 7 111

To

The Secretary to the
Government of India.

Sir,

I am directed to transmit for the sanction of the Governor General in Council an application, in the prescribed form, for the establishment deemed necessary to enable the Controller of Public Works Accounts in this Presidency to carry out the orders of the Government of India relative to the

the Accounts of Irrigation Works.

2 I am to mention that His Government have been desirous of postponing as long as possible the appointment of an additional Officer to the Controller's Office, but it is apparent that any further delay would be likely to retard the preparation of the desired returns, while the collection of complete and accurate information is of so much importance, if these accounts are to be of any real value, that it will be better to strengthen the Controller's hands at once, by placing at his disposal an Assistant for this special purpose.

It will be observed that the present Application for Office establishment is for a period of 6 months only. By the end of that time the Controller will be better able to judge what the real requirements of the Irrigation Accounts branch may be, and of further application can then be made.

I am to add that, as the necessity for the additional establishments referred to in this letter has been generally recognized by the Government of India, the Right Hon'ble the Sec'y of State has authorized their entertainment in anticipation of formal sanction

Yours &c.

Desp. 17/1/73 Letter
Govt. Madras Offg. 13/2/1873

3-11-86

11½

Govt. of {1873} Madras.

PUBLIC WORKS.

To The Controller of
Pr Accounts
&
To The Secretary to the
Govt of India

Dated

Recd. Encl. 2

G. O. 15th Augt 1873 No 134-135.

Nos. 265-266 & 267

Temporary Establish.

Forwards an applica-
tion from the
Pr. Accr.
Establishment &c.
the preparation of
Statements & for the
appointment of an Assis-
Controller and intimates
that their es-
tablishment has been au-
thorized in anticipation of
Sanction.

Temporary Establish-
ment. Passing orders
on the application from
the Controller of Pr.
Accts. for temporary
establishment for the
preparation of Statements
of Irrigation Works
& the appointment
of Assistant Controller