GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

Read—the following papers :—

From Captain C. C. RAWSON, R.E., Executive Engineer, in charge I Circle, to the Chief Engineer for Irrigation, dated Dowlaishweram, 20th April 1884, No. 248 G.D.

With reference to memorandum, No. $\frac{I}{99}$ G.D., dated 4th October 1882, I have the honor to furnish a statement showing the names and cost of distributary works required to irrigate lands on both sides of the Kovur-Manjair canal.

2. In No. 1278 G.D., dated 29th August 1882, it was stated that the amount required to cover the cost of these distributary works which should be paid from irrigation funds was Rs. 12,540 as shown in the original estimate on the statement sent herewith.

3. In the revised estimate now submitted the cost of the distributary works amounts to Rs. 20,124, but I think that only those items shown in red ink should be charged to the delta project; their cost is Rs. 16,360, *i.e.* :—

	Rs.
4 New sluices	3,040
13½ Miles channel	9,720
Compensation for land	3,600

4. The works shown in black ink in the revised list of distributary works only irrigate land formerly supplied with water from the Cocanada canal and its branches.

5. With reference to paragraph 2 of the memorandum under reference, no contribution has been paid from Irrigation funds, and the amount to be sanctioned from unforeseen works in the Godávari delta revised estimate is Rs. 16,360 as stated above.

6. With reference to paragraph 3 of the memorandum, I herewith submit the revised estimate * for the Kovur-Manjair canal, amounting to Rs. 1,63,510, showing a saving of Rs. 25,940 on the estimate sanctioned in G.O., No. 2776, dated 17th October 1876.

* Will follow.

7. As directed in G.O., No. 161 I., dated 17th February 1883, the lock into the Cholangi creek has been omitted, also the aqueduct over the same, and the item for widening and deepening the Cholangi river.

8. A drain for diverting the drainage has been allowed for in lieu of the aqueduct.

9. The whole of the plans and estimates now sent were examined and approved of by Mr. Walch the late Superintending Engineer before he went on leave, but he had not time to send them up.

10. It is requested that the revised estimate may receive early sanction, as there is an allotment of Rs. 17,500 for the work in the current official year, and there will be a difficulty in spending this if sanction be not granted soon.

11. The revised estimate allows for a short branch canal to the salt platform; this was provided at the request of the Salt Department.

No. 115 I.

Note by the Chief Engineer for Irrigation.

The Kovur-Manjair junction canal was, with the approval of the Collector of the Godávari district and the Board of Revenue, undertaken to establish water communication between the Penungiduru salt-pans and the Cocanada canal, and to unite the

Cocanada and Coringa canals. Estimates, amounting to Rs. 1,89,450, which provided for aqueducts over the Bhavaram drain, the Cholangi river, the Tooliabhaga, and the Coorada drains, and also for a lock into the Cholangi river in order that boats might convey salt from the platforms directly into the interior, were sanctioned for the canal in G.O., No. 2776, dated 17th October 1876. The officers then in charge of the Salt Department were of opinion that the canal was necessary, in the interests of salt manufacture, to avoid the difficulty of navigating the Cholangi river. The total cost of the canal, including establishment and tools and plant charges, was to be met from the following funds as stated in Proceedings of Madras Government, No. 2150 W., dated 18th December 1877 :—

—	Works.	Establishment.	Tools and plant.	Total.
	RS.	RS	RS.	RS.
Salt Department	78,260	19,570	6,260	1,04,090
Local funds	30,000	7,500	2,400	39,900
Canal and Ferry funds ...	67,330	16,830	5,390	89,550
Irrigation funds	13,860	3,460	1,110	18,430
Total ...	1,89,450	47,360	15,160	2,51,970

2. The canal was excavated as far as the Cholangi river and opened to traffic; but when the lock into the river and the aqueduct over it were about to be commenced, the Commissioner of Salt Revenue apparently learned for the first time what was in contemplation, and wrote pointing out that if the works were carried out the salt factory would be ruined. The Superintending Engineer, I Circle, on a reference made to him on the subject by this office, reported that the injury complained of would not be as great as was represented; but the Commissioner of Salt Revenue did not alter his opinion. This department has no objection to stop the works and to divert the drainage, but it is noticed that this sudden change of views has resulted in a waste of time and money. The Superintending Engineer was, in G.O., No. 161 I., dated 17th February 1883, directed to stop the works and estimate the cost of diverting the drainage. The Executive Engineer, in charge of I Circle, has submitted, with his letter, No. 248 G.D., dated 20th April 1884, revised estimates for the canal, amounting to Rs. 1,63,510, or Rs. 25,940 less than the sanctioned estimates. The amount provided for distributaries required for irrigation in the revised estimates is Rs. 20,124, against Rs. 12,540 included in the sanctioned estimates as shown below :—

	Sanctioned estimate.	Revised estimate.
	RS.	RS.
B. Land	1,860	3,600
C. Works	4,560	5,094
L. Earthwork...	6,120	11,430
Total ...	12,540	20,124

The total area to be irrigated is 9,750 acres, of which 2,650 acres were formerly irrigated under the Cocanada and Coringa canals. The additional area to be brought under irrigation is therefore only 7,100 acres. The estimated cost of works required to bring this area under irrigation is 16,360, as shown below :—

	RS.
B. Land	3,600
C. Works—	
4 Irrigation sluices at Rs. 760 each...	3,040
L. Earthwork—	
13½ miles of minor channels	9,720
Total ...	16,360

This amount may be taken as the share chargeable to the Godávari delta. Under paragraph 1643 of the Public Works Code, all contributions from one fund to another should be adjusted in the civil accounts; but as the capital account of the delta should

include all expenditure incurred on the delta works, it is recommended that the estimates for the distributary works, required for extension of irrigation, may be sanctioned from the balance of the lump sum provided for unforeseen works in the completion estimates of the delta. Deducting the amount to be separately sanctioned, the revised estimates for the canal amount to Rs. 1,47,150, and compare with the sanctioned estimates as shown below :—

	Original estimate.	Revised estimate.
	RS.	RS.
I Works.		
1. (2) B. Land compensation	8,280	8,280
2. „ G. Kattipalli road bridge	8,880	7,779
3. „ Five cattle crossings	550	550
4. „ J. Cholangi river head lock	21,600	...
5. „ L. Kovur-Manjair canal excavation	45,590	52,345
6. „ Cholangi river, widening and deepening ...	19,720	...
7. (3) B. Land compensation	1,860	...
8. „ C. Sluices	4,560	2,054
9. „ L. Minor channels	6,120	1,710
10. (4) B. Land compensation	...	2,775
11. „ C. Aqueduct over Bhavaram drain	11,920	5,840
12. „ „ Do. over Tooliabhaga drain	28,140	40,000
13. „ „ Do. over Coorada drain	14,340	10,171
14. „ „ Do. over Cholangi drain	17,890	76
15. „ L. Drain from culvert in Korapa road to Tooliabhaga drain...	...	2,205
16. „ „ Tooliabhaga new cut	...	9,200
17. „ „ Branch channel to salt-pans near Kattipalli road	...	2,540
Total ...	1,89,450	1,45,525
Deduct amount proposed to be charged to Irrigation ...	13,860	
	1,75,590	
Tools and Plant.		
18. Ferry boat		275
19. Five ferry boats		1,350
Total		1,625
Total ...	1,75,590	1,47,150

The canal, item 5, has been excavated up to the Cholangi river; K. Kottapalli road bridge, item 2, the Bhavaram and the Coorada aqueducts, items 11 and 13, have been built. Items 15 and 16 have been provided for in lieu of item 14, and items 4 and 6 are not required. The excess on item 12, which is mainly due to the enlargement of the aqueduct to enable it to pass the drainage diverted from the Cholangi creek, is nearly covered by the savings effected on items 11 and 13. The branch channel, item 17, has been provided for at the request of the Salt Department. Including the share of establishment and tools and plant charges, the revised estimates for the canal amount to Rs. 1,82,074, as shown below :—

—	Outlay to end of 1883-84.	Further Outlay.	Total.
	RS.	RS.	RS.
Works.	76,012	58,458	1,34,470
Land compensation	2,666	8,389	11,055
Total ...	78,678	66,847	1,45,525
Establishment charges ...	18,979	13,445	32,424
Tools and plant do. ...	1,623	2,502	4,125
Total ...	99,280	82,794	1,82,074

The amounts of further outlay under establishment and tools and plant have been estimated at 23 and 1½ per cent., respectively, on the estimate of expenditure on works, excluding land compensation. The cost of ferry boats required is also included in the estimate of tools and plant charges. The canal may be treated as primarily belonging to the canal and ferry funds, to which the expenditure already incurred was debited, the salt and local funds contributing towards the expenditure to the extent to which they are interested. Deducting Rs. 43,925, the saving effected under "works" by the revised arrangements from the portion chargeable to salt funds, the distribution of the amount of revised estimates among the several funds interested will be as shown below:—

—	Works.	Establishment.	Tools and plant.	Total.
	Rs.	Rs.	Rs.	Rs.
Salt	48,195	11,085	720	60,000
Local funds	30,000	6,900	450	37,350
Canal and Ferry funds	67,330	14,439	2,955	84,724
Total ...	1,45,525	32,424	4,125	1,82,074

Ootacamund,
13th June 1884.

(Signed) J. O. HASTED, Colonel, R.E.,
Chief Engineer for Irrigation.

To the Joint Secretary to Government,
Public Works Department, Irrigation Branch.

Order—dated 1st July 1884, No. 621 I., Public Works.

The proposal of the Chief Engineer for Irrigation to sanction estimates for distributary works on the Kovur-Manjair canal separately from the balance of the lump sum provided for unforeseen works in the Godávari completion estimates is approved, and the Superintending Engineer, I Circle, will submit estimates for the works for the sanction of Government. The revised estimates, amounting to Rs. 1,45,525, or Rs. 1,82,074, including establishment and tools and plant for the remaining works on the canal, are approved. The canal will be treated in the Public Works Department as primarily belonging to the canal and ferry funds, and the works will be sanctioned for execution when the question of contributions from the salt and local funds is decided in the Revenue and Financial Departments.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, I Circle.
„ Chief Engineer for Irrigation.
„ Examiner, Public Works Accounts.
„ Revenue Department.
„ Financial „

Exd A. Aubert.
Spare Copies

IRRIGATION.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated July, 1*st.*

Recd. *Encl.*

G.O., 1st July 1884, No. 621 I.

JULY.

Kovur-Manjair Canal

The proposal to sanction estimates for distributary works on the — separately from the balance of the lump sum provision for unforeseen works in the Godávari completion estimates, and the revised estimates of Rs. 1,45,525 for the remaining works on the canal, approved with remarks.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers :—

Proceedings of Madras Government, Public Works Dept., dated 1st July 1884, No. 621 I.
„ „ „ Financial Department, „ 6th March 1885, „ 473.

Order—dated 30th March 1885, No. 336 I., Public Works.

The revised estimates, amounting to Rs. 1,45,525 or Rs. 1,82,074 including establishment and tools and plant charges for the Kovur-Munjair canal, approved of in proceedings of Madras Government, No. 621 I., dated 1st July 1884, are sanctioned and the works will be resumed at once. The expenditure on the canal will, pending settlement of the contributions from salt and local funds, continue to be debited to canal and ferry funds.

2. This sanction has been registered as No. 248 I. of 1884-85.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Superintending Engineer, I Circle.
„ Chief Engineer for Irrigation.
„ Examiner, Public Works Accounts.
„ Revenue Department.

Exd. A. Grubert.
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IRRIGATION.
ACCOUNT.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated March, 30th.

Recd. *Encl.*

G.O., 30th March 1885, No. 336 I.

MARCH.

Kovur-Munjair Canal

Revised estimate for the —, sanctioned.

23RD MARCH 1887, No. 881 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from R. G. MACDONALD, Esq., Officiating Under Secretary to the Government of India, Public Works Department (Account—General), to the Secretary to the Government of Madras, Public Works Department, dated Fort William, 12th March 1887, No. 47 A.G. :—

In reply to your endorsement, No. 269 W., of the 3rd ultimo, I am directed to state that the Government of India approves of your recommendation to revert to the former rate of $1\frac{1}{2}$ per cent., in calculating the percentage chargeable to other funds for use of Provincial tools and plant.

ORDER—dated 23rd March 1887, No. 881 W., Public Works.

Communicated to officers of the Public Works Department, for information and guidance.

2. The reversion to the former rate of $1\frac{1}{2}$ per cent., approved of by the Government of India, will have effect from 1st April 1887.

3. The Secretary to the Code Committee will frame the necessary standing order modifying the rules on the subject in the Madras Public Works Code.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
„ Chief Engineer for Irrigation.
„ Examiner, Public Works Accounts.
„ Financial Department.
„ Revenue do.
„ Military do.

Exd. E. Fernandez.
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GENERAL.
ACCOUNT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated March, 23rd.

Recd. *Encl.*

G.O., 23rd Mar. 1887, No. 881 W.

MARCH.

Tools and Plant

The sanction of the Government of India to the proposal to revert to the $1\frac{1}{2}$ per cent. rate of contribution by funds other than Provincial on account of —, communicated to officers of the department.

15TH JUNE 1887, No. 1615 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from A. S. RUSSELL, Esq., Executive Engineer, Tinnevelly division, to the Examiner, Public Works Accounts, dated Palamcottah, 28th May 1887, No. 646:—

As laid down in G. O., No. 881 W., dated 23rd March 1887, the percentage charges for tools and plant are to be calculated from 1st April 1887 at $1\frac{1}{2}$ per cent. of outlay on contribution works, whereas the amount of contribution already collected was calculated at 1 per cent. I have therefore the honor to request you will be good enough to advise me how the percentages are to be calculated for the incomplete and uncommenced works of the last year, for which contributions, either in part or in full, have already been collected.

No. 91 S.E. 6.

Forwarded, in original, to the Secretary to Government, Public Works Department, for favor of orders and return. It is presumed that the order in question was not intended to affect engagements already made with private contributors.

(Signed) C. H. P. CHRISTIE, Major, R.E.,
Examiner, Public Works Accounts.

8th June 1887.

ORDER—dated 15th June 1887, No. 1615 W., Public Works.

It was not the intention of Government, when deciding that the increased rate of $1\frac{1}{2}$ per cent. for tools and plant should be charged with effect from 1st April 1887, that engagements already made with private contributors should be affected by the revised orders on the subject.

2. These proceedings will be communicated to officers concerned, in continuation of G.O., No. 881 W., dated 23rd March 1887.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Chief Engineer for Irrigation.
" Examiner, Public Works Accounts.
" Financial Department.
" Revenue "
" Military "

Exd. E. Fernandez.

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GENERAL.
ACCOUNT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated June, 15th.

Recd. *Encl.*

G.O., 15th June 1887, No. 1615 W.

JUNE.

Tools and Plant

Stating that the orders fixing the rate of contribution payable by funds other than Provincial on account of — after 1st April 1887 at $1\frac{1}{2}$ per cent. were not intended to affect engagements already made with private contributors.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from Colonel W. S. TREVOR, R.E., Secretary to the Government of India, Public Works Department (Account—General), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 17th September 1884, No. 227 A.G. :—

I am directed to acknowledge the receipt of your letter, No. 2008 W., of the 15th ultimo, regarding the apportionment of the charges for Tools and Plant between Provincial and other funds, and to state that the Government of India has been pleased to decide that, as a tentative measure for the current official year and until further orders, the contributions from other funds on this account should be calculated at 1 per cent. on the total outlay on works and repairs executed by Provincial establishment. The question should be reconsidered and reported on after the accounts for 1884-85 have been finally closed.

ORDER—dated 10th October 1884, No. 2508 W., Public Works.

In the letter above read, the Government of India have sanctioned, as a tentative measure, the contributions from other funds on account of Provincial Tools and Plant being calculated at 1 per cent. from the commencement of the current official year. As the budget estimates for 1884-85 have been drawn up at the higher rate of $1\frac{1}{2}$ per cent., the necessary alterations are now made.

2. The budget estimate of the cost of tools and plant, required for the current official year, is Rs. 98,156 ; and the contributions, at the reduced percentage now fixed, would amount to Rs. 20,300. Provincial funds will, therefore, have to bear a sum of Rs. 77,856, instead of Rs. 70,837 provided in the budget. The difference, Rs. 7,019, will be met from the Provincial reserve with Government.

3. The contributions will now stand as below :—

		RS.
Estimate		98,156
Contributions from Imperial Military works, at 1 per cent. on existing grant	4,730	
Contributions from Imperial Other Services, at 1 per cent. on existing grant	1,050	
Contributions from Imperial Irrigation and Navigation and Agricultural Works, at 1 per cent. on existing grant.	14,040	
Contributions from Incorporated Local Funds, at 1 per cent. on existing grant	350	
Contributions from Excluded Local Funds, at 1 per cent. on existing grant	130	
		20,300
Balance to be provided from Provincial ...		77,856

4. The budget provision of Rs. 7,000 under Imperial Military has been reduced to Rs. 4,730. The difference will be added to the reserve under Original Works, under which head funds are required.

7000
4730
2270

5. The provision in the Imperial Other Services budget for tools and plant, Rs. 1,700, has since been reduced to Rs. 1,558. As the contributions now amount to Rs. 1,050 only, the difference, Rs. 508, will be surrendered to the Government of India.

6. The provision of Rs. 497, made in the Incorporated Local Fund Budget, has been since increased to Rs. 527. The difference, Rs. 177, between this figure and the amount of contributions now arrived at, will be placed at the disposal of the Financial Department.

7. The existing provision for tools and plant under Excluded Local is Rs. 207, which has now been reduced to Rs. 130. The difference, Rs. 77, will also be placed at the disposal of the Financial Department.

8. Ordered that a copy of these Proceedings be forwarded to the Government of India.

(Here enter No. 2509 W., dated 10th October 1884.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Chief Engineer for Irrigation.
" Financial, &c., Departments.
" Revenue Department.
" Examiner, Public Works Accounts.
" Military Department.

ENDORSEMENT—dated 10th October 1884, No. 2509 W., Public Works.

Forwarded.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

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ACCOUNT.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated October, 10th.

Recd. *Encl.*

G.O., 10th Oct. 1884, No. 2509 W.

OCTOBER.

Tools and Plant

Forwarding copy of orders on letter from the Government of India sanctioning reduction of the percentage charged to funds other than Provincial on account of —.

22ND FEBRUARY 1887, No. 514 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following letter from Major A. C. SMITH, R.E., Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 8th February 1887, No. 623 M.D. :—

I have the honor to request that Rs. 38,231 may be withdrawn from the current year's grant of Rs. 65,374 sanctioned in G.O., No. 31 W., of the 7th January 1887, under Local—Incorporated, for construction of a bridge over the Vaigai river at Madura.

2. Up to end of January 1887 Rs. 11,142-13-6 only have been spent, and the Executive Engineer does not expect more than an outlay of Rs. 16,000 during February and March owing to the late commencement of the work and unsettled state of contractors, &c.

ORDER—dated 22nd February 1887, No. 514 W., Public Works.

The sum of Rs. 38,231, or Rs. 47,406 including the charge for establishment and tools and plant, surrendered by the Superintending Engineer, VI Circle, from the current year's grant for the construction of a bridge over the Vaigai river at Madura, is resumed and replaced at the disposal of the "Local and Municipal Department."

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, VI Circle.
" Examiner, Public Works Accounts.
" Local and Municipal Department.

Exd. P. L. Pereira.
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PUBLIC WORKS.

Dated February, 22nd.

Recd. *Encl.*

G.O., 22nd Feb. 1887, No. 514 W.

FEBRUARY.

Vaigai Bridge

Surrender of Rs. 38,231 from current year's grant for the —, Madura, resumed and replaced at the disposal of the "Local and Municipal Department."

PRELIMINARY ISSUE.

INCORPORATED LOCAL FUNDS.
PUBLIC WORKS BUDGET ESTIMATE.

MADRAS.

PUBLIC WORKS DEPARTMENT.

INCORPORATED LOCAL FUNDS BUDGET ESTIMATE

OF THE

PUBLIC WORKS DEPARTMENT

OF THE

GOVERNMENT OF MADRAS,

FOR THE YEAR

1887-88.

CHEPÂK,
8th January 1887.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF INCORPORATED LOCAL FUNDS PUBLIC WORKS REVENUE IN THE MADRAS PRESIDENCY FOR THE YEAR 1887-88.

Budget Estimate of the Revenue that will be realized by, and on account of Incorporated Local Funds of, the Public Works Department for the year from 1st April 1887 to March 1888.

—		Budget Estimate, 1887-88.	Budget Estimate, 1886-87.	Actuals, 1885-86.
		Rs.	Rs.	Rs.
Realized in Public Works Department		6,000	6,000	3,862
	Total ...	6,000	6,000	3,862

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF EXPENDITURE FROM INCORPORATED LOCAL FUNDS ON PUBLIC WORKS IN THE MADRAS PRESIDENCY FOR THE YEAR 1887-88.

Abstract of the Estimated Charges from Incorporated Local Funds on Public Works in the Madras Presidency from 1st April 1887 to March 1888.

—	BUDGET ESTIMATE, 1887-88.	BUDGET ESTIMATE, 1886-87.	ACTUALS, 1885-86.
	Rs.	Rs.	Rs.
ORIGINAL WORKS.			
Civil Buildings	...	...	...
Communications	1,25,760	20,460	**— 3,516**
Miscellaneous Public Improvements	...	...	2,474
Total ...	1,25,760	20,460	**— 1,042**
REPAIRS.			
Civil Buildings	...	...	...
Communications	24,858	20,850	20,039
Miscellaneous Public Improvements	...	...	499
Total ...	24,858	20,850	20,538
TOTAL, WORKS AND REPAIRS.			
Civil Buildings	...	...	...
Communications	1,50,618	41,310	16,523
Miscellaneous Public Improvements	...	...	2,973
Total ...	1,50,618	41,310	19,496
Establishment	46,337	27,450	18,673
Tools and Plant	2,845	61,240	**— 154**
Grand Total ...	1,99,800	1,30,000	38,015

GOVERNMENT OF MADRAS.

ABSTRACT OF GRANTS ASSIGNED BY FUNDS.

—	FUNDS TO WHICH GRANTS FOR 1887-88 ARE CHARGEABLE.					REVISED ESTIMATE, 1886-87.
	Local Funds under Act V of 1884.	Police Lodging Fund.	Canal and Ferry Fund.	Jungle Conservancy Fund.	Total, 1887-88.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
ORIGINAL WORKS.						
Civil Buildings	...	...	...	...	...	...
Communications	1,21,760	...	4,000	...	1,25,760	90,942
Miscellaneous Public Improvements ...	...	...	...	...	...	...
Total ...	1,21,760	...	4,000	...	1,25,760	90,942
REPAIRS.						
Civil Buildings	...	...	...	...	...	...
Communications	20,818	...	4,040	...	24,858	22,201
Miscellaneous Public Improvements ...	...	...	...	...	...	970
Total ...	20,818	...	4,040	...	24,858	23,171
Total, Works and Repairs ...	1,42,578	...	8,040	...	1,50,618	1,14,113
Establishment	44,488	...	1,849	...	46,337	42,639
Tools and Plant	1,265	...	1,580	...	2,845	60,599
Grand Total ...	1,88,331	...	11,469	...	1,99,800	2,17,351

GOVERNMENT OF MADRAS.

LIST OF ORIGINAL WORKS PROPOSED TO BE CARRIED OUT BY THE PUBLIC WORKS DEPARTMENT DURING 1887-88.

Funds.	Executive Division.	Locality.	Item No.	Name of Work.	Amount of Estimate.	Outlay. Actual to end of 1885-86.	Outlay. Probable during 1886-87.	Grant, 1887-88. Amount.	Grant, 1887-88. Total.	Item No.	Remarks and References.
					Rs.	Rs.	Rs.	Rs.	Rs.		
				Communications.							
				Original Works.							
Canal and Ferry Fund.	Godávari, Eastern.	.....	1	Kovur-Manjer junction canal	1,45,525	1,29,022	17,663	4,000	...	1	G.O., No. 336 I., dated 30th March 1885.
									4,000.		
Act V of 1884.	Madura ...	Madura ...	2	Construction of a bridge over the Vaigai river.	2,46,600	...	65,374	1,20,000	...	2	G.O., No. 3584, dated 9th February 1886.
	Tanjore ...	Shiyáli ...	3	Forming a new road around Elathur in lieu of eroded portion of road No. 70.	1,760	...	...	1,760	...	3	Board's Proceedings, No. 6480, dated 10th November 1882.
									1,21,760		
				Total ...	...	...	...	...	1,25,760		

GOVERNMENT OF MADRAS.

LIST OF REPAIRS PROPOSED TO BE CARRIED OUT BY THE PUBLIC WORKS DEPARTMENT DURING 1887-88.

Executive Division.	Locality.	Item No.	Name of Work.	Grant, 1887-88.	Total.	Remarks.
			Canal and Ferry Fund.	Rs.	Rs.	
			Navigable Canals.			
Godávari, Eastern.	.....	1	Kovur-Manjer junction canal, maintenance and repairs of the completed portion.	4,000	4,000	
			Communications.			
Kistna, Eastern.	Bezváda ...	2	Maintenance of ferry road ...	40	40	
					4,040	
			Local Funds under Act V of 1884.			
Kistna, Western.	Nizampatam canal.	3	Maintenance of canal left bank between Nandivelugu and Kuchipudi.	350		
	Kistna right bank.	4	Maintenance of Kistna right bank between Pennumudi and Kollur.	650		
Nellore ...	Nellore ...	5	Gravelling the Pennér anicut roadway.	600		
South Arcot ...	Chidambaram taluk.	6	Repairing a portion of road from Shatiatope to Omampulayoor passing over the Veeranam tank-bund, 9 miles, at Rs. 100 per mile.	900		
Do. ...	Do. ...	7	Repairing road on Vadavar bank, 10 miles, at Rs. 100 per mile.	1,000		
Do. ...	Do. ...	8	Repairing road on the Coleroon bank, 20 miles, at Rs. 100 per mile.	2,000		
Do. ...	Do. ...	9	Repairing road on right bank of Khan Sahib's canal, 6 miles, at Rs. 75 per mile.	450		
Do. ...	Do. ...	10	Repairing road from Vriddhá-chalam road, 11 miles, to Kandiamallore by Perumal tank bank, 10 miles (3 miles at Rs. 50 and 7 at Rs. 20 per mile).	290		
Do. ...	Do. ...	11	Rebuilding the arches, parapets, &c., of the bridge over the Shatiatope anicut.	3,000		
Do. ...	Do. ...	12	Maintenance of branch road from 30th mile, coast road, to new weirs in the 3rd mile of Govarput channel, 2 miles, at Rs. 45 per mile.	90		
Trichinopoly ...	Trichinopoly and Udayárpálaiyam.	13	Road No. 20 from Sirudiyur *viâ* Sengaveyur to lower anicut, 20 miles, at Rs. 50 per mile.	1,000		
Tanjore ...	Kumbakónam.	14	Road No. 12 from Auduthorai to Tranquebar, 3½ miles, at Rs. 50 per mile.	175		
			Carried over ...	10,505	4,040	

GOVERNMENT OF MADRAS.

LIST OF REPAIRS PROPOSED TO BE CARRIED OUT BY THE PUBLIC WORKS DEPARTMENT DURING 1887-88—*cont.*

Executive Division.	Locality.	Item No.	Name of Work.	Grant, 1887-88.	Total.	Remarks.
			Brought forward ...	Rs. 10,505	Rs. 4,040	
			Local Funds under Act V of 1884—*cont.*			
Tanjore ...	Kumbakónam.	15	Road No. 47 along the right bank of Thirumalarajanar from road No. 14 eastward, 5½ miles, at Rs. 50 per mile.	275		
Do. ...	Kumbakónam, Máyavaram and Shiyáli.	16	Road No. 70 along the Coleroon south bank from lower anicut to Anaikára chattram, 28 miles, at Rs. 50 per mile.	1,400		
Do. ...	Kumbakónam.	17	Road No. 79 along the Arasillár south bank, 3¼ miles, at Rs. 40 per mile.	130		
Do. ...	Tanjore ...	18	Road along the right bank of the Vennár from road No. 39 eastwards, 3 miles, at Rs. 50 per mile.	150		
Do. ...	Do. ...	19	Road along Cauvery right bank from Vennár head to Thohoor, 2 miles, at Rs. 50 per mile.	100		
Do. ..	Kumbakónam.	20	Road No. 90 along the south bank of the Vennár, east of road No. 4 to Udaramangalam village, 3½ miles, at Rs. 60 per mile.	210		
Do. ...	Tanjore ...	21	Road from road No. 39 to Haridwaramangalam, 6 miles, at Rs. 50 per mile.	300		
Do. ...	Máyavaram ...	22	Road No. 12 from Auduthorai to Tranquebar, 23 miles, at Rs. 75 per mile.	1,725		
Do. ...	Máyavaram and Shiyáli.	23	Road No. 70 along the Coleroon south bank from lower anicut to Anaikára chattram, 28th to 31st mile.	250		
Do. ...	Nannilam ...	24	Road No. 79 along the Arasillár south bank, 12½ miles, at Rs. 50 per mile.	625		
Do. ...	Do. ...	25	Road No. 46 from Nagore to Kangalangery along the Vetár south bank to connect No. 16 with No. 35, 18½ miles, at Rs. 50 per mile.	1,200		
Negapatam ...	Tiruturaipúndi	26	Road No. 51 from Maniyar along the south bank of the Harichandranadi, 13½ miles, at Rs. 100 per mile.	1,340		
Do. ...	Do. ...	27	Road No. 63 from No. 26 near Tiruturaipúndi or from Ponáni to Kullimodoo, 11¾ miles.	1,270		
Do. ...	Mannárgudi ...	28	Road No 51 from road No. 18 to Mudyar head and joining road No. 35 and thence to Thalamayer, 9 miles, at Rs. 75 per mile.	673		
			Carried over ...	20,153	4,040	

GOVERNMENT OF MADRAS.

LIST OF REPAIRS PROPOSED TO BE CARRIED OUT BY THE PUBLIC WORKS DEPARTMENT DURING 1887-88—*cont.*

Executive Division.	Locality.	Item No.	Name of Work.	Grant, 1887-88.	Total.	Remarks.
				Rs.	Rs.	
			Brought forward ...	20,153	4,040	
			Local Funds under Act V of 1884—*cont.*			
Negapatam ...	Mannárgudi...	29	Road No. 90 along the north bank of the Vennár from road No. 15 and joining No. 38, 5¼ miles, at Rs. 60 per mile.	315		
Do. ...	Do. ...	30	Road along the left bank of the Korayar on road No. 23 to Mudyar head, 4 miles, at Rs. 40 per mile.	160		
Tanjore ...	Kumbakónam.	31	Road along the south bank of Tirumalairajen to connect road No. 14 with No. 15, 3⅛ miles, at Rs. 60 per mile.	190		
					20,818	
			Total, Repairs ...	...	24,858	
			Canal and Ferry Fund.			
			Tools and Plant (Special).			
Godávari, Eastern.	.....	32	Construction and repair of ferry boats, Kovur-Manjer junction canal.	1,500		
					1,500	

PRELIMINARY ISSUE.

EXCLUDED LOCAL FUNDS.
PUBLIC WORKS BUDGET ESTIMATE.

MADRAS.

PUBLIC WORKS DEPARTMENT.

EXOLUDED LOCAL FUNDS BUDGET ESTIMATE

OF THE

PUBLIC WORKS DEPARTMENT

OF THE

GOVERNMENT OF MADRAS,

FOR THE YEAR

1887-88.

Prepared with reference to the Government of India Resolution No. 473 A.G., dated 17th November 1880.

Chepâk,
8th January 1887.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF EXCLUDED LOCAL FUNDS PUBLIC WORKS REVENUE IN THE MADRAS PRESIDENCY FOR THE YEAR 1887-88.

Budget Estimate of Revenue that will be realized by, and on account of Excluded Local Funds of, the Public Works Department in the Madras Presidency for the year from 1st April 1887 to 31st March 1888.

—	BUDGET ESTIMATE, 1887-88.	BUDGET ESTIMATE, 1886-87.	ACTUALS, 1885-86.
	Rs.	Rs.	Rs.
Realized in the Public Works Department	...	...	...
Total ...	...	...	...

EXCLUDED LOCAL FUNDS.
PUBLIC WORKS BUDGET ESTIMATE.

GOVERNMENT OF MADRAS.

BUDGET ESTIMATE OF EXPENDITURE FROM EXCLUDED LOCAL FUNDS ON PUBLIC WORKS IN THE MADRAS PRESIDENCY FROM 1ST APRIL 1887 TO 31ST MARCH 1888.

Abstract of Estimated Charges from Local Funds on Public Works in the Madras Presidency from 1st April 1887 to 31st March 1888.

	Budget Estimate, 1887-88.	Budget Estimate, 1886-87.	Actuals, 1885-86.
	Rs.	Rs.	Rs.
ORIGINAL WORKS.			
Civil Buildings	...	...	7,669
Communications	...	...	...
Miscellaneous Public Improvements	...	1,30,903	1,14,966
Total ...	...	1,30,903	1,22,635
REPAIRS.			
Civil Buildings	...	...	1,260
Communications	...	...	...
Miscellaneous Public Improvements	...	...	1,415
Total ...	...	...	2,675
TOTAL, WORKS AND REPAIRS.			
Civil Buildings	...	...	8,929
Communications	...	...	...
Miscellaneous Public Improvements	...	1,30,903	1,16,381
Total ...	...	1,30,903	1,25,310
Establishment	...	30,108	9,988
Tools and Plant	...	1,309	1,249
Grand Total ...	...	1,62,320	1,36,547

GOVERNMENT OF MADRAS.

ABSTRACT OF GRANTS ASSIGNED BY FUNDS.

	Funds to which the Grant for 1887-88 are chargeable.			Revised Estimate, 1886-87.
	Municipal.	Port Fund.	Totals, 1887-88.	
	Rs.	Rs.	Rs.	Rs.
ORIGINAL WORKS.				
Civil Buildings	...	...	...	9,100
Communications	...	...	...	...
Miscellaneous Public Improvements	...	...	...	1,44,699
Total ...	...	...	...	1,53,799
REPAIRS.				
Civil Buildings	...	...	...	610
Communications	...	...	...	...
Miscellaneous Public Improvements	...	...	...	2,859
Total ...	...	...	...	3,469
Total, Works and Repairs ...	...	...	...	1,57,268
Establishment	...	...	...	12,010
Tools and Plant	...	...	...	1,574
Grand Total ...	...	...	...	1,70,852

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

Read—the following papers:—

From the Superintending Engineer,		I Circle,	dated	26th	October	1886.	
"	"	II	"	22nd	"	"	
"	"	II	"	22nd	"	"	
"	"	II	"	22nd	"	"	
"	"	III	"	20th	"	"	
"	"	III	"	20th	"	"	
"	"	III	"	20th	"	"	
"	"	IV	"	9th	"	"	No. 378 E.W.
"	"	V	"	17th	"	"	" 3593.
"	"	V	"	17th	"	"	" 3594.
"	"	V	"	17th	"	"	" 3595.
"	"	V	"	17th	"	"	" 3596.
"	"	VI	"	30th	"	"	" 1096 T.J.
"	"	VI	"	2nd Nov.	"	"	" 1105 T.J.
" Consulting Architect to Government,			"	27th October	"		
Proceedings in the Financial Department,			"	30th Nov. 1886, No. 1617 L.F. Mis.			

Order—dated 8th January 1887, No. 50 W., Public Works.

Ordered that the preliminary issues of the Incorporated and Excluded Local Fund budget estimates enumerating the works to be executed by the Public Works Department during 1887-88, be printed and circulated to the officers concerned for information and guidance, and four copies forwarded to the Government of India.

2. Lists of works as proposed by the Superintending Engineers concerned under Act V of 1884, and under Canal and Ferry Funds, have been forwarded to the Financial and Revenue Departments respectively. But as the approval of Government in those departments to the same has not yet been received, and to admit of the budget estimates being submitted to the Government of India within the due date, the works as proposed by the Superintending Engineers have been adopted in the budgets, subject to modification, if necessary, in the final issues.

3. The differences between the budget and revised estimates for 1886-87 under Incorporated and Excluded Local Funds are due to funds having been provided in the year for incomplete works of last year, and for new works found necessary.

(Here enter No. 51 W., dated 8th January 1887.)

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
To the Consulting Architect to Government.
" Examiner, Public Works Accounts.
" Accountant-General.
" Financial Department.
" Revenue Department.

ENDORSEMENT—dated 8th January 1887, No. 51 W., Public Works.

Forwarded.

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. P. L. Pereira.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1887} Madras.

PUBLIC WORKS.

Dated January, 8th.

Recd. *Encl.*

G.O., 8th Jan. 1886, No. 51 W.

JANUARY.

Budget Estimates

Incorporated and Excluded Local Fund — of the Madras Public Works Department for 1887-88.—Copy of orders circulating the preliminary issues of the —, forwarded to the Government of India.

W. 505 N dy 19 Feby 87

Telegram (Deferred)

To
Works
Calcutta.

"Charges under Incorporated Local- please increase budget estimate 1887-88 by Rs. 68,651, reduce revised estimate by Rs. 1,06,946"

19.2.87

Tel. Despd. 19/2/87

Cu

W. 1912.

for 1887-88 is under execution by the Dowlaiswaram work-shops.

(By order)

(Sd) W.L.C. Baddeley Capt R.E.
Dy. Chief Engineer P.W.D.

B. No. 1803 W dy 6-7-87
" 1169 W " 29-4-87
" 567 W " 25-2-87
G.O. 1130-31 W " 25-4-87
B. " 563 W " 24-2-87
" " 505 W " 19-2-87
G.O. 51 W " 8-1-86
" 514 W " 22-2-87
" 2509 W " 10-10-84
" 1615 W " 15-6-87
" 881 W " 23-3-87
" 621 I " 1-7-84
" 3361 " 30-3-85

1887.

P. W. DEPARTMENT.

Current No. 5382.

From

The Revenue Dept.

ENCLOS.— 2

No. 3814 Mis

Dated 4th July 1887

Received 14 — do —.

SUBJECT.

Referring for remarks Pros: of the Bd. of Rev. (S.R.) submitting letter from the Exec. of P. W. Acc: expressing his opinion regarding percentages to be charged for Establishment & Tools & Plant in Connection with the Construction of certain boats.

DISPOSAL. (To be returned with reply)

No. 2423 Dated 20th July 1887

Referred to the S. E. I circle for favor of opinion & report whether the whole or any portion of the works referred to in Items Nos. 30 & 32 in the Incorporated Local Fund Budget

08081

Class. DS

INDIAN TELEGRAPH.

Local No.

To (Station) Triplicane

From (Station) Calcutta

Words	Day.	Hour.	Minute.
23/12	22	17	35

OFFICIAL INSTRUCTION.

dpt

To (Person) Works madras.

From (Person) Work

TELEGRAPH DEPARTMENT 24 FEB 87

1 Your telegram 19th
2 reducing revised estimate
3 Charges local by
4 rupees 1,06,946 wire
5 Cancel of lapse
6
7
8
9
10
11
12
13

RECD. FROM AT Hrs. L. N. Mts., By

SENT TO AT Hrs. L. N. Mts., By

Date MADRAS 23-2-37

Telegraph Master

B. Ellis, C.P.G.I.S.F.—S.7—No. 1093—11/87—10,84.

Cu

11/2

P.W.C. No 1444

R 24. 2. 87

No 563 W. R 22/2/87

Tel: desp 24/2

PUBLIC WORKS DEPARTMENT.

No 563-W

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 24 Feby: 87

READ the following

Telegram from the Govt. of India, P. W. Department dt 22nd February 1887.

Ordered that the following deferred telegram be sent to the Govt. of India:-

"Your telegram 22nd - Rs. 59.540 surrendered from grant for steamer, Rajahmundry Ferry, Godavari, purchase of steamer before close of official year being unlikely and Rs. 47,406 surrendered from Vaigai Bridge, Madura, owing to late provision of funds."

Jolu
24/2/87.

505 + 19.2.07

B. № 563 W d/24-2-07

BW
24/2.