BUDGET ESTIMATE OF EXPENDITURE ON THE HARBOUR WORKS IN MADRAS DURING 1883-84.

PART I.—SECTION A.

—	Budget Estimate, 1883-84.	Regular Estimate, 1882-83.	Budget Estimate, 1882-83.	Actual, 1881-82.
	RS.	RS.	RS.	RS.
Reconstruction	3,22,602	3,32,602	1,00,000	6,63,858
Repairs			5,000	...
Establishment	60,956	60,836	60,836	59,443
Tools and Plant	10,000	2,000	10,000	5,000
Suspense	1,73,442	1,71,562	24,164	61,458
Total ...	5,67,000	5,67,000	2,00,000	7,89,759

	RS.
Payments in India	3,93,558
Do. in England	1,73,442
Total ...	5,67,000

(Signed) N. ST. B. BEARDMORE, C.E.,
Ag. Superintendent, Madras Harbour Works..

GOVERNMENT OF MADRAS.

PART III.

Detail of the Budget Estimate for Establishments for the Harbour Works in Madras for 1883-84.

Number. 1882-83.	Number. 1883-84.	Particulars.	Salary of Office.	Estimate for 1883-84. Per Mensem.	Per Annum.	Total.	Estimate, 1883-84. Charges per Annum.
		DIRECTION.	Rs.	Rs.	Rs.	Rs.	Rs.
		Engineer Establishment.					
1	1	Engineer-in-Chief	...	...	5,000	5,000	...
1	1	Total, Direction ...	...	...	5,000	5,000	...
		CONSTRUCTION.					
		Engineer Establishment.					
1	1	Superintendent of Works	1,250	1,250			
1	1	Assistant Superintendent	700	700			
2	2	Total ...	...	1,950	23,400	23,400	...
		Upper Subordinate Establishment.					
1	1	Sub-Engineer	400	400			
1	1	Foreman of Works	400	400			
1	1	Mechanical Engineer	300	300			
1	1	Accountant	170	170			
4	4	Total ...	...	1,270	15,240	15,240	...
		Petty Establishment.					
1	1	Store-keeper	220	220			
2	2	Writer and Lascar from Rs. 30 and 7.	37	37			
1	1	Godown-keeper	25	25			
4	4	Total ...	...	282	3,384	3,384	...
		OFFICE ESTABLISHMENT.					
		Superintendent of Works.					
1	1	Head Clerk	80	80			
4	4	Clerks from Rs. 35, 30, 25 and 20 ...	110	110			
1	1	Cashier	40	40			
1	1	Draughtsman	40	40			
1	1	Surveyor	25	25			
3	3	Peons on Rs. 7	21	21			
11	11	Total ...	..	316	3,792	3,792	...
		Assistant Superintendent.					
1	1	Clerk	40	40			
2	2	Draughtsmen from Rs. 50 and 20 ...	70	70			
1	1	Surveyor	50	50			
3	3	Peons on Rs. 7	21	21			
7	7	Total ...	...	181	2,172	2,172	...

Detail of the Budget Estimate for Establishments for the Harbour Works, &c.—cont.

Number. 1882-83.	Number. 1883-84.	Particulars.	Salary of Office.	Estimate for 1883-84. Per Mensem.	Per Annum.	Total.	Estimate, 1883-84. Charges per Annum.
		CONSTRUCTION—*cont.*	Rs.	Rs.	Rs.	Rs.	Rs.
		OFFICE ESTABLISHMENT—*cont.*					
		Sub-Engineer Establishment.					
3	3	Clerks from Rs. 40, 25 and 20 ...	85	85			
1	1	Draughtsman	20	20			
2	2	Peons on Rs. 7	14	14			
6	6	Total ...	..	119	1,428	1,428	...
		Presidency House-rent and Allowances to Sub-Engineer, &c.	...	...	2,040	2,040	..
		Total, Salaries ...	...	...	...	51,456	...
		Travelling Allowances	...	...	...	3,000	...
		Office Expenses and Contingencies ...	...	...	...	1,500	...
		Total ...	...	...	...	55,956	...

ABSTRACT OF FOREGOING PROVISION FOR ESTABLISHMENT.

—	Salaries.	Travelling Allowances.	Contingencies.	Total. 1883-84.	Total. 1882-83.
	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	5,000	...	...	5,000	...
Construction	51,456	3,000	1,500	55,956	...
Total ...	56,456	3,000	1,500	60,956	...

MADRAS,
December 1882.

(Signed) N. ST. B. BEARDMORE, C.E.,
Ag. Superintendent, Madras Harbour Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

No. 151.

Read—the following letter from N. St. B. BEARDMORE, Esq., C.E., Acting Superintendent, Madras Harbour Works, to the Deputy Chief Engineer, Public Works Department, dated Madras, 11th December 1882, No. 48 W.:—

I have the honor to forward the budget estimate for 1883-84, called for in your memorandum No. 2227 C., dated 5th December 1882.

No. 152.

Order—dated 21st December 1882, No. 3375 W., Public Works.

In April 1882 a grant of 2,00,000 was sanctioned by telegram to meet the outlay on block-making, quarrying and establishment charges during 1882-83 in connection with the Madras Harbour Works, and with G.O., No. 1622 W., of 27th June 1882, a budget estimate was submitted to the Government of India for that sum. A further grant of Rs. 3,67,000 was subsequently assigned for expenditure during 1882-83 to meet incidental charges as well as the cost of stores indented for from England.—*Vide* G.Os., 2961-62 W. and 3048 W., dated respectively 24th October and 17th November 1882. The total grant for the works during 1882-83 is thus Rs. 5,67,000.

2. No specific assignment has been made by the Government of India for the next official year, 1883-84. A budget estimate has however now been prepared for a similar amount, viz., Rs. 5,67,000, and this will be forwarded for the approval and sanction of the Government of India.

(Here enter No. 3376 W., dated 21st December 1882.)

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintendent, Madras Harbour Works.
„ Examiner, Public Works Accounts.
„ Marine Department.

No. 153.

Endorsement—dated 21st December 1882, No. 3376 W., Public Works.

Copy of the above forwarded to the Government of India.

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

Exd. S. T. Austin.
Spare Copies

GENERAL.
ACCOUNT.

Govt. of {1882} Madras.

PUBLIC WORKS.

Dated December, 21st.

Read. *Encl.*

G.O., 21st Dec. 1882, No. 3376 W.

DECEMBER.
Nos. 151—153.

Madras Harbour Works.

Budget estimate for the — for 1883-84.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following :—

Report of Committee appointed in G.O., No. 1259 W., dated 30th April 1883, to consider the best means for giving effect to the proposals made for the completion of the Madras Harbour, dated 20th June 1883.

ORDER—dated 4th July 1883, No. 1855 W., Public Works.

The Committee appointed in G.O., No. 1259 W., dated 30th April 1883, to consider the question of the restoration of the Madras Harbour Works, having now submitted their Report, the papers will be forwarded for the orders of the Government of India, and copies furnished for the information of the Secretary of State.

(Here enter No. 1856 W., dated 4th July 1883.)

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintendent, Madras Harbour Works.
,, Marine Department.
,, Master Attendant.
,, Examiner, Public Works Accounts.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated July, 4th.

Recd. *Encl.*

G.O., 4th July 1883, No. 1855 W.

JULY.

Madras Harbour Works

Report of the Committee appointed to consider the question of the restoration of the —, ordered to be forwarded for the information of the Government of India and the Secretary of State.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

LETTER—from

COLONEL R. H. SANKEY, C.B., R.E.,

Secretary to the Government of Madras,

Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

SIR,

With reference to Despatch No. 10, Public Works, dated 8th March 1883, from the Right Honorable the Secretary of State, on which this Government was desired to consider the recommendations of Sir John Hawkshaw's Committee on the Madras Harbour, dated 23rd January 1883, "in view to assisting the Government of India to arrive at a decision upon the course which it will be most desirable to follow in reference to the work of restoration," I am now directed by His Excellency the Governor in Council to submit the annexed report of a Committee which was lately assembled at Madras to frame the needful estimates, and to consider the question of restoration in all its bearings.

2. In the first place, as regards the estimated cost of the works, this Committee, on a close review of the rates of work, time required for execution, &c., find that to restore the breakwaters on the plan most favored by Sir John Hawkshaw's Committee (*i.e.*, as per Sections Nos. 1, 2, and 3 of their report) would be as follows, viz. :—

	Rs.
(1) While retaining the present Harbour entrance	50,93,980
(2) While reducing the entrance to 450 feet	51,85,580

The latter sum compares directly with the Home Committee's Estimate No. 1, amounting to £479,219-15-2.

3. As will be observed, the Madras Committee have shown by the highest nautical opinion that it would be dangerous to decrease in any way the width of the present eastern entrance, and that so long as this latter is left open the Harbour must remain exposed, as at present, to continued disturbance, as well as being a perpetual source of the gravest anxiety to all concerned during cyclone periods.

4. They further show that, while carrying out for the seaward arms the random block method of reconstruction, which is stated to be "a safe system to follow" by Sir John Hawkshaw's Committee, the objectionable eastern entrance may be closed, and a perfectly still-water Harbour created, at a total outlay of Rs. 51,42,626, or for Rs. 42,954 less than that needed for reconstructing the works in the manner most approved by the Home Committee.

5. The incidental advantages of the plan suggested (see paragraphs 46 to 54 of the present Committee's Report) are so marked that His Excellency in Council trusts they may be fully weighed in arriving at a conclusion in regard to the completion of this great work.

6. Not only would the Harbour enjoy complete immunity from disturbance during ordinary weather, thus facilitating in every way all the trade operations of the port, but what is of the highest moment, no ships need be sent to sea on the commence-

ment of a storm. It is impossible, in the opinion of this Government, to lay too great stress on this single fact, or to doubt the soundness of the reasoning on which it has been established.

7. Not only, moreover, could the Harbour, under the altered conditions, be dredged out and its area increased to any required extent, but, as observed by the Committee, it might, by a suitable system of defences, form a complete Harbour of refuge in times of war.

8. As regards the resumption of the works, I am now to submit that every day's delay is adding to the cost of establishment, and continues the disadvantages under which the trade of the port has been suffering since the cyclone of the 12th November 1881.

9. Everything is in readiness for pushing on operations, excepting the needful machinery for placing the blocks in the manner now recommended, and as regards which it is probable that Mr. Parkes's services might at once be availed of.

10. So soon as the duty of providing this machinery has been performed by Mr. Parkes, it is thought that his further connection with the work should cease; indeed, His Excellency in Council would be well pleased if his services in the position of Engineer-in-Chief for the work could even now be dispensed with. His original plans for the Harbour Works have had to be abandoned as proving unsound in practice, and he no longer commands the confidence of this Government as its professional adviser.

11. On the other hand, the present Superintendent of the work, Mr. Thorowgood, by his assiduity, intelligence, and the soundness of his professional views, has established for himself a confidence which is shared alike by the Government and the public. Were he constituted Engineer-in-Chief, not only would Mr. Parkes's salary be saved, but the very serious inconveniences of his absence in London and divided control would be at once put an end to.

Soliciting very early orders,

I have the honor to be,

Sir,

Your most obedient servant,

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

FORT ST. GEORGE,
4th July 1883.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated July, 4th.

Recd. *Encl.*

4th July 1883, No. 1856 W.

JULY.

Madras Harbour Works

FORWARDING Report of the Committee appointed to consider the question of the reconstruction of the —.

Provincial Statement of Objectionable Items in the Accounts requiring the orders of Government.

of Executive Engineers for the Month of May 1883

Item No.	Particulars of each Item.	Month in the Accounts of which Objectionable Expenditure first appeared.	Comparison with Estimate. Amount of Estimate.	Comparison with Estimate. Expenditure up to Date.	Comparison with Estimate. Excess over Estimate.	Comparison with Appropriation of the Year. Amount of Appropriation.	Comparison with Appropriation of the Year. Expenditure of the Year.	Comparison with Appropriation of the Year. Excess over Appropriation.	Expenditure during the Month.	Opinion of the Superintending Engineer, with final Remarks by Examiner.	Orders by Government.
	Imperial										
	Excess over Estimate	Oct 1881									
	and										
	Want of appropriation	April 1883									
1	Madras Harbour works		5745165	647866	733502	..	20631	20631	9195	Sanction to revised estimate still awaited Appropriation of Funds also awaited	The Govt of India have been addressed in the subject
	Miscellaneous Irregularities										
	I Works for which revised estimates are required										
2	Madras Harbour works			as above							
	II Non submission of Returns										
3	Return of Tools and Plant for the half year ending 31st March 1883	April 1883								The Superintendent states that the Return of Tools and Plant will be submitted as soon as the stock taking is finished which is drawing to a close	Noted
	III Advances outstanding										
	Carriage allowance of Mr H. St B. Beardmore disallowed under Go. No 4174 W dated 8th February 1883		345							The Superintendent states that the adjustment of this item is in abeyance pending orders of Government	G.O. No 1848 W dy 3rd July 1883 on the last noted on the subject

D. Clendon

Examiner of P. W. Accounts,

Madras.

Supt to Dr H. Works

Thro' the Exam of Pts

3376 - 11.12.82
B. 1848 w 3.7.83
1937 w 11.7.83

NOTES.

Reference to Madras P. W. D. Code.

Chapter XIV.—Paras. 1829 to 1832.

1. The object of this Return is to place before Government an analysis of all shortcomings in matters of financial regularity in the operations of each month with a view to their being remedied. It should be submitted to Government on the first day of the third month succeeding that to which the accounts relate.

2. There should be a separate statement for each separate Fund—Imperial, Provincial, Local, and Irrigation.

3. The Provincial statement will be posted from the Divisional Statements of Objectionable Expenditure. The statement need not be delayed in order to embody the remarks of the Superintending Engineers if these do not reach the Examiner's Office in time. It is desirable, however, that the Superintending Engineer's opinion should be recorded as far as may be practicable, and, in order to ensure this being done, the Divisional Statement of Objectionable Items should be checked immediately on receipt and sent to the Superintending Engineer for his remarks before the audit of the other accounts is proceeded with.

4. All Executive Officers who have failed to submit their Divisional Statements of Objectionable Items with their Monthly Accounts, as well as those whose statements are *generally incomplete*, should be specially brought to the notice of Government under "General Remarks" at the end of the statement.

5. Items of irregular expenditure which are left unincluded by Executive Engineers in their Divisional Statements of Objectionable Items should be distinctly noted as such either in a separate supplementary statement or in the original statement in red ink.

6. Columns under all the heads should be filled up in each case so as to bring out clearly where estimate or appropriation exists and where it does not.

7. In the case of large projects such important features as the following should be stated with precision:—

A. Lump sum estimate.
B. Abstract detail estimate by sub-heads, and so on.

1. Submitted to Chief Engineer.
2. Submitted to Superintending Engineer.
3. Not yet submitted.

8. A large work which is proceeded with on merely a lump sum sanction is still objectionable till an abstract and detail estimate by sub-heads is submitted and sanctioned for it by competent authority.

9. Special mention should be made of works being carried out in portions by authorities, beyond whose powers of sanction it would be to sanction the expenditure as a whole.

10. An important point to notice is the duration of a serious irregularity.

11. Voluminous masses of detail, when their practical significance could be given in a few lines, should always be avoided as a rule. If, for instance, the state of matters as to sanction in one month does not materially differ from that of a preceding month, it will answer all practical purposes to say so, instead of sending another full report.

12. Too much stress can never be laid on the fact that this statement is not to take place of special reports, then and there, of works on which serious irregular expenditure is being largely incurred, either without estimate or appropriation.

C.V.C

O.N. 8672/83

P. W. D. Madras.
Form No. M 64 *a*.

Delhi

CENTRAL OFFICE OF ACCOUNTS.

Circle Harbour Works

Fund Imperial

Provincial Statement of Objectionable Items in the Accounts of Executive Engineers for the Month of May 1883.

No. ———

Madras,
Dated 6 August 1883.

Forwarded for orders to the Secretary to Government, Public Works Department, Madras.

D. C. Gordon

Examiner of P. W. Accounts,
Madras.

No 2196 Dy 9-8-83

Witte 8/8/83

Entd. in Receipt Register