Financial (1895) Department.

ORDINARY PRINTED.

G.O., No. 609-10.

DATED 23rd August 1895.

INDEXED. 31/32

[Despatch Abstract.]

REVISED ESTIMATES OF THE HARBOUR TRUST BOARD.-

Forwarding to the Government of India the revised estimates of expenditure on construction works of the Madras Harbour for 1895-96 and telegraphing to that Government that the Harbour Trust Board requires an additional loan of three lakhs and seventy- three ~~and seventy~~ thousand rupees during the current year.

CB

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	2982		95				

23RD AUGUST 1895, Nos. 609, 610, FINANCIAL.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—again the following paper :—

G.O., dated 4th May 1895, No. 366, Financial.

ABSTRACT.—Communicating to the Chairman, Harbour Trust Board, letter from the Government of India sanctioning an advance to that Board during the current financial year of Rs. 82,000 for expenditure on the harbour works.

READ—also the following papers :—

G.O., dated 9th May 1895, No. 1108 W., Public Works.

ABSTRACT.—Directing that the revised construction estimate of Rs. 1,27,52,528 for the completion of the Madras harbour works be laid before the Right Honourable the Secretary of State for formal sanction, and that the Government of India be requested to direct the Examiner, Public Works Accounts, to undertake the regular audit of the harbour works accounts.

* * * * *

6. The indent for cement has been disposed of in separate Proceedings, and the budget estimate of expenditure for 1895–96 will be dealt with in the Financial Department.

7. The budget estimate amounts to Rs. 4,70,682 and is made up as follows :—

		RS.
The balance of sanctioned estimates on 31st March 1895		68,227
Supplemental estimates now submitted		3,69,122
	Total ..	4,37,349
Advance to be made but which will be subsequently recovered by the sale of stores on the completion of works		33,333
	Total ..	4,70,682

* * * * *

(Signed) J. PENNYCUICK, Col., R.E.,
Secy. to Govt., P.W.D.

No. 1477.

MEMORANDUM.

The budget cannot be forwarded to the Government of India in its present form.

2. The estimates now submitted compare as follows with those sanctioned by the Right Honourable the Secretary of State in his despatch, dated 7th January 1892, No. 1, Public Works :—

—	Sanctioned estimates.	Present estimates.	Difference.
Harbour Works.	LAKHS.	LAKHS.	LAKHS.
Preliminary	·06	·06	..
North pier	24·81	25·86	+1·05
South pier	21·01	21·99	+ ·98
Protective works	1·55	1·55	..
Establishment	5·34	6·73	+1·39
Tools and plant	6·12	6·12	..
Contingencies	2·17	2·48	+ ·31
Total ..	61·06	64·79	+3·73
Deduct—			
Probable recoveries on account of tools and plant	2·77	2·47	+ ·30
Sale of stores and refunds	..	·34	— ·34
	2·77	2·81	— ·04
Net cost ..	58·29	61·98	+3·69

3. The calculations are based on the actual expenditure up to 31st December 1894; it is desirable to fix the requirements in 1895–96, starting from the completed outlay up to 31st March 1895.

4. From the sum of Rs. 82,227 already sanctioned by the Government of India for the current year, the Engineer, Harbour Trust Board, deducts Rs. 14,000 as "overdrawn in 1894–95". This is not understood, as no more than 1·50 lakh has been drawn from the treasury, and the whole of the ·82 lakh is available for expenditure in 1895–96.

5. It is not clear why the sum of Rs. 68,227 is added to the estimated requirements; it should apparently be deducted as it represents the balance on hand, according to the Engineer.

6. The real position would appear to be as follows:—

	LAKHS.
Additional outlay over sanctioned estimate	3·73
Further advances to be now made but to be eventually recovered ..	·34
	4·07
Deduct amount already sanctioned by the Government of India ..	·82
Net amount required ..	3·25

The works are expected to be completed in the current year, and the sale-proceeds of tools, stores and recoveries of advances ought to shortly bring in 2·81 lakhs, leaving a small balance of ·44 lakh to be provided for.

7. A revised budget should be submitted, through the Examiner of Public Works Accounts, as early as possible.

OOTACAMUND,
26*th June* 1895.

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
Copy to the Public Works Department.

From A. LEE POGSON, Esq., Engineer, Harbour Trust Board, to the Chairman, Harbour Trust Board, dated Madras, 19th July 1895, No. 313.

In reply to your endorsement, No. 191 E., dated 28th June 1895, forwarding copy of official memorandum, No. 1477, dated 26th idem, I have the honour to forward herewith a statement showing the outlay up to 31st March 1895, and a budget estimate for the completion of these works, based upon the actual expenditure

to the 31st March 1895, showing the further amount required to complete the works during the current official year 1895–96. The amount required for expenditure in the current year is as follows:—

	RS.
Sum required in official year 1895–96 for expenditure in completing works	4,40,682
Deduct amount (or balance) already sanctioned by the Government of India = 82·227—14,000 advanced by Board, so balance due from Government and Board = ...	68,227
Net amount required additional, for 1895–96	3,72,455
Deduct additional recovery on stores on completion of works ..	3,333
Excess upon sanctioned estimate ..	3,69,122

2. The difference of Rs. 14,000 between Rs. 82,227 and Rs. 68,227 said to have been overdrawn in 1894–95 is the amount advanced by the Harbour Trust Board to be recouped from the grant of Rs. 82,227 sanctioned for the current year, which was spent on the works and included in the outlay of Rs. 59,87,230; consequently, the balance due to the works is reduced to and is only Rs. 68,227.

3. This amount is the unexpended balance on the sanctioned estimate available for expenditure in 1895–96, apart from the revised estimate, viz., Rs. 3,72,455, which is the amount required for the completion of works in 1895–96.

4. With reference to paragraph 5 of the official memorandum, you will observe that the sum of Rs. 68,227 was deducted from the gross amount of the budget estimate, but not added to it, as it is a balance available and required for expenditure on the balance of sanctioned estimate.

5. As regards the deduction of the recovery on tools and plant of 2·81 lakhs, being deducted from the sum required for completion, before the works are completed, I would refer to paragraph 2 of G.O., No. 313, Financial, dated 9th May 1891, wherein it is understood that no recovery can be made on tools and plant before completion as all the "tools and plant" is required to complete the works with; the recovery will therefore be made after completion.

Completion Estimate of

Sub-head of Work.	As per estimate sanctioned in Secretary of State's Despatch No. 1, dated 7th January 1892.				
	Quantity.	Rate.	Per.	Cost.	Total.
1	2	3	4	5	6
Expenditure up to 31st December 1884.		Rs. A. P.		Rs.	Rs.
1. Works	..	..	..	55,09,324	
2. Establishment	..	..	..	5,29,904	
3. Tools and plant	..	..	..	5,15,262	
Total	..	..	..	..	65,54,490
Revised Estimate.					
4. Alteration and extension of block ground	Prely.	..	..	5,892	5,892
North Pier.					
5. Ordinary rubble deposited from breakwater	Tons.	13,930	1 12 0	Ton.	24,378
6. " " " from boats	"	206,896	2 0 5	"	4,19,218
7. Concrete blocks for buildings	C. yds.	51,320	11 8 0	C. yd.	5,90,110
8. Setting blocks at commencement of new work	"	2,615	2 1 1	"	5,415
9. " " from 2,200 to 3,600 feet	"	36,520	2 14 3	"	1,05,569
10. " " at pier-head	"	12,185	9 8 11	"	1,16,424
11. Concrete in mass for filling	"	263	4 8 3	"	1,188
12. Wave-breaker blocks	"	288	9 5 7	"	2,692
13. " concrete blocks	"	77,355	10 14 11	"	8,45,591
14. Depositing do.	"	77,932	1 0 0	"	77,928
15. Concrete in protection to rubble base	"	1,986	10 4 1	"	20,358
16. Cramps, iron	No.	331	9 10 1	Each.	3,188
17. Concrete capping	C. yds.	16,352	11 3 10	C. yd.	1,83,798
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34		..	..	..	84,750
Total for North Pier		..	..	..	24,80,607
South Pier.					
19. Ordinary rubble deposited from boats	Tons.	175,078	2 9 0	Ton.	4,49,052
20. Large rubble deposited from breakwater	"	8,615	1 12 0	"	15,076
21. Concrete blocks for building	C. yds.	45,066	11 3 1	C. yd.	5,04,510
22. Setting blocks at commencement	"	2,556	3 1 6	"	7,912
23. " " from 2,550 to 3,700 feet	"	30,160	3 7 11	"	1,05,461
24. " " at pier-head	"	12,350	11 1 3	"	1,36,845
25. Concrete in mass for filling	"	602	7 9 1	"	4,555
26. " in cylindrical pier-head	"	2,355	15 0 0	"	35,325
27. " in filling in between coursed blockwork and caisson	"	184	15 0 0	"	2,760
28. Wave-breaker concrete blocks	"	47,231	11 1 6	"	5,24,070
29. Depositing " "	"	47,714	1 5 8	"	64,708
30. Concrete in protection to rubble base	"	1,700	9 10 6	"	16,420
31. Cramps, iron	No.	259	11 7 7	Each.	2,972
32. Concrete capping	C. yds.	16,247	11 5 8	C. yd.	1,84,495
33. Iron caisson	No.	1	..	"	18,000
34. Preparing base for and setting cylindrical pier-head	"	..	..	"	28,665
Total for South Pier		..	..	..	21,00,826
Extending the rubble revetment protecting the foreshore, North of Harbour.					
35. Rubble stone revetment	Tons.	70,600	2 1 0	Ton.	1,45,613
36. Railway lines		..	..	..	9,849
		..	..	..	1,55,462
37. Tools and plant		..	..	..	6,11,656
38. Contingencies		..	..	..	2,17,415
39. Establishment		..	..	..	5,34,369
40. Materials at site (concrete blocks in yards)	C. yds.	..	..	..	..
41. Advances to work-people		..	..	..	..
Total of estimate and value of work done		..	..	..	61,06,227
Deduct probable recoveries due to sales of tools and plant		..	..	..	2,77,331
Total		..	..	..	58,28,896
Total of revised estimate sanctioned in Secretary of State's Despatch		..	..	..	58,28,896
Estimated cost of additional works, extras and excesses found necessary up to completion of works, 1895–96.		..	..	..	..
Total estimated cost for completion of works		..	..	..	..

Madras Harbour Works.

As executed.					Total of revised estimate, columns 9, 10 and 11.	—
		Expenditure.				
Quantity.	Rate.	Expenditure up to end of 31st March 1895.	Balance of sanctioned estimate.	Supplemental estimate for completion.		
7	8	9	10	11	12	13
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
						55,09,324 8 10
..	..	55,09,324 8 10	..	..	..	5,29,904 0 0
..	..	5,29,904 0 0	..	..	..	5,15,262 6 0
..	..	5,15,262 6 0	..	..	..	65,54,490 0 0
..	..	65,54,490 14 10	..	..	..	
..	..	5,892 0 11	— 0 0 11	..	5,892 0 0	..
..	..	24,377 9 0	0 7 0	..	24,378 0 0	..
..	..	4,15,132 8 10	4,085 7 2	..	4,19,218 0 0	..
..	..	5,90,110 0 0	..	..	5,90,110 0 0	..
..	..	5,414 11 2	0 4 10	..	5,415 0 0	..
..	..	1,05,569 0 0	..	..	1,05,569 0 0	..
..	..	1,16,415 4 0	8 12 0	..	1,16,424 0 0	..
..	..	1,188 0 7	— 0 0 7	..	1,188 0 0	..
..	..	2,692 0 0	..	..	2,692 0 0	..
..	..	8,45,459 12 4	131 3 8	..	8,45,591 0 0	..
..	..	77,918 8 4	9 7 8	..	77,928 0 0	..
..	..	20,358 0 0	..	3,800 0 0	24,158 0 0	..
..	..	3,188 0 0	..	..	3,188 0 0	..
..	..	1,06,542 14 1	77,255 1 11	82,191 0 0	2,65,989 0 0	..
..	..	1,00,457 10 4	— 15,707 10 4	19,105 0 0	1,03,855 0 0	..
..	..	24,14,823 14 8	65,783 1 4	1,05,096 0 0	25,85,703 0 0	..
..	..	4,44,126 1 4	4,925 14 8	..	4,49,052 0 0	..
..	..	15,075 0 0	0 3 0	..	15,076 0 0	..
..	..	5,04,510 0 0	..	..	5,04,510 0 0	..
..	..	7,911 13 3	0 2 9	..	7,912 0 0	..
..	..	1,05,461 0 0	..	..	1,05,461 0 0	..
..	..	1,36,476 1 6	368 14 6	..	1,36,845 0 0	..
..	..	4,554 14 4	0 1 8	..	4,555 0 0	..
..	..	32,952 3 7	2,372 12 5	..	35,325 0 0	..
..	..			9,105 0 0	11,865 0 0	..
..	..	11 5 0	2,748 11 0	..	5,24,070 0 0	..
..	..	5,19,240 8 7	4,829 7 5	..	64,708 0 0	..
..	..	64,260 3 9	447 12 3	6,200 0 0	22,620 0 0	..
..	..	14,932 9 1	1,487 6 11	..	2,972 0 0	..
..	..	2,972 0 0	..	72,192 0 0	2,56,687 0 0	..
..	..	23,646 4 6	1,60,848 11 6	..	18,000 0 0	..
..	..	18,000 0 0	..	10,231 0 0	38,896 0 0	..
..	..	38,434 14 4	— 9,769 14 4	..	..	..
..	..	19,32,565 12 3	1,68,260 3 9	97,728 0 0	21,98,554 0 0	..
..	..					
..	..	1,40,093 13 2	5,519 2 10	..	1,45,613 0 0	..
..	..	11,665 7 10	—1,816 7 10	..	9,849 0 0	..
..	..	1,51,759 5 0	3,702 11 0	..	1,55,462 0 0	..
..	..	6,11,541 9 10	114 6 2	..	6,11,656 0 0	..
..	..	2,25,984 4 2	— 8,569 4 2	30,555 0 0	2,47,970 0 0	..
..	..	6,08,444 15 11	—74,075 15 11	1,39,076 0 0	6,73,445 0 0	..
..	..	36,184 0 7	— 36,184 0 7	..	..	..
..	..	34 3 2	— 34 3 2	..	..	..
..	..	59,87,230 2 6	1,18,996 13 6	3,72,455 0 0	64,78,682 0 0	64,78,682 0 0
..	..	..	—2,77,331 0 0	— 3,333 0 0	— 2,80,664 0 0	1,30,33,172 0 0 — 2,80,664 0 0
..	..	59,87,230 2 6	—1,58,334 2 6	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
..	..	..	..	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
..	..	..	..	3,69,122 0 0	..	..
..	..	..	..	..	61,98,018 0 0	..
..	..	..	..	..		

From the Chairman, Harbour Trust Board, dated 22nd July 1895, No. 1758-A.

ABSTRACT.—Submitting particulars called for in official memorandum, dated 26th June 1895, No. 1477, Financial, regarding supplementary estimate for completion of the Madras harbour.

No. 2655-D—B.

Forwarded to the Secretary to Government, Public Works Department, with reference to G.O., dated 3rd July 1895, No. 1620 W.

2. As far as can be seen, the statement submitted by the Harbour Trust Engineer appears in order.

26*th July* 1895. (Signed) I. S. SHERLOCK-HUBBARD,
Examiner, P. W. Accounts, Madras.

No. 646-D.

Forwarded to the Financial Department.

29*th July* 1895. (Signed) C. H. B. BURLTON,
Under Secy. to Govt., P.W.D.

From the Chairman, Harbour Trust Board, dated 26th July 1895, No. 1641.

ABSTRACT.—Intimating that the reply to official memorandum, Financial, No. 1477, dated 26th June, was forwarded through the Examiner of Public Works Accounts, as directed, on the 22nd July.

ORDER—dated 23rd August 1895, No. 609, Financial.

The revised estimates of expenditure on *Construction works* of the Madras Harbour for 1895–96 will be forwarded to the Government of India.

2. The position, as now brought out by the Engineer, would appear to be as follows :—

As compared with sanctioned estimates.

	LAKHS.
Revised estimate of restoration works..	64·79
Sanctioned estimates of loans from Government	61·06
Excess now required	3·73
Deduct amount of ultimate recoveries..	2·81
Net amount to be eventually provided by the Board	·92

As compared with past actuals.

	LAKHS.
Revised estimate of restoration works..	64·79
Outlay up to 31st March 1895 ..	59·87
Additional amount required	4·92
Deduct value of materials at site not included in the estimates	·37
	4·55
Deduct amount already sanctioned by the Government of India for expenditure in 1895–96	·82
Net amount required ..	3·73

3. It is understood that, as the recoveries will not be effected till after the completion of the works and as so large a sum as 3·73 lakhs cannot be conveniently provided from the Revenue account, the Harbour Trust Board will have to borrow the amount from Government.

4. The following telegram will accordingly be despatched to the Government of India, Finance and Commerce Department :—

"508. Your letter, 27th April 1895, No. 1970 A. Harbour Trust Board requires additional loan of three lakhs seventy-three thousand during current year. Revised estimates follow."

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
" Public Works Department.
" Marine Department.
" Accountant-General.

ENDORSEMENT—dated 23rd August 1895, No. 610, Financial.

Copy to the Government of India, Finance and Commerce Department (with copy of G.O., dated 9th May 1895, No. 1108 W.).

Chief Secretary.

Exd. A. Raitt.

Govt. of {1895} Madras.

FINANCIAL.

Issued

Read. *Encl.*

G.O., &c., 23rd August 1895,
Nos. 609, 610.

AUGUST.

Revised Estimates of the Harbour Trust Board.

Forwarding to the Government of India the revised estimates of expenditure on *Construction Works* of the Madras Harbour for 1895-96, and telegraphing to that Government that the Harbour Trust Board requires an additional loan of three lakhs and seventy-three thousand rupees during the current year.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

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	2·77	2·81	— ·04
Net cost ..	58·29	61·98	+3·69

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OOTACAMUND,
26*th June* 1895.

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
Copy to the Public Works Department.

From A. LEE POGSON, Esq., Engineer, Harbour Trust Board, to the Chairman, Harbour Trust Board, dated Madras, 19th July 1895, No. 313.

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to the 31st March 1895, showing the further amount required to complete the works during the current official year 1895–96. The amount required for expenditure in the current year is as follows:—

	RS.
Sum required in official year 1895–96 for expenditure in completing works	4,40,682
Deduct amount (or balance) already sanctioned by the Government of India = 82·227—14,000 advanced by Board, so balance due from Government and Board = ...	68,227
Net amount required additional, for 1895–96	3,72,455
Deduct additional recovery on stores on completion of works ..	3,333
Excess upon sanctioned estimate ..	3,69,122

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Completion Estimate of

Madras Harbour Works.

Sub-head of Work.	As per estimate sanctioned in Secretary of State's Despatch No. 1, dated 7th January 1892.					As executed.						
	Quantity.	Rate.	Per.	Cost.	Total.	Quantity.	Rate.	Expenditure.			Total of revised estimate, columns 9, 10 and 11.	—
								Expenditure up to end of 31st March 1895.	Balance of sanctioned estimate.	Supplemental estimate for completion.		
1	2	3	4	5	6	7	8	9	10	11	12	13
Expenditure up to 31st December 1884.		Rs. A. P.		Rs.	Rs.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
1. Works	..	..	..	55,09,324		..	..	55,09,324 8 10	..	..	..	55,09,324 8 10
2. Establishment	..	..	..	5,29,904		..	..	5,29,904 0 0	..	..	..	5,29,904 0 0
3. Tools and plant	..	..	..	5,15,262		..	..	5,15,262 6 0	..	..	..	5,15,262 6 0
Total	..	..	..	..	65,54,490	..	..	65,54,490 14 10	..	..	..	65,54,490 0 0
Revised Estimate.												
4. Alteration and extension of block ground	Prely.	..	..	5,892	5,892	..	..	5,892 0 11	— *0 0 11*	..	5,892 0 0	..
North Pier.												
5. Ordinary rubble deposited from breakwater	Tons.	13,930	1 12 0	Ton.	24,878	..	..	24,377 9 0	0 7 0			
6. „ „ „ from boats	„	206,896	2 0 5	„	4,19,218	..	..	4,15,132 8 10	4,085 7 2	..	24,378 0 0	..
7. Concrete blocks for buildings	C. yds.	51,320	11 8 0	C. yd.	5,90,110	..	..	5,90,110 0 0	..	..	4,19,218 0 0	..
8. Setting blocks at commencement of new work	„	2,615	2 1 1	„	5,415	..	..	5,414 11 2	0 4 10	..	5,90,110 0 0	..
9. „ „ from 2,200 to 3,600 feet	„	36,520	2 14 3	„	1,05,569	..	..	1,05,569 0 0	..	..	5,415 0 0	..
10. „ „ at pier-head	„	12,185	9 8 11	„	1,16,424	..	..	1,16,415 4 0	8 12 0	..	1,05,569 0 0	..
11. Concrete in mass for filling	„	263	4 8 3	„	1,188	..	..	1,188 0 7	— *0 0 7*	..	1,16,424 0 0	..
12. Wave-breaker blocks	„	288	9 5 7	„	2,692	..	..	2,692 0 0	..	..	1,188 0 0	..
13. „ concrete blocks	„	77,355	10 14 11	„	8,45,591	..	..	8,45,459 12 4	131 3 8	..	2,692 0 0	..
14. Depositing do.	„	77,932	1 0 0	„	77,928	..	..	77,918 8 4	9 7 8	..	8,45,591 0 0	..
15. Concrete in protection to rubble base	„	1,986	10 4 1	„	20,358	..	..	20,358 0 0	..	..	77,928 0 0	..
16. Cramps, iron	No.	331	9 10 1	Each.	3,188	..	..	3,188 0 0	..	3,800 0 0	24,158 0 0	..
17. Concrete capping	C. yds.	16,352	11 3 10	C. yd.	1,83,798	..	..	1,06,542 14 1	77,255 1 11	82,191 0 0	3,188 0 0	..
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34	..	..	..	..	84,750	..	..	1,00,457 10 4	— *15,707 10 4*	19,105 0 0	2,65,989 0 0	..
Total for North Pier	..	..	..	..	24,80,607	..	..	24,14,823 14 8	65,783 1 4	1,05,096 0 0	1,03,855 0 0	..
South Pier.											25,85,703 0 0	..
19. Ordinary rubble deposited from boats	Tons.	175,078	2 9 0	Ton.	4,49,052	..	..	4,44,126 1 4	4,925 14 8			
20. Large rubble deposited from breakwater	„	8,615	1 12 0	„	15,076	..	..	15,075 0 0	0 3 0	..	4,49,052 0 0	..
21. Concrete blocks for building	C. yds.	45,066	11 3 1	C. yd.	5,04,510	..	..	5,04,510 0 0	..	..	15,076 0 0	..
22. Setting blocks at commencement	„	2,556	3 1 6	„	7,912	..	..	7,911 13 3	0 2 9	..	5,04,510 0 0	..
23. „ „ from 2,550 to 3,700 feet	„	30,160	3 7 11	„	1,05,461	..	..	1,05,461 0 0	..	..	7,912 0 0	..
24. „ „ at pier-head	„	12,350	11 1 3	„	1,36,845	..	..	1,36,476 1 6	368 14 6	..	1,05,461 0 0	..
25. Concrete in mass for filling	„	602	7 9 1	„	4,555	..	..	4,554 14 4	0 1 8	..	1,36,845 0 0	..
26. „ in cylindrical pier-head	„	2,355	15 0 0	„	35,325	..	..	32,952 3 7	2,372 12 5	..	4,555 0 0	..
27. „ in filling in between coursed blockwork and caisson	„	184	15 0 0	„	2,760	..	..	11 5 0	2,748 11 0	9,105 0 0	35,325 0 0	..
28. Wave-breaker concrete blocks	„	47,231	11 1 6	„	5,24,070	..	..	5,19,240 8 7	4,829 7 5	..	11,865 0 0	..
29. Depositing „ „	„	47,714	1 5 8	„	64,708	..	..	64,260 3 9	447 12 3	..	5,24,070 0 0	..
30. Concrete in protection to rubble base	„	1,700	9 10 6	„	16,420	..	..	14,932 9 1	1,487 6 11	6,200 0 0	64,708 0 0	..
31. Cramps, iron	No.	259	11 7 7	Each.	2,972	..	..	2,972 0 0	..	..	22,620 0 0	..
32. Concrete capping	C. yds.	16,247	11 5 8	C. yd.	1,84,495	..	..	23,646 4 6	1,60,848 11 6	72,192 0 0	2,972 0 0	..
33. Iron caisson	No.	1	..	„	18,000	..	..	18,000 0 0	..	..	2,56,687 0 0	..
34. Preparing base for and setting cylindrical pier-head	„	..	..	„	28,665	..	..	38,434 14 4	— *9,769 14 4*	10,231 0 0	18,000 0 0	..
Total for South Pier	..	..	..	..	21,00,826	..	..	19,32,565 12 3	1,68,260 3 9	97,728 0 0	38,896 0 0	..
Extending the rubble revetment protecting the foreshore, North of Harbour.											21,98,554 0 0	..
35. Rubble stone revetment	Tons.	70,600	2 1 0	Ton.	1,45,613	..	..	1,40,093 13 2	5,519 2 10	..	1,45 613 0 0	..
36. Railway lines	..	..	..	..	9,849	..	..	11,665 7 10	—*1,816 7 10*	..	9,849 0 0	..
	..	..	..	..	1,55,462	..	..	1,51,759 5 0	3,702 11 0	..	1,55,462 0 0	..
37. Tools and plant	..	..	..	..	6,11,656	..	..	6,11,541 9 10	114 6 2	..	6,11,656 0 0	..
38. Contingencies	..	..	..	..	2,17,415	..	..	2,25,984 4 2	— *8,569 4 2*	30,555 0 0	2,47,970 0 0	..
39. Establishment	..	..	..	..	5,34,369	..	..	6,08,444 15 11	—*74,075 15 11*	1,39,076 0 0	6,73,445 0 0	..
40. Materials at site (concrete blocks in yards)	C. yds.	..	..	..	..	..	..	36,184 0 7	—*36,184 0 7*	..	..	..
41. Advances to work-people	..	..	..	..	..	..	..	34 3 2	— *34 3 2*	..	..	..
Total of estimate and value of work done	..	..	..	..	61,06,227	..	..	59,87,230 2 6	1,18,996 13 6	3,72,455 0 0	64,78,682 0 0	64,78,682 0 0
Deduct probable recoveries due to sales of tools and plant	..	..	..	..	2,77,331	..	..	..	—*2,77,331 0 0*	— *3,333 0 0*	— *2,80,664 0 0*	1,30,33,172 0 0 — *2,80,664 0 0*
Total	..	..	..	..	58,28,896	..	..	59,87,230 2 6	—*1,58,334 2 6*	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
Total of revised estimate sanctioned in Secretary of State's Despatch	..	..	..	..	58,28,896	..	..	..	..	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
Estimated cost of additional works, extras and excesses found necessary up to completion of works, 1895-96.	..	..	..	..	..	..	..	..	..	3,69,122 0 0	..	..
Total estimated cost for completion of works	..	..	..	..	..	..	..	..	..	..	61,98,018 0 0	..

From the Chairman, Harbour Trust Board, dated 22nd July 1895, No. 1758-A.

Abstract.—Submitting particulars called for in official memorandum, dated 26th June 1895, No. 1477, Financial, regarding supplementary estimate for completion of the Madras harbour.

No. 2655-D—B.

Forwarded to the Secretary to Government, Public Works Department, with reference to G.O., dated 3rd July 1895, No. 1620 W.

2. As far as can be seen, the statement submitted by the Harbour Trust Engineer appears in order.

26*th July* 1895. (Signed) I. S. SHERLOCK-HUBBARD,
Examiner, P. W. Accounts, Madras.

No. 646-D.

Forwarded to the Financial Department.

29*th July* 1895. (Signed) C. H. B. BURLTON,
Under Secy. to Govt., P.W.D.

From the Chairman, Harbour Trust Board, dated 26th July 1895, No. 1641.

Abstract.—Intimating that the reply to official memorandum, Financial, No. 1477, dated 26th June, was forwarded through the Examiner of Public Works Accounts, as directed, on the 22nd July.

Order—dated 23rd August 1895, No. 609, Financial.

The revised estimates of expenditure on *Construction works* of the Madras Harbour for 1895–96 will be forwarded to the Government of India.

2. The position, as now brought out by the Engineer, would appear to be as follows :—

As compared with sanctioned estimates.

	Lakhs.
Revised estimate of restoration works..	64·79
Sanctioned estimates of loans from Government	61 06
Excess now required	3·73
Deduct amount of ultimate recoveries..	2·81
Net amount to be eventually provided by the Board	·92

As compared with past actuals.

	Lakhs.
Revised estimate of restoration works..	64·79
Outlay up to 31st March 1895 ..	59·87
Additional amount required	4·92
Deduct value of materials at site not included in the estimates	·37
	4·55
Deduct amount already sanctioned by the Government of India for expenditure in 1895–96	·82
Net amount required ..	3·73

3. It is understood that, as the recoveries will not be effected till after the completion of the works and as so large a sum as 3·73 lakhs cannot be conveniently provided from the Revenue account, the Harbour Trust Board will have to borrow the amount from Government.

4. The following telegram will accordingly be despatched to the Government of India, Finance and Commerce Department :—

"508. Your letter, 27th April 1895, No. 1970 A. Harbour Trust Board requires additional loan of three lakhs seventy-three thousand during current year. Revised estimates follow."

(True Extract.)

J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
" Public Works Department.
" Marine Department.
" Accountant-General.

Endorsement—dated 23rd August 1895, No. 610, Financial.

Copy to the Government of India, Finance and Commerce Department (with copy of G.O., dated 9th May 1895, No. 1108 W.).

Chief Secretary.

Exd. A. Raitt.

Govt. of {1895} Madras.

FINANCIAL.

Issued

Recd. *Encl.*

G.O., &c., 23rd August 1895,
Nos. 609, 610.

AUGUST.

Revised Estimates of the Harbour Trust Board.

Forwarding to the Government of India the revised estimates of expenditure on *Construction Works* of the Madras Harbour for 1895-96, and telegraphing to that Government that the Harbour Trust Board requires an additional loan of three lakhs and seventy-three thousand rupees during the current year.

366: 4. 5. 95
277/3: 25. 3. 95
341/2: 24. 4. 95.
336: 23. 4. 95.
302: 6. 4. 95.
24: 11. 1. 95.

Financial Dept.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1895} Madras.

PUBLIC WORKS.

Dated May, 9th.

Recd. 17/5/95 *Encl.*
Reg^d. 18/5/95.

G.O., 9th May 1895, No. 1108 W.

CHIEF SECRETARY
17 MAY 1895
GOVERNMENT OF MADRAS

MAY.

Madras Harbour Works

Orders directing that the revised construction estimate of Rs. 1,27,52,508 for the completion of the — be laid before the Right Honourable the Secretary of State for formal sanction, and that the Government of India be requested to direct the Examiner, Public Works Accounts, to undertake the regular audit of the Harbour Works accounts.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper :—

From E. TURNER, Esq., I.C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, Marine Department, dated Madras, 8th March 1895, No. 4385.

I have the honour to submit herewith an estimate, dated 6th February, received from the Board's Engineer for expenditure upon the Madras Harbour during the official year 1895–96, which was considered by the Trustees at the special meeting of the Board held on Friday, 15th idem, under section 37, Act II of 1886.

The Engineer therein states his requirements for completing the harbour as follows :—

	Rs.	Rs.
Balance of sanctioned estimate		68,227
Advance to be recovered on sale of stores	33.333	
Excess on works	3,69,122	
		4,02,455
Total ...		4,70,682

2. As I have already informed Government, this demand for so large an additional outlay took the Board very much by surprise, no mention of any excess expenditure having been made by the Engineer up to the submission of his progress report, dated 4th February, for the quarter ending 31st December 1894, in which no reference was made to the sanctioned estimate being insufficient to complete the harbour. On the contrary in reply to an inquiry from the Government of India No. 2515/A., dated Simla, 22nd May 1894, the Engineer stated on 4th June 1894 that the sanctioned estimate " Rs. 61,06,227 is all that is required."

3. Annexed to the budget estimate are statements A and B. The former shows the additional outlay under various heads, which with the exception of the extra cement, Mr. Pogson contends should be recovered from Port or other funds and credited to harbour construction; the items, however, appear to be rightly debitable to the harbour works, but this is a matter for the auditor to report upon.

4. After the Board's special meeting of the 15th February the Engineer was called upon to explain why earlier intimation was not given by him that he anticipated so large an excess of expenditure. His reply No. 884, dated 13th February, is submitted for information. With regard to paragraph 3 of that letter, the meeting of the Board to which Mr. Pogson alludes, is apparently the committee meeting held on the 30th November 1894, but none of the Trustees present at that meeting, and now in Madras, have any recollection of any such statement being made; at any rate it was not put forward as a request that an additional 5 per cent. might be provided, and if the Engineer knew then that it would be needed he should have made his requirements known at once; but he explains that only since the 10th January 1895, from actual work done, could he gather data to enable him to name the actual cost of completing the works.

5. While much regretting that earlier intimation was not given to Government, the Trustees have no option now, but to submit for information and favour of orders, a revised estimate for the completion of the harbour in the form which accompanies all progress reports and shows the various sub-heads of work under column 1, against which is shown the expenditure up to 31st December 1894, columns 8 and 9, the balance available under the sanctioned estimate, column 10, the present supplimentary estimate for completion, column 11, and in 12, the total of the revised sanctioned estimate and of this supplemental estimate.

6. The excess appears due chiefly to two causes: first, the delay in completing the works, and secondly, the enhanced charge for cement. The first has necessitated a very much heavier expenditure upon staff than was anticipated, and the latter is due to the additional proportion of cement used, and hereafter to be used in the capping in compliance with the instructions of Sir Alexander Rendel, communicated for guidance under G.O., No. 821 W., P.W., dated 24th March 1893.

7. The Trustees have inquired from their Engineer whether he was not mistaken in supposing that Sir Alexander Rendel meant that the capping should be of better quality than the blocks upon which it had to be placed, and he has replied very decidedly that "as regards the increased strength of concrete to be used Sir Alexander Rendel referred to *any concrete work yet to be done* and was aware that the capping was the future concrete work to be done; and as the G.O., No. 821 W., was communicated to me for guidance, I have carried out instructions and *as soon as possible* with facts before me framed my estimate accordingly."

8. Mr. Pogson is himself strongly of opinion that "in view of the recently found out action of sea water upon concrete cement, there would appear danger of this action taking place *above* water level * * * more than *below* water level in an open harbour of this description, where the water pressure is equal on both sides of the superstructure and the tidal range so small."

9. As the Board's Engineer freely corresponds with Sir Alexander Rendel, they are no doubt in accord in this opinion, and I have therefore to request that the accompanying indent for extra cement required may be forwarded to the India Office for favour of compliance, and as it is important in the interest of economy that no further delay should occur in the completion of the harbour, the Board would ask that a telegram be despatched requesting that it may be shipped at an early date. Sir Alexander Rendel has no doubt been kept fully advised by the Board's Engineer, and will be aware of the necessity for the supply, which Mr. Pogson states is required in June.

10. The Board would further request that the supplemental estimate for the completion of the harbour now furnished by their Engineer may be submitted to the Right Honourable the Secretary of State for sanction; and would be glad if the audit of the harbour works accounts could be proceeded with at once, the caisson at the south pier head will be, it is hoped, set in a few days, and the work thereafter will be much simpler, when being freed from the necessity for personal supervision of the works, the Engineer should turn his attention to the accounts and assist the auditor to complete same as soon as possible.

Enclosures.

Extract of Proceedings of the Trustees of the Harbour of Madras at a meeting held at the offices of the Board on Friday, the 8th day of March 1895.

* * * * *

2. Read correspondence with the Board's Engineer regading his budget estimate, dated 6th February, for expenditure upon the harbour during 1895–96 amounting to Rs. 4,70,682, being Rs. 4,02,455 in excess of the sanctioned estimate. The completion estimate submitted by the Engineer, as directed by the Chairman, having been printed and a copy sent to each Trustee, was discussed, together with draft of letter to the Chief Secretary to Government submitting same for the approval of the Right Honourable the Secretary of State.

Resolved that the Chairman's draft letter to the Chief Secretary to Government submitting supplemental estimate is approved, and that the Engineer's indent for cement be passed and forwarded to Government for favour of compliance by the India Office.

* * * * *

(True Extract.)

(Signed) C. PINSENT,
Secretary, Harbour Trust Board.

From the Engineer, Harbour Trust Board, Madras, to the Chairman, Harbour Trust Board, dated 8th February 1895, No. 871.

I have the honour to forward the budget estimate for completing the Madras Harbour Works in the official year 1895–96, being Rs. 4,70,682, which sum includes excesses upon the estimate, due to delay in completing the works, &c., of Rs. 1,41,360 upon the sanctioned estimate of Rs. 58,28,896; and the balance is due to additional charges and work done not provided for in the sanctioned estimate, and additional work *plus* the balance remaining upon the sanctioned estimate, and a temporary advance of Rs. 33,333 upon the value to be recovered upon the sale of the stores on completion of works.

2. The schedule of office staff for the official year is forwarded for sanction under the Harbour Trust Board Act.

3. A separate schedule of the work establishment is furnished as usual, the cost of which is included in the value of work to be done, per yard, ton, &c., of work to be turned out to the completion of the works.

4. An estimate of the schedule of staff per mensem, and arrangements for working the Traffic and Porterage Departments, Machinery, Traffic arrangements and maintenance of Railway lines under the Engineer, Harbour Trust Board, is submitted for sanction, being the same arrangements as sanctioned for 1894–95 which have worked so well in the past year.

5. An indent for the balance of Portland cement is also forwarded including a new wire rope for the titan crane included in the budget estimate for early sanction and transmission through Government to the India Office, as the cement will be required in June 1895.

Budget estimate for completing Harbour Works on sanctioned design in 1895–96.

Balance of sanctioned estimate upon 31st March 1895, Rs. 82,227 (*vide* G.Os., Nos. 480 and 535, dated 8th June and 12th July 1894).

			Rs.
Amount overdrawn, 1894–95			14,000
Available balance on sanctioned estimates for 1895–96			68,227
	Rs.		
Cost of cement received on works to be paid for in official year 1895–96	58,189		
Cost of stone for caisson and capping	47,364		
Cost of cement required for increased proportions of concrete for capping, for completion of works ...	1,25,566		
Cost of fuel, stores and daily-paid labour for above to complete works	1,21,562		
		3,52,681	
Office establishment for 1895–96 as per schedule of staff, 1895–96	39,349		
Works establishment for 1895–96 as per schedule of staff, 1895–96	26,795		
		66,144	
Total of schedule of staff, 1895–96 to complete works ...	...		
Add compensation for land north of harbour to be paid in 1895–96	8,857		
Add refund of recovery made on tools and plant ...	30,000		
Add arrears due to estate of late Kazim Ali Nakvy Saib.	13,000		
Actual cash or value of payments and work to be done, 1895–96 *plus* materials on hand *to complete works* ...		51,857	
			4,70,682
Deduct balance of sanctioned estimate available for 1895–96 = Rs. 82,227—14,000 drawn, 1894–95 = balance			68,227

	RS.
Additional sum above estimate requiring sanction of Harbour Trust Board	4,02,455
Deduct advance to be made by Harbour Trust Board, of sum to be realised on sale of stores in stock, other than tools and plant on completion of works to be refunded to Harbour Trust Board, taken as two-thirds original cost	33,333
Total sum of *extras and excesses upon sanctioned estimate* as per detailed statements A and B requiring sanction of Government *for completion of works*	3,69,122

ABSTRACT of extra charges and excesses upon sanctioned estimate requiring further sanction of Government.

	RS.
Actual sum paid from Construction Funds since October 1890 and extras not included in *sanctioned estimate* as per *statement A attached*	2,27,762
Total sum or excesses upon sanctioned estimate from March 1895 due to works taking longer to complete, due to rough sea and removal of old works, &c., inclusive of additional charges of Provident Fund and exchange compensation allowances in 1895–96, *statement B*	1,41,360
Total of extra charges to works and excesses upon estimate requiring further sanction of Government	3,69,122

BUDGET estimate for 1895-96, completing works.

Additional sum charged to works including excesses upon estimate required in 1895–96	3,69,122
Balance of sanctioned estimate available for 1895–96 due from Government = Rs. 82,227—14,000 excesses drawn on budget estimate, 1894–95 = balance	68,227
Advance required on value of stores in stock to be recovered on sale of same on completion of works	33,333
Total of budget estimate for 1895–96 which will complete the harbour works upon the sanctioned design in the above official year	4,70,682

TOTAL cost of Madras Harbour Works to completion.

Total of sanctioned estimate (framed in October 1890) sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892	1,23,83,386
Total estimated cost of completing works upon sanctioned design in 1895–96, including excesses and additional charges, added to cost of works not anticipated as per statements A and B requiring further sanction	3,69,122
Total cost of Madras Harbour Works on completion of sanctioned design in 1895–96 inclusive of all extras and excesses, &c.	1,27,52,508

STATEMENT A showing additional outlay since sanction of estimate charged to Construction Estimate.

Refund of—Extras not included in sanctioned estimate, but already carried out and met from Construction Funds since October 1890 for cement and for work, other than construction proper, to completion of works:—

	RS.
Realignment of Beach Railway lines for Tramway Company ...	14,679
Extensions to the Fort Drain for the Madras Municipality ...	13,948
Compensation for land north of the Harbour already paid ...	4,138
Repairs to revetment from October 1890 to February 1891 ...	10,301

	RS.
Insurance and other charges, additional, since October 1890 ...	1,291
Import duty on cement received	5,367
Sum paid to Presidency Port officer for work done by Agent, Government Consignments, 1890–92	3,000
Trust contribution towards Provident Fund to March 1895 ...	38,681
Exchange compensation allowance	10,791
Cement required for completion of works, 1895–96, including import duty, &c.	1,25,566
Total of extras upon sanctioned estimate, additional, to sum included for Provident Fund and exchange compensation allowance, to completion of works, 1895–96	2,27,762

STATEMENT B.—Extras upon sanctioned estimate due to work taking longer to complete, due to rough sea, &c.

	RS.	RS.
Excess on establishment as per statement of expenditure to 31st March 1895 (item 38)		66,000
Excess on contingencies (item 39)		5,711
Add office establishment and work establishment from March 1895 to completion of works as per schedule of staff, 1895–96 ...		66,144
Add fuel, longer maintenance of work establishment, drivers, gaugers, watchmen, pointsmen and trollymen at works, &c. ...		66,838
		2,04,693
Deduct sum to be realised on sale of stores on completion of works	33,333	
Deduct sum recovered on tools and plant	30,000	
		63,333
Actual excesses upon estimate due to works taking longer to complete		1,41,360

MADRAS,
6th February 1895.

(Signed) A. LEE POGSON, M.I.C.E., M.I.M.E., &c.,
Engineer, Harbour Trust Board.

From the Engineer, Harbour Trust Board, Madras, to the Chairman, Harbour Trust Board, dated Madras, 13th February 1895, No. 884.

I have the honour to acknowledge the receipt of your letter No. 5188 (*a*), dated the 9th instant, regarding the budget estimate for 1895–96 for completing the Madras Harbour Works.

2. The actual cash required for the completion of these works is Rs. 4,70,682 as stated, but Rs. 82,227 is not the available balance of the sanctioned advances but Rs. 1,02,196 + 68,227 = Rs. 1,70,423, being the balance due from Government for 1895–96 *plus* the sums paid out of the advances made for construction but spent upon other works not included in the estimate or Rs. 1,02,196, being money paid from construction advances now to be refunded, which should, from time to time, have been met from port or other funds, but by paying the above charges from and drawing on construction advances, the trust have had this sum for investment, and I have repeatedly remarked to the Chairman (Mr. Austin) and the Secretary that the construction estimate could not meet such charges and that a refund must be made for completion of works.

3. Some months back when I was permitted to be present at the Board's meeting, I was asked if the works would not be finished within 5 per cent. of the sanctioned estimate, and I informed the Trustees that 5 per cent. on the sanctioned estimate would easily cover the excesses, and although there has since been further delay in completing the works, the extra sum required Rs. 2,66,926 *plus* balance above, refund, and a small advance on stores, &c., is only 4½ per cent. on the sanctioned estimate—*vide* Secretary of State's despatch No. 1, dated 7th January 1892, and this sum even includes extras of Provident fund, exchange compensation allowance, compensation for land, duty on cement, &c., to the completion of the works.

4. As regards early intimation being given of the excess, it was presumed provision had been made for the above refund *plus* available balance from Government being available from March 1895 without further sanction and therefore the additional expenditure would not be required before June or five months hence.

5. The balance or actual sum or excess required from June 1895 could not be worked out earlier, as it was not certain when the south pier caisson would be set, and only since the 10th January 1895 from actual work done could I gather data to enable me to name the actual cost of completing the works and the excess now named is very small for any marine work.

6. It is well to mention that even with the first works without any difficulties, the excess was 15 per cent. over the estimate without the extras, while with these works "Reconstruction of damaged works" there has never been any data upon which a similar estimate could be framed, and it is surprising to find that the works can be completed for a sum so near the estimated cost.

EXTRACT of Proceedings of the Trustees of the Harbour of Madras at a special meeting held at the offices of the Board on Friday the 15th day of February 1895 under the provisions of section 37, Act II of 1886, to consider the estimates of receipts and charges for 1895–96.

* * * * * *

Read letter from the Board's Engineer, No. 871, dated 8th February, forwarding an estimate, dated 6th idem, for completing the harbour in 1895–96 amounting to Rs. 4,70,682.

Read minutes by Messrs. G. L. Chambers, R. J. Black and S. R. Turnbull.

Read letter from the Chairman, No. 5188 (*a*), dated 9th February, addressed to the Engineer, enquiring why earlier intimation was not given that he anticipated so large an excess of expenditure, the available balance under the sanctioned estimate being only Rs. 82,227.

Read letter in reply No. 884, dated 13th February, stating that only since the 10th January from actual work done could he gather the actual cost of completing the works. Mr. Pogson who was present explained that the excess was largely due to the larger proportion of cement now being used under the orders of Sir Alexander Rendel, viz., 1 in 6 instead of 1 in 10 as formerly and that when he wrote his letter No. 195, dated 4th June 1894, and stated—in reply to paragraph 4 of No. $\frac{A}{2515}$ from the Government of India, dated Simla, 22nd May—that the sanctioned estimate "Rs. 61,06,227 is all that is required," he was not in a position to foresee the extra outlay which he now finds to be necessary.

Resolved that this estimate be submitted to Government for information and for favour of orders.

* * * * * *

(True Extract.)

(Signed) C. PINSENT,
Secretary, Harbour Trust Board.

COMPLETION estimate of Madras Harbour Works.

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.					Quantity.	Rate.	Total expenditure up to 31st December 1894.	Balance of sanctioned estimate.	Supplemental estimate for completion.	Total of revised estimate, columns 9, 10 and 11.	Remarks.
	Quantity.	Rate.	Per	Cost.	Total.							Total cost.
1	2	3	4	5	6	7	8	9	10	11	12	13
Expenditure up to 31st Dec. 1884.		RS. A. P.		RS.	RS.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
1. Works	..	..	..	..		..	..	..	..	..	..	55,09,324 0 0
2. Establishment	..	..	..	..		..	..	..	..	..	..	5,29,904 0 0
3. Tools and plant	..	..	..	..		..	..	..	..	..	..	5,15,262 0 0
Total ..	..	..	..	..		..	..	..	..	..	..	65,54,490 0 0
Revised Estimate.												
4. Alteration and extension of block ground .. Prely.	..	..	..	5,892	5,892	..	..	5,892 0 11	..	..	5,892 0 0	..
North Pier.												
5. Ordinary rubble deposited from breakwater .. Tons.	13,930	1 12 0	Ton.	24,378		13,930	1 12 0	24,377 9 0	0 7 0	..	24,378 0 0	..
6. Ordinary rubble deposited from boats .. .. ,,	206,896	2 0 5	,,	4,19,218		205,477	2 0 8	4,15,132 8 10	4,085 7 2	..	4,19,218 0 0	..
7. Concrete blocks for building .. .. C. yds.	51,320	11 8 0	C. yd.	5,90,110		51,320	11 8 0	5,90,110 0 0	..	..	5,90,110 0 0	..
8. Setting blocks at commencement of new work .. ,,	2,615	2 1 1	,,	5,415		2,615	2 1 1	5,414 11 2	0 4 10	..	5,415 0 0	..
9. Setting blocks from 2,200 to 3,600 feet .. ,,	36,520	2 14 3	,,	1,05,569		36,520	2 14 3	1,05,569 0 0	..	..	1,05,569 0 0	..
10. Setting blocks at pier head ,,	12,185	9 8 11	,,	1,16,424		12,185	9 8 10	1,16,415 4 0	8 12 0	..	1,16,424 0 0	..
11. Concrete in mass for filling .. .. ,,	263	4 8 3	,,	1,188		263	4 8 3	1,188 0 7	— 0 0 7	..	1,188 0 0	..
12. Wave-breaker blocks .. ,,	288	9 5 7	,,	2,692		288	9 5 7	2,692 0 0	..	..	2,692 0 0	..
13. Wave-breaker concrete blocks .. .. ,,	77,355	10 14 11	,,	8,45,591		69,863	12 1 8	8,45,459 12 4	131 3 8	..	8,45,591 0 0	..
14. Depositing concrete blocks ,,	77,932	1 0 0	,,	77,928		70,457	1 1 8	77,918 8 4	9 7 8	..	77,928 0 0	..
15. Concrete in protection to rubble base .. ,,	1,986	10 4 1	,,	20,358		1,986	10 4 0	20,358 0 0	..	3,800 0 0	24,158 0 0	..
16. Cramps, iron .. .. No.	331	9 10 1	Each.	3,188		313	10 3 0	3,188 0 0	..	..	3,188 0 0	..
17. Concrete capping .. C. yds.	16,352	11 3 10	C. yd.	1,83,798		3,303¾	..	67,206 8 5	1,16,591 7 7	82,191 0 0	2,65,989 0 0	..
18. Cost of north pier caisson and setting in position and filling same as items 26,27,33 and 34 .. ,,	..	..	,,	84,750		..	..	84,727 1 9	22 14 3	19,105 0 0	1,03,855 0 0	..
Total for North Pier ..	..	..	..	..	24,80,607	..	..	23,59,757 0 5	1,20,849 15 7	1,05,096 0 0	25,85,703 0 0	..

Completion estimate of Madras Harbour Works—*cont.*

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.					Quantity.	Rate.	Total expenditure up to 31st December 1894.	Balance of sanctioned estimate.	Supplemental estimate for completion.	Total of revised estimate, columns 9, 10 and 11.	Remarks.
	Quantity.	Rate.	Per	Cost.	Total.							Total cost.
1	2	3	4	5	6	7	8	9	10	11	12	13
South Pier.		RS. A. P.		RS.			RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
19 Ordinary rubble deposited from boats .. Tons.	175,078	2 9 0	Ton.	4,49,052		173,659	2 9 4	4,44,126 1 4	4,925 14 8	..	4,49,052 0 0	..
20. Large rubble deposited from breakwater .. ,,	8,615	1 12 0	,,	15,076		8,615	1 12 0	15,075 13 0	0 3 0	..	15,076 0 0	..
21. Concrete blocks for building .. .. C. yds.	45,066	11 3 1	C. yd.	5,04,510		43,341⅝	11 10 3	5,04,510 0 0	..	..	5,04,510 0 0	..
22. Setting blocks at commencement .. ,,	2,556	3 1 6	,,	7,912		2,556	3 1 6	7,911 13 3	0 2 9	..	7,912 0 0	..
23. Setting blocks from 2,550 to 3,700 feet .. ,,	30,160	3 7 11	,,	1,05,461		30,160	3 7 11	1,05,461 0 0	..	..	1,05,461 0 0	..
24. Setting blocks at pier head .. .. ,,	12,350	11 1 3	,,	1,36,845		12,350	11 0 10	1,36,468 7 6	376 8 6	..	1,36,845 0 0	..
25. Concrete in mass for filling .. .. ,,	602	7 9 1	,,	4,555		602	7 9 1	4,554 14 4	0 1 8	..	4,555 0 0	..
26. Concrete in cylindrical pier head .. .. ,,	2,355	15 0 0	,,	35,325		..	..	12,904 11 10	22,420 4 2	..	35,325 0 0	..
27. Concrete in filling in between coursed blockwork and caisson .. ,,	184	15 0 0	,,	2,760		..	..	..	2,760 0 0	9,105 0 0	11,865 0 0	..
28. Wave-breaker concrete blocks .. ,,	47,231	11 1 6	,,	5,24,070		42,589⅞	12 2 9	5,14,062 0 0	10,008 0 0	..	5,24,070 0 0	..
29. Depositing concrete blocks .. .. ,,	47,714	1 5 8	,,	64,708		41,073	1 9 0	64,260 3 9	447 12 3	..	64,708 0 0	..
30. Concrete in protection to rubble base .. ,,	1,700	9 10 6	,,	16,420		1,108	13 7 7	14,932 9 1	1,487 6 11	6,200 0 0	22,620 0 0	..
31. Cramps, iron .. .. No.	259	11 7 7	Each.	2,972		220	13 8 1	2,972 0 0	..	..	2,972 0 0	..
32. Concrete capping .. C. yds	16,247	11 5 8	C. yd.	1,84,495		669	..	15,188 12 0	1,69,306 4 0	72,192 0 0	2,56,687 0 0	..
33. Iron caisson .. .. No.	1	..	,,	18,000		..	..	18,000 0 0	..	..	18,000 0 0	..
34. Preparing base for and setting cylindrical pier head .. .. ,,	..	..	,,	28,665		..	..	28,403 2 10	261 13 2	10,231 0 0	38,896 0 0	..
					21,00,826							
Total for South Pier ..	..	..	..	..		..	..	18,88,831 8 11	2,11,994 7 1	97,728 0 0	21,98,554 0 0	..
Extending the rubble revetment protecting the foreshore north of Harbour.												
35. Rubble stone revetment. Tons.	70,600	2 1 0	Ton.	1,45,613		91,051	1 8 8	1,40,093 13 2	5,519 2 10	..	1,45,613 0 0	..
36. Railway lines	..	..	..	9,849		..	..	11,665 7 10	—1,816 7 10	..	9,849 0 0	..
					1,55,462			1,51,759 5 0	3,702 11 0	..	1,55,462 0 0	..

Completion estimate of Madras Harbour Works—*cont.*

Sub-head of work.	As per estimate sanctioned in Secretary of State's despatch No. 1, dated 7th January 1892.					Quantity.	Rate.	Total expenditure up to 31st December 1894.	Balance of sanctioned estimate.	Supplemental estimate for completion.	Total of revised estimate, columns 9, 10 and 11.	Remarks.
	Quantity.	Rate.	Per	Cost.	Total.							Total cost.
1	2	3	4	5	6	7	8	9	10	11	12	13
Extending the rubble revetment protecting the foreshore north of Harbour—cont.		RS. A. P.		RS.	RS.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
					6,11,656	..	..	6,11,541 9 10	114 6 2	..	6,11,656 0 0	..
37. Tools and plant	..	..	..	..	2,17,415	..	..	2,22,509 2 7	— 5,094 2 7	30,535 0 0	2,47,970 0 0	..
38. Contingencies	..	..	..	..	5,34,369	..	..	5,97,854 0 2	— 63,485 0 2	1,39,076 0 0	6,73,445 0 0	..
39. Establishment	..	..	..	..								
40. Materials at site (concrete blocks in yards.) C. yds.	..	..	..	..	..	3,355¼	14 6 5	44,072 2 11	—44,072 2 11	..	..	..
41. Advances to work-people ..	..	..	..	..	..	..	..	34 3 2	— 34 3 3	..	..	..
Total of estimate and value of work done	..	..	..	..	61,06,227	..	..	58,82,251 1 11	2,23,975 14 1	3,72,455 0 0	64,78,682 0 0	64,78,682 0 0
												1,30,33,172 0 0
Deduct probable recoveries due to sales of tools and plant	..	..	..	..	2,77,331	..	..	— 29,775 12 7	—2,47,555 3 5	30,000 0 0	—2,47,331 0 0	— 2,47,331 0 0
Total ..	..	..	..	..	58,28,896	..	..	58,52,475 5 4	— 23,579 5 4	4,02,455 0 0	62,31,351 0 0	1,27,85,841 0 0
Deduct sale of stores and refunds of Harbour Trust Board on completion of works	..	..	..	..	..	..	..	..	..	— 33,333 0 0	—33,333 0 0	— 33,333 0 0
Total of revised estimate sanctioned in Secretary of State's despatch ..	..	..	..	..	58,28,896	..	..	58,52,475 5 4	— 23,579 5 4	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
Estimated cost of additional works, extra and excesses found necessary up to completion of works, 1895–96.	..	..	..	..	..	..	..	..	..	3,69,122 0 0		
Total estimated cost for completion of reconstruction of works ..	..	..	..	..	..	..	..	..	..	..	61,98,018 0 0	

MADRAS,
1st March 1895.

(Signed) A. LEE POGSON,
Engineer, Harbour Trust Board.

No. 551, Marine.

Transferred to the Public Works Department. Orders in regard to the audit of the harbour accounts will issue shortly.

FORT ST. GEORGE,
13th March 1895.

(Signed) J. F. PRICE,
Chief Secretary.

Note by the Chief Engineer, Public Works Department.

The papers submitted herewith refer to a revised estimate for the completion of the construction of the Madras harbour, from which it appears that the sanctioned estimate will be exceeded by a sum of Rs. 3,69,122, of which Rs. 2,33,379 is due to extra cost of work (including tools and plant), Rs. 1,39,076 to extra cost of establishment and Rs. 30,000 to a reduction in the sum expected to be recovered from the sale of plant; less a sum of Rs. 33,333 for sale of stores and refunds of Harbour Trust Board on completion of works, the nature of which, and the items of which it is made up, not being stated.

2. The only explanation given by the Engineer of the causes of this excess is that it is due to the delay in completing the works and to an increase in the quantity of cement used.

3. The former explanation is perhaps sufficient as regards the increased cost of establishment, but the latter can certainly not be accepted, without further information than is at present available, as accounting for an excess expenditure of 42 per cent. upon the cost of the concrete capping, the provision for which in the sanctioned estimate is Rs. 3,68,293, while in the revised estimate it is Rs. 5,22,676.

4. The total excess is not in itself very serious, being only 6·33 per cent. on the total sanctioned estimate of Rs. 58,28,896, or omitting establishment, only 3·94 per cent.; but it becomes serious in view of the fact that as lately as November last no notice appears to have been given to the Board that the estimate would be exceeded.

5. Mr. Pogson in his letter No. 884 of the 13th February 1895, paragraphs 4 and 5, states what is perfectly true that the actual excess is small for a work of this class; but the fact that it was not possible in 1886 to make a more accurate estimate than the one actually made is no reason whatever why an accurate estimate should not have been made long before January 1895, and I can only say that, if Mr. Pogson was not long before that date in possession of "data to enable him to name the actual cost of completing the works," he must have given very imperfect attention to the financial side of his duties.

6. It will be within the recollection of Government that last year the Harbour Trust Board applied for the services of an officer of this department to enquire into various matters connected with the management of the works, and it was proposed to depute Major Boddy, R.E., for this duty as soon as he could be spared, which was expected to be in October or November of last year; before the time arrived, for some reason with which I am unacquainted, the Board withdrew their application, which in my opinion is much to be regretted.

G.O., No. 322, Financial, dated 23rd April 1894.
Memo. No. 93 D., dated 4th May 1894.
G.O., No. 189, Marine, dated 24th May 1894.
Memo. No. 523 D., dated 5th July 1894
G.O., No. 286, Marine, dated 19th July 1894.
" " 425, Marine, dated 5th Nov. 1894.

7. As the case stands there is, I presume, no alternative but to submit the revised estimate to the Secretary of State for sanction, but I consider that it is eminently desirable to take steps for ensuring in the future a proper financial control over all expenditure on construction, and the first requisite for this is that all accounts for such expenditure should be subject to the regular audit of the Examiner of Public Works Accounts.

8. A proposal appears to have been made that the Examiner should undertake a private audit of these accounts under section 91 of the Civil Service Regulations. On this point I must record a very decided opinion that such an audit is not what is wanted and will not meet the requirements of the case.

9. What is necessary is the regular audit from month to month, which is given in the case of all Public Works expenditure; the Examiner considers that this audit is "extraneous to his duties;" and I am not sure that he is not correct as the law now stands. If so, it is very desirable that the audit in question should be brought within the scope of his duties, and I would suggest an early application being made to the Government of India for that purpose. There seems no reason why a small additional remuneration should not be given to him for this work, just as a remuneration is given to the Collector of Sea Customs for acting as Chairman of the Harbour Trust Board, but there should, I submit, be no room allowed for doubt that the audit is a regular and official one and not in any way private or special. The work is paid for in the first instance by money obtained from the public treasury, and the expenditure should be scrutinized in precisely the same manner as that on any other public work.

28th March 1895.

(Signed) J. PENNYCUICK, Colonel, R.E.,
Chief Engineer, P.W.D.

ORDER—dated 9th May 1895, No. 1108 W., Public Works.

With his letter No. 4385, dated 8th March 1895, the Chairman of the Madras Harbour Trust Board submits—

(*a*) a revised construction estimate for the completion of the works;
(*b*) an indent for cement; and
(*c*) a budget estimate of expenditure during 1895–96.

2. His Excellency the Governor in Council observes that the expenditure on works to the end of December 1894 amounted to Rs. 65,54,490 and that the revised estimate for reconstruction sanctioned by the Secretary of State in his despatch No. 1, Public Works, dated 8th January 1892, amounted to Rs. 58,28,896. The total amount of the revised sanctioned estimate thus comes to Rs. 1,23,83,386. The supplemental estimate now submitted amounts to Rs. 3,69,122, thus bringing the total estimated cost for the completion of works up to Rs. 1,27,52,508.

3. The supplemental estimate is made up as follows:—

	Rs.	Rs.
North Pier.		
Concrete in protection to rubble base	3,800	
Concrete capping	82,191	
Cost of north pier caisson and setting in position and filling	19,105	
		1,05,096
South Pier.		
Concrete in filling in between coursed block work and caisson	9,105	
Concrete in protection to rubble base	6,200	
Concrete capping	72,192	
Preparing base for and setting cylindrical pier head ...	10,231	
		97,728
		30,555
Contingencies		1,39,076
Establishment		30,000
Tools and plant		
		4,02,455
Deduct—Sale of stores and refunds of Harbour Trust Board on completion of works		33,333
Net supplemental estimate ...		3,69,122

4. Of the excess of Rs. 3,69,122 now submitted for sanction, Rs. 2,27,762 are attributed chiefly to the use of a larger proportion of cement in certain portions of the work considered necessary by the Consulting Engineer, and to items not included in the sanctioned estimate but now found to be necessary. The balance of Rs. 1,41,360 occurs under establishment, and is said to be due to delay in the completion of the works owing to difficulties not anticipated when the last revised estimate was drawn up.

5. His Excellency in Council regrets that this excess has been found necessary and that it was not foreseen and reported earlier. There is now no alternative but to lay the estimate before the Right Honourable the Secretary of State for formal sanction.

6. The indent for cement has been disposed of in separate Proceedings, and the budget estimate of expenditure for 1895–96 will be dealt with in the Financial Department.

7. The budget estimate amounts to Rs. 4,70,682 and is made up as follows:—

	RS.
The balance of sanctioned estimates on 31st March 1895	68,227
Supplemental estimates now submitted	3,69,122
Total ...	4,37,349
Advance to be made but which will be subsequently recovered by the sale of stores on the completion of works	33,333
Total ...	4,70,682

8. His Excellency the Governor in Council concurs with the Chief Engineer as to the necessity for a regular audit of the Harbour Works accounts on the same system as that adopted in the case of ordinary public works, and resolves that the Government of India be requested to direct the Examiner, Public Works Accounts, to undertake this duty at once, the question of remuneration being decided hereafter.

[Here enter No. 1109 W., dated 9th May April 1895.]

(True Extract.)

H. M. Lynch

Under Secy. to Govt., P.W.D.

To the Examiner, Public Works Accounts.
" Chairman, Harbour Trust Board.
" Marine Department.
" Financial " "

Exd. T. K. Narayana Aiyangar.
Spare Copies

Fund Co. 1174.

Order memo No. 1477
726–6–95

The Budget cannot be forwarded to the Govt of India in its present form.

2. The estimate now submitted compare as follows with those sanctioned by the Rt Hon. the Secy of State in his despatch d. 7 July 1892 No 1. Public works

	Sanctioned estimate	Present estimate	Difference
Harbour works			
	.06	.06	
Preliminary	24.81	25.86	+1.05
Earth work	21.01	21.99	+.98
Earth work	1.55	1.55	
Protective works	5.34	6.73	+1.39
Establishment	6.12	6.12	
Tools & plant	2.17	2.48	+.31
Contingencies	61.06	64.79	+3.73
Deduct {profits recovered on tools & plant}	2.77	2.47	+.30
{sale proceeds refunds}		.34	−.34
	2.77	2.81	−.04
Net cost	58.29	61.98	+3.69

3. The calculations are based on the actual expenditure up to 31st Dec 1894; it is desirable to fix the requirements in 1895-96, starting from the completed outlay up to 31st March 1895.

4. From the sum of Rs 82,2·27 already sanctioned by the Govt of India for the current year, A-G. Rwd, Engineer, deducts Rs 14,000 as "amount drawn in 1894-95"

This is not understood, as no more than 1·50 lakh has been drawn from the treasury & the whole of the ·82 lakh is available for expenditure in 1895-96.

It is not clear why

5. the sum of Rs 68,227 is added to the requirements, in para 7 of the above proceedings of the C.W.D.: it should apparently be deducted as it represents the balance in hand, awaiting

The Engineer.

6. The actual position would appear to be as follows — 5 Lakhs

Additional outlay now sanctioned should new further advances be made	3·73.
per statements received	·34
	4·07
Deduct amount already sanctioned for 1894-95	·82
Net amount required	3·25

4·34 / 4·27 — 4·70 / 5

It would be completed in the current year, and the former or later the disposal of tools, stores, & recoveries of advances ~~of advances~~ would be applied to bring in 2·81 lakhs, ~~that is~~ still leaving a balance of ·44 lakh to be provided for.

7. It appears to be ~~that~~ that it would be for more advantageous to the Board to utilise a portion of their surplus balances on the revenue account, temporarily for this purpose,

than to borrow any further sums from the Govt of India at 4½ percent.

8. A revised budget should be submitted, through the Examiner of Public Works accounts; as early as possible.

C.S. 13.6.95

18/6/95

2/6

Harbour Trust Budget

1477

C

H.M.

E

To Secy to Govt P.W.D.
for favour of continuity

H.M.

Please send up fair copies to be numbered & despatched here. I keep the connected papers.

21/6/95

P.W.D. (C)
Claims H.T.B^d. (C)
Accts Genl. (C)
Copy to the Party
18/6/95.

24/6
26/6

CURRENT No. 1801

Financial

MARINE DEPARTMENT.

FROM

THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

To

THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department.

DATED 26th July 1895

DESPATCHED 26th " 1895

RECEIVED 27 JUL 95 CHIEF SECRETARY

Regd 29/7

ENCLOSURE Nil

No. 1641

SUBJECT.

Informing that the reply to official memo Financial No. 1477 dated 26th June was forwarded through the Examiner Public Works Accounts as directed on the 22nd July

To await report from the Genl. P.W. Accts.

Bring up on 6th August if no reply received upto then

Cash
30/7/95

CURRENT No. 1807

Harbour Trust Board Office.

MADRAS, 26th July 1895.

No. 1641

From

A. Le Fanu Esquire I.C.S

CHAIRMAN, HARBOUR TRUST BOARD,

MADRAS.

To

The Hon'ble Mr. J. F. Price C.S.I; I.C.S.

Chief Secretary to Government,

Marine Department.

SIR,

I have the honour to acknowledge the receipt of your memo dated 24th instant, and to inform you that the reply to Official memo Financial No: 1477 dated 26th June was forwarded to your address through the Examiner, Public Works accounts, Madras, as directed, on the 22nd instant.

I have the honor to be
Sir
Your obedient Servant

A. Le Fanu
Chairman
Harbour Trust Board

CURRENT No. 1812.

MARINE DEPARTMENT.

From

THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

To

THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department.

DATED 22nd

DESPATCHED 23rd July 1895.

RECEIVED

ENCLOSURES two

No. 1758 (a)

Despatched

SUBJECT.

Madras Harbour

Supplementary Estimate for completion of the —— submitting particulars called for in Official Memo No. 1477 Financial dated 20th June 1895

No. 1620 W dt 3-7-95
1109 W dt 9-5-95
1108 W dt 9-5-95
2240 W dt 18-8-91

BC

Print wanted by D(P) and also in connection with letter from CS 30/7

P. W. CURRENT No. 5760

CURRENT No. 1812

Financial Deptt.

No 2655 B/B dated 26th July 1895
Encls 2

Print

Accs: 26-7-95

Forwarded through the Secretary to Government, Public Works Department with reference to G. O. No. 1620 W. dated 3rd. July 1895.

As far as can be seen the statement submitted by the Harbour Trust Engineer appears in order.

L. S. Sherlock-Hubbard

Examiner, P. W. Accounts, Madras.

E

CHIEF SECRETARY'S OFFICE
30 JUL 95
RECEIVED

Print

1646 D 29 July 1895

Forwarded to the Financial Department

C. A. D. Butler.

Madras Secy: to Govt.

P.W.D.

Recd 30/7.
Encl 2.

(not entered in the P.W.D)

O.L.S. 257

tion Estimate

of

HARBOUR WORKS.

~~Comparison of Expenditure to date with San~~ Estimate for the Quarter Ending 189 .

	Sub-head of Work.	As per Estimate Sanctioned in Secretary's Despatch No. 1, Dated 7th January				As Executed. Expenditure.				~~Total~~ of Revised Estimate ~~Arrears not paid.~~ Column 9, 10 & 11.	~~Value of work done up to date, columns 11 & 12.~~	Remarks.
		Quantity.	Rate.	Per.	Cost.	Quantity.	Rate.	~~Expenditure Total~~ up to end of ~~last Quarter.~~ 31st March 1895	~~Balance of During the Quarter.~~ Sanctioned Estimate	Supplemental ~~Up to date~~ Estimate for Completion		
	1	2	3	4	5	7	8	9	10	11	12	13	14
			Rs. A. P.		Rs.		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
	Expenditure up to 31st December 1884.												
1	Works	.....	... .	...	55,09,324	...	.....	55,09,324 8 10	....	~~55,09,324 8 10~~	....	55,09,324 8 10	
2	Establishment	.....	... .	...	5,29,904	...	.....	5,29,904 0 0	....	~~5,29,904 0 0~~	....	5,29,904 0 0	
3	Tools and Plant	.....	... .	...	5,15,262	...	.....	5,15,262 6 0	....	~~5,15,262 6 0~~	....	5,15,262 6 0	
	Total...	.....	... .	...		...	.....	65,54,490 14 10	....	~~65,54,490 14 10~~	....	65,54,490 ~~14 10~~	
	Revised Estimate.												
4	Alteration and extension of block ground ...Prely...	.....	... .	...	5,892	" " "		5892 " 11	— — 11	" " "	5892 " "		
	North Pier.												
5	Ordinary rubble deposited from breakwater ... Tons	13,930	1 12 0	Ton	24,378			24377 9 "	" 7 "	" " "	24378 " "		
6	Do. from boats ... „	2,06,896	2 0 5	„	4,19,218			415132 8 10	4085 7 2	" " "	419218 " "		
7	Concrete blocks for building ... ... C. yds.	51,320	11 8 0	C. yd.	5,90,110			590110 " "	" " "	" " "	590110 " "		
8	Setting blocks at commencement of new work ... „	2,615	2 1 1	„	5,415			5414 11 2	" 4 10	" " "	5415 " "		
9	Do. from 2,200 to 3,600 feet ... „	36,520	2 14 3	„	1,05,569			105569 " "	" " "	" " "	105569 " "		
10	Do. at Pierhead ... ... „	12,185	9 8 11	„	1,16,424			116415 4 "	8 12 "	" " "	116424 " "		
11	Concrete in mass for filling ... ... „	263	4 8 3	„	1,188			1188 " 7	— — 7	" " "	1188 " "		
12	Wave breaker blocks ... ... „	288	9 5 7	„	2,692			2692 " "	" " "	" " "	2692 " "		
13	Do. concrete blocks ... ... „	77,355	10 14 11	„	8,45,591			845459 12 4	131 3 8	" " "	845591 " "		
14	Depositing do. ... ... „	77,932	1 0 0	„	77,928			77918 8 4	9 7 8	" " "	77928 " "		
15	Concrete in protection to Rubble Base ... „	1,986	10 4 1	„	20,358			20358 " "	" " "	3800 " "	24158 " "		
16	Cramps, Iron ... ... No.	331	9 10 1	Each	3,188			3188 " "	" " "	" " "	3188 " "		
17	Concrete capping ... ... C. yds.	16,352	11 3 10	C. yd.	1,83,798			105542 14 1	77256 1 11	82191 " "	265989 " "		
18	Cost of North Pier Caisson and setting in position and filling same as items 26, 27, 33 & 34... „	.....	... .	„	84,750			100457 10 4	-15707 10 4	19105 " "	103855 " "		
	Total for North Pier ..	.....	... .	...	...			2414823 14 8	65783 1 4	105096 " "	2585703 " "		
	South Pier.												
19	Ordinary rubble deposited from boats... ... Tons	1,75,078	2 9 0	Ton	4,49,052			444126 1 4	4925 14 8	" " "	449062 " "		
20	Large do. deposited from breakwater ... „	8,615	1 12 0	„	15,076			15075 " "	" 3 "	" " "	15078 " "		
21	Concrete blocks for building ... ... C. yds.	45,066	11 3 1	C. yd.	5,04,510			504610 " "	" " "	" " "	504510 " "		
22	Setting blocks at commencement ... ... „	2,556	3 1 6	„	7,912			7911 13 3	" 2 9	" " "	7912 " "		
23	Do. from 2,550 to 3,700 feet ... „	30,160	3 7 11	„	1,05,461			105461 " "	" " "	" " "	105461 " "		
24	Do. at Pierhead ... ... „	12,350	11 1 3	„	1,36,845			134476 1 6	368 14 6	" " "	134845 " "		
25	Concrete in mass for filling ... ... „	602	7 9 1	„	4,555			4584 14 4	" 1 8	" " "	4555 " "		
26	Do. in Cylindrical Pierhead ... ... „	2,355	15 0 0	„	35,325			32952 3 7	2372 12 5	" " "	35325 " "		
27	Do. in filling in between Coursed Blockwork and Caisson ... ... „	184	15 0 0	„	2,760			11 5 "	2748 11 "	9105 " "	11865 " "		
28	Wavebreaker concrete blocks ... ... „	47,231	11 1 6	„	5,24,070			519240 8 7	4829 7 5	" " "	524070 " "		
29	Depositing do. ... ... „	47,514	1 3 8	„	64,708			64260 3 9	447 12 3	" " "	64708 " "		
30	Concrete in protection to Rubble Base ... „	1,700	9 10 6	„	15,420			14932 9 1	1457 4 "	6200 " "	22620 " "		
31	Cramps, Iron ... ... No.	259	11 7 7	Each	2,972			2972 " "	" " "	" " "	2972 " "		
32	Concrete capping ... ... C. yds.	16,247	11 5 8	C. yd.	1,84,495			23646 4 6	160841 11 6	72192 " "	256687 " "		
33	Iron Caisson ... ... No.	1	... ...	„	18,000			18000 " "	" " "	" " "	18000 " "		
34	Preparing Base for and setting Cylindrical Pierhead „	.....	... .	„	28,663			38434 14 4	-9704 14 4	10231 " "	38896 " "		
	Total for South Pier	....	... ...	...	...			1932565 12 3	168260 3 9	97728 " "	2198554 " "		
	Extending the rubble revetment protecting the foreshore North of Harbour.												
35	Rubble Stone Revetment ... ... Tons	70,600	2 1 0	Ton	1,45,613			140093 13 2	5519 2 10	" " "	145613 " "		
36	Railway Lines	.....	... .	..	9,849			11665 7 10	-1815 7 10	" " "	9849 " "		
					1,55,462			151769 5 "	3702 11 "	" " "	155462 " "		
37	Tools and Plant	.....	... .	...	6,11,656			611541 9 10	1146 2 "	" " "	611656 " "		
38	Contingencies	.....	... .	...	2,17,415			225984 4 2	-5549 4 2	30555 " "	247970 " "		
39	Establishment	.....	... .	...	5,34,369			608444 15 11	-74076 15 11	139076 " "	673445 " "		
40	Materials at site (Concrete blocks in yards) ... C. yds.	.....	... .	...	...			36184 " 7	-36184 " 7	" " "	" " "		
41	Advances to Work-people	.....	... .	...	...			34 3 2	-34 3 2	" " "	" " "		
	Total of Estimate and value of work done...	.....	... .	...	61,06,227			5987230 2 6	118996 13 6	372456 " "	6478682 " "	~~6478682~~	
	Deduct Probable recoveries due to sales of Tools and Plant.	.....	... .	...	2,77,331			" " "	-277331 " "	-3333	-280664	~~-280664~~	
	Total ...	.....	... .	...	58,28,896			5987230 2 6	118996 13 6	369122 " "	6198018 " "	12752508 " "	
									-158334 2 6				
	Total of revised Estimate sanctioned in Secretary of State's Despatch, plus expenditure before 31st December 1884.	... .	...	...	~~58,28,896~~ 1,28,83,886					369122 " "	6198018	12752508 " "	
	Estimated Cost of additional works found necessary up to ~~end of last Quarter~~ Completion of works. 1895-96	... .	...	...	...					369122			
	~~Estimated Cost of additional works found necessary during Quarter ending ...~~	... .	...	...	...								
	Total Estimated Cost for Completion of works	... .	...	...	...						6198018 " "		
	~~Deduct Total Expenditure as per column 11~~	... .	...	...	...								
	~~Total Estimated Cost of completing work after Quarter ending~~	.....	...	...	...								

Expenditure up to 31st March 189 — from commencement of works.
Do. during current official year from 1st April 189 — to
Total outlay.
Grant for 189 — 9 — Rs.

Madras,
19th July 1895.

Accountant,
M. H. Works Office.

Engineer, Harbour Trust Board.

No. 313

From

THE ENGINEER,

HARBOUR TRUST BOARD,

MADRAS.

HARBOUR TRUST MADRAS 20.JUL.95 SECRETARY'S OFFICE

To

The Chairman
Harbour Trust Board
Madras

Madras, 19 July 1895.

Sir,

H. T. B.

20-7-95
Encl 1.

In reply to your Endorsement No 191 R. dated 25 June 1895 forwarding copy of Official Memorandum No 1477 dated 26 Idem. I have the honor to forward herewith the statement showing the outlay up to 31st March 1895, and a Budget Estimate for the completion of these Works, based upon the actual Expenditure to the 31 March 1895, showing the further amount required to complete the Works during the Current Official year 1895-96. The amount required for expenditure in the current year is as follows.

follows.

Sum required in Official year 1895-96 for expenditure in completing Works. -- Rs. 4.40.682.

Deduct amount (or balance) already sanctioned by the Government of India = 32.227 - 14,000 advanced by Board. so balance due from Government and Board = " 68,227

Net amount required additional, for 1895-96 = Rs. 3,72.455

Deduct additional recovery on Stores on completion of Works - - - - - " 3,333

Excess upon Sanctioned Estimate - - - - - Rs. 3,69,122.

2. The difference of Rs 14,000 between Rs 82,227 and 68,227 said to have been overdrawn in 1894.95 is the amount advanced by the Harbour Trust Board, to be recouped from the grant of Rs 82,227 sanctioned for the current year, which was spent on the Works and included in the outlay of Rs 59.87230; consequently the balance due to the Works is reduced to, and is only Rs 68,227.

3. This amount is the unexpended balance on the sanctioned Estimate available for Expenditure in 1895-96, apart from the revised Estimate Viz Rupees 3,72,455. which is the amount required for the completion of Works in 1895-96.

4. With reference to para 5 of the Official Memorandum, you will observe that the sum of Rs 68,227. was deducted from the gross amount of the Budget Estimate, but not added to it, as it is a balance available and required for Expenditure on the balance of sanctioned Estimate

5. As regards the deduction of the recovery on Tools and Plant of 2.81 lakh. being deducted from the sum required for completion, before the Works are completed, I would refer to para 2 of G. O. N° 313

Financial dated 9th May 1891 wherein it is understood that no recovery can be made on Tools and plant, before completion; as all the "Tools and plant" is required to complete the Works with; the recovery will therefore be made after completion -

I have the honour to be,
Sir,
Your most obedient Servant,
A. Lee Pogson
Engineer, Harbour Trust Board.

O.W.S.1
5760/95

1895
July Dept.
Rec'd. No. 1
To
G. No. 1872

CURRENT NO. 3812

Abstract

Harbour Trust Board Office,

MADRAS, 22nd July 1895.

No. 1758 a

25

From A. Lee Pogson Esq I.C.S
Chairman, Harbour Trust Board,
MADRAS.

24 JUL 1895
W. ACCOUNTS

To The Honble Mr. J. F. Price C.I.E. &c.
Chief Secretary to Government,
Marine Department.

Sir, Thro - The Examiner of Public Works Accounts Madras

I have the honor to acknowledge the receipt of official Memo dated 26th June No. 1477 Financial Department and to submit, for the information of Government, a letter from the Board's Engineer, No. 313 dated 19th July (with statement) giving the particulars called for.

I have the honor to be
Sir
Your obedt. Servant

Chief Steel

A. Lee Pogson
Chairman
Harbour Trust Board

Rec

AUGUST 1895, No. , FINANCIAL.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—again the following paper :—

G.O., dated 4th May 1895, No. 366, Financial.

ABSTRACT.—Communicating to the Chairman, Harbour Trust Board, letter from the Government of India sanctioning an advance to that Board during the current financial year of Rs. 82,000 for expenditure on the harbour works.

READ—also the following papers :—

G.O., dated 9th May 1895, No. 1108-W., Public Works.

ABSTRACT.—Directing that the revised construction estimate of Rs. 127,52,528 for the completion of the Madras harbour works be laid before the Right Honourable the Secretary of State for formal sanction, and that the Government of India be requested to direct the Examiner, Public Works Accounts, to undertake the regular audit of the harbour works accounts.

* * * * *

6. The indent for cement has been disposed of in separate Proceedings, and the budget estimate of expenditure for 1895–96 will be dealt with in the Financial Department.

7. The budget estimate amounts to Rs. 4,70,682 and is made up as follows :—

	RS.
The balance of sanctioned estimates on 31st March 1895	68,227
Supplemental estimates now submitted	3,69,122
Total ..	4,37,349
Advance to be made but which will be subsequently recovered by the sale of stores on the completion of works	33,333
Total ..	4,70,682

* * * * *

(Signed) J. PENNYCUICK, Col., R.E.,
Secy. to Govt., P.W.D.

No. 1477.

MEMORANDUM.

The budget cannot be forwarded to the Government of India in its present form.

2. The estimates now submitted compare as follows with those sanctioned by the Right Honourable the Secretary of State in his despatch, dated 7th January 1892, No. 1, Public Works :—

—	Sanctioned estimates.	Present estimates.	Difference.
Harbour Works.			
Preliminary	·06	·06	..
North pier	24·81	25·86	+1·05
South pier	21·01	21·99	+ ·98
Protective works	1·55	1·55	..
Establishment	5·34	6·73	+1·39
Tools and plant	6·12	6·12	..
Contingencies	2·17	2·48	+ ·31
Total ..	61·06	64·79	+3·73
Deduct—			
Probable recoveries on account of tools and plant	2·77	2·47	+ ·30
Sale of stores and refunds	..	·34	— ·34
	2·77	2·81	— ·04
Net cost ..	58·29	61·98	+3·69

3. The calculations are based on the actual expenditure up to 31st December 1894; it is desirable to fix the requirements in 1895–96, starting from the completed outlay up to 31st March 1895.

4. From the sum of Rs. 82,227 already sanctioned by the Government of India for the current year, the Engineer, Harbour Trust Board, deducts Rs. 14,000 as "overdrawn in 1894–95". This is not understood, as no more than 1·50 lakh has been drawn from the treasury, and the whole of the ·82 lakh is available for expenditure in 1895–96.

5. It is not clear why the sum of Rs. 68,227 is added to the estimate requirements; it should apparently be deducted as it represents the balance on hand, according to the Engineer.

6. The real position would appear to be as follows:—

	LAKHS.
Additional outlay over sanctioned estimate	3·73
Further advances to be now made but to be eventually recovered ..	·34
	4·07
Deduct amount already sanctioned by the Government of India ..	·82
Net amount required ..	3·25

The works are expected to be completed in the current year, and the sale-proceeds of tools, stores and recoveries of advances ought to shortly bring in 2·81 lakhs, leaving a small balance of ·44 lakh to be provided for.

7. A revised budget should be submitted, through the Examiner of Public Works Accounts, as early as possible.

OOTACAMUND,
26*th June* 1895.

(Signed) J. F. PRICE,
Chief Secretary.

To the Chairman, Harbour Trust Board.
Copy to the Public Works Department.

From the Chairman, Harbour Trust Board, dated 22nd July 1895, No. 1758-A.

ABSTRACT.—Submitting particulars called for in official memorandum, dated 26th June 1895, No. 1477, Financial, regarding supplementary estimate for completion of the Madras harbour.

No. 2655-D—B.

Forwarded to the Secretary to Government, Public Works Department, with reference to G.O., dated 3rd July 1895, No. 1620 W.

2. As far as can be seen, the statement submitted by the Harbour Trust Engineer appears in order.

(Signed) I. S. SHERLOCK-HUBBARD,
26*th July* 1895. *Examiner, P. W. Accounts, Madras.*

No. 646-D.

Forwarded to the Financial Department.

(Signed) C. H. B. BURLTON,
29*th July* 1895. *Under Secy. to Govt., P.W.D.*

Completion Estimate of Madras Harbour Works.

Sub-head of Work.		As per estimate sanctioned in Secretary of State's Despatch No. 1, dated 7th January 1892.					As executed.					Total of revised estimate, columns 9, 10 and 11.	—
									Expenditure.				
		Quantity.	Rate.	Per.	Cost.	Total.	Quantity.	Rate.	Expenditure up to end of 31st March 1895.	Balance of sanctioned estimate.	Supplemental estimate for completion.		
1		2	3	4	5	6	7	8	9	10	11	12	13
			RS. A. P.		RS.	RS.		RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Expenditure up to 31st December 1884.													
1. Works		..	..	..	55,09,324		..	..	55,09,324 8 10	..	..	..	55,09,324 8 10
2. Establishment		..	..	..	5,29,904		..	..	5,29,904 0 0	..	..	..	5,29,904 0 0
3. Tools and plant		..	..	..	5,15,262		..	..	5,15,262 6 0	..	..	..	5,15,262 6 0
Total		..	..	..	..	65,54,490	..	..	65,54,490 14 10	..	..	..	65,54,490 0 0
Revised Estimate.													
4. Alteration and extension of block ground	Prely.	..	..	..	5,892	5,892	..	..	5,892 0 11	— *0 0 11*	..	5,892 0 0	..
North Pier.													
5. Ordinary rubble deposited from breakwater	Tons.	13,930	1 12 0	Ton.	24,378		..	..	24,377 9 0	0 7 0	..	24,378 0 0	..
6. " " " from boats	"	206,896	2 0 5	"	4,19,218		..	..	4,15,132 8 10	4,085 7 2	..	4,19,218 0 0	..
7. Concrete blocks for buildings	C. yds.	51,320	11 8 0	C. yd.	5,90,110		..	..	5,90,110 0 0	..	..	5,90,110 0 0	..
8. Setting blocks at commencement of new work	"	2,615	2 1 1	"	5,415		..	..	5,414 11 2	0 4 10	..	5,415 0 0	..
9. " " from 2,200 to 3,600 feet	"	36,520	2 14 3	"	1,05,569		..	..	1,05,569 0 0	..	..	1,05,569 0 0	..
10. " " at pier-head	"	12,185	9 8 11	"	1,16,424		..	..	1,16,415 4 0	8 12 0	..	1,16,424 0 0	..
11. Concrete in mass for filling	"	263	4 8 3	"	1,188		..	..	1,188 0 7	— *0 0 7*	..	1,188 0 0	..
12. Wave-breaker blocks	"	288	9 5 7	"	2,692		..	..	2,692 0 0	..	..	2,692 0 0	..
13. " concrete blocks	"	77,355	10 14 11	"	8,45,591		..	..	8,45,459 12 4	131 3 8	..	8,45,591 0 0	..
14. Depositing do.	"	77,932	1 0 0	"	77,928		..	..	77,918 8 4	9 7 8	..	77,928 0 0	..
15. Concrete in protection to rubble base	"	1,986	10 4 1	"	20,358		..	..	20,358 0 0	..	3,800 0 0	24,158 0 0	..
16. Cramps, iron	No.	331	9 10 1	Each.	3,188		..	..	3,188 0 0	..	..	3,188 0 0	..
17. Concrete capping	C. yds.	16,352	11 3 10	C. yd.	1,83,798		..	..	1,06,542 14 1	77,255 1 11	82,191 0 0	2,65,989 0 0	..
18. Cost of north pier caisson and setting in position and filling same as items 26, 27, 33 and 34	"	..	..	"	84,750		..	..	1,00,457 10 4	— *15,707 10 4*	19,105 0 0	1,03,855 0 0	..
Total for North Pier		..	..	..	..	24,80,607	..	..	24,14,823 14 8	65,783 1 4	1,05,096 0 0	25,85,703 0 0	..
South Pier.													
19. Ordinary rubble deposited from boats	Tons.	175,078	2 9 0	Ton.	4,49,052		..	..	4,44,126 1 4	4,925 14 8	..	4,49,052 0 0	..
20. Large rubble deposited from breakwater	"	8,615	1 12 0	"	15,076		..	..	15,075 0 0	0 3 0	..	15,076 0 0	..
21. Concrete blocks for building	C. yds	45,066	11 3 1	C. yd.	5,04,510		..	..	5,04,510 0 0	..	..	5,04,510 0 0	..
22. Setting blocks at commencement	"	2,556	3 1 6	"	7,912		..	..	7,911 13 3	0 2 9	..	7,912 0 0	..
23. " " from 2,550 to 3,700 feet	"	30,160	3 7 11	"	1,05,461		..	..	1,05,461 0 0	..	..	1,05,461 0 0	..
24. " " at pier-head	"	12,350	11 1 3	"	1,36,845		..	..	1,36,476 1 6	368 14 6	..	1,36,845 0 0	..
25. Concrete in mass for filling	"	602	7 9 1	"	4,555		..	..	4,554 14 4	0 1 8	..	4,555 0 0	..
26. " in cylindrical pier-head	"	2,355	15 0 0	"	35,325		..	..	32,952 3 7	2,372 12 5	..	35,325 0 0	..
27. " in filling in between coursed blockwork and caisson	"	184	15 0 0	"	2,760		..	..	11 5 0	2,748 11 0	9,105 0 0	11,865 0 0	..
28. Wave-breaker concrete blocks	"	47,231	11 1 6	"	5,24,070		..	..	5,19,240 8 7	4,829 7 5	..	5,24,070 0 0	..
29. Depositing " "	"	47,714	1 5 8	"	64,708		..	..	64,260 3 9	447 12 3	..	64,708 0 0	..
30. Concrete in protection to rubble base	"	1,700	9 10 6	"	16,420		..	..	14,932 9 1	1,487 6 11	6,200 0 0	22,620 0 0	..
31. Cramps, iron	No.	259	11 7 7	Each.	2,972		..	..	2,972 0 0	..	..	2,972 0 0	..
32. Concrete capping	C. yds.	16,247	11 5 8	C. yd.	1,84,495		..	..	23,646 4 6	1,60,848 11 6	72,192 0 0	2,56,687 0 0	..
33. Iron caisson	No.	1	..	"	18,000		..	..	18,000 0 0	..	..	18,000 0 0	..
34. Preparing base for and setting cylindrical pier-head	"	..	..	"	28,665		..	..	38,434 14 4	— *9,769 14 4*	10,231 0 0	38,896 0 0	..
Total for South Pier		..	..	..	..	21,00,826	..	..	19,32,565 12 3	1,68,260 3 9	97,728 0 0	21,98,554 0 0	..
Extending the rubble revetment protecting the foreshore, North of Harbour.													
35. Rubble stone revetment	Tons.	70,600	2 1 0	Ton.	1,45,613		..	..	1,40,093 13 2	5,519 2 10	..	1,45,613 0 0	..
36. Railway lines	..	..	..	..	9,849		..	..	11,665 7 10	—*1,816 7 10*	..	9,849 0 0	..
		..	..	..	..	1,55,462	..	..	1,51,759 5 0	3,702 11 0	..	1,55,462 0 0	..
37. Tools and plant	..	..	..	..	..	6,11,656	..	..	6,11,541 9 10	114 6 2	..	6,11,656 0 0	..
38. Contingencies	..	..	..	..	..	2,17,415	..	..	2,25,984 4 2	— *8,569 4 2*	30,555 0 0	2,47,970 0 0	..
39. Establishment	..	..	..	..	..	5,34,369	..	..	6,08,444 15 11	—*74,075 15 11*	1,39,076 0 0	6,73,445 0 0	..
40. Materials at site (concrete blocks in yards)	C. yds.	..	..	..	..	..	..	..	36,184 0 7	—*36,184 0 7*	..	..	..
41. Advances to work-people	..	..	..	..	..	..	..	..	34 3 2	— *34 3 2*	..	..	..
Total of estimate and value of work done		..	..	..	..	61,06,227	..	..	59,87,230 2 6	1,18,996 13 6	3,72,455 0 0	64,78,682 0 0	64,78,682 0 0
Deduct probable recoveries due to sales of tools and plant		..	..	..	..	2,77,331	..	..	..	—*2,77,331 0 0*	— *3,333 0 0*	— *2,80,664 0 0*	1,30,33,172 0 0 — *2,80,664 0 0*
Total		..	..	..	..	58,28,896	..	..	59,87,230 2 6	—*1,58,334 2 6*	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
Total of revised estimate sanctioned in Secretary of State's Despatch		..	..	..	..	58,28,896	..	..	..	..	3,69,122 0 0	61,98,018 0 0	1,27,52,508 0 0
Estimated cost of additional works, extras and excesses found necessary up to completion of works, 1895–96.		..	..	..	..	..	..	..	..	..	3,69,122 0 0	..	..
Total estimated cost for completion of works		..	..	..	..	..	..	..	..	..	..	61,98,018 0 0	..

From A. LEE POGSON, Esq., Engineer, Harbour Trust Board, to the Chairman, Harbour Trust Board, dated Madras, 19th July 1895, No. 313.

In reply to your endorsement, No. 191 E., dated 28th June 1895, forwarding copy of official memorandum, No. 1477, dated 26th idem, I have the honour to forward herewith a statement showing the outlay up to 31st March 1895, and the budget estimate for the completion of these works, based upon the actual expenditure to the 31st March 1895, showing the further amount required to complete the works during the current official year 1895–96. The amount required for expenditure in the current year is as follows :—

	Rs.
Sum required in official year 1895–96 for expenditure in completing works	4,40,682
Deduct amount (or balance) already sanctioned by the Government of India = 82·227—14,000 advanced by Board, so balance due from Government and Board = ...	68,227
Net amount required additional, for 1895–96	3,72,455
Deduct additional recovery on stores on completion of works ..	3,333
Excess upon sanctioned estimate ..	3,69,122

2. The difference of Rs. 14,000 between Rs. 82,227 and Rs. 68,227 said to have been overdrawn in 1894–95 is the amount advanced by the Harbour Trust Board to be recouped from the grant of Rs. 82,227 sanctioned for the current year, which was spent on the works and included in the outlay of Rs. 59,87,230; consequently, the balance due to the works is reduced to and is only Rs. 68,227.

3. This amount is the unexpended balance on the sanctioned estimate available for expenditure in 1895–96, apart from the revised estimate, viz., Rs. 3,72,455, which is the amount required for the completion of works in 1895–96.

4. With reference to paragraph 5 of the official memorandum, you will observe that the sum of Rs. 68,227 was deducted from the gross amount of the budget estimate, but not added to it, as it is a balance available and required for expenditure on the balance of sanctioned estimate.

5. As regards the deduction of the recovery on tools and plant of 2·81 lakhs, being deducted from the sum required for completion, before the works are completed, I would refer to paragraph 2 of G.O., No. 313, Financial, dated 9th May 1891, wherein it is understood that no recovery can be made on tools and plant before completion as all the "tools and plant" is required to complete the works with; the recovery will therefore be made after completion.

From the Chairman, Harbour Trust Board, dated 26th July 1895, No. 1641.

ABSTRACT.—Informing that the reply to official memorandum, Financial, No. 1477, dated 26th June, was forwarded through the Examiner of Public Works Accounts, as directed, on the 22nd July.

ORDER—dated 23rd August 1895, No. 609 Financial.

The revised estimates of expenditure on *Construction works* of the Madras Harbour for 1895–96 will be forwarded to the Government of India.

2. The position, as now brought out by the Engineer, would appear to be as follows :—

As compared with sanctioned estimates.

	LAKHS.
Revised estimate of restoration works..	64·79
Sanctioned estimates of loans from Government	61·06
Excess now required	3·73
Deduct amount of ultimate recoveries..	2·81
Net amount to be eventually provided by the Board	·92

As compared with past actuals.

	LAKHS.
Revised estimate of restoration works..	64·79
Outlay up to 31st March 1895 ..	59·87
Additional amount required	4·92
Deduct value of materials at site not included in the estimates	·37
	4·55
Deduct amount already sanctioned by the Government of India	·82
Net amount required ..	3·73

3. It is understood that, as the recoveries will not be effected till after the completion of the works and as so large a sum as 3·73 lakhs cannot be conveniently provided from the Revenue account, the Harbour Trust Board will have to borrow the amount from Government, and the following telegram will accordingly be despatched to the Government of India, Finance and Commerce Department :—

"Your letter, 27th April 1895, No. 1970 A. The Harbour Trust Board require an additional loan of three lakhs seventy-three thousands during current year. Revised estimates follow."

(True Extract).

Chief Secretary.

To the Chairman, Harbour Trust Board.
" Public Works Department.
" Marine Department.
" Accountant-General.

ENDORSEMENT—dated 23rd August 1895, No. 610 Financial.

Copy to the Government of India, Finance and Commerce Department.

Chief Secretary.

Revised 96 Mels

Harbour Trust Board

H.M.

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