

(1) Number of pages_____

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MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	3107	Press
B.P. No.		Mis.
Dated	20-11	6876
		—195—

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
20th November 1876. No. 3,107.*

No. 351. Read the following letter from F. N. THOROWGOOD, Esq., Superintendent, Madras Harbour Works, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 15th November 1876, No. 85-W:—

With reference to my letter, No. 82-W, dated 31st ultimo, respecting the progress of these works during the month of October, I have now the honor to annex a statement of the monthly expenditure.

2. This statement being arranged in a somewhat different form from previous statements has taken a longer time in preparation, but this will not be the case in future.

3. In this statement I have divided the expenditure into a greater number of heads, and I hope that by doing this I have been able to show more clearly what the particulars of expenditure are.

4. In Mr. Parkes' estimate he divided the surf bank from the rubble base, and I have done so in this statement for the first time. I have also separated the making of concrete blocks from the setting of them, thus being able to show the amount expended on concrete blocks from time to time before they are placed in the pier. If the cost of the blocks was only shown as they are set in the pier complete, I should not be able to show any expenditure on them that could be compared with the estimate until they were set in their permanent position.

5. It will be observed that the present form of statement of expenditure, although different from previous forms, still keeps to the heads of the estimate approved by Government.

Outlay on Madras Harbour Works up to 31st October 1876.

Head of Estimate.	Cost for September 1876.	Cost for October 1876.	Cost to end of October 1876.	Total Cost.	Estimate.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.
<i>Preliminary Works.</i>					
Detailed survey	205 2 4	241 0 9	1,493 0 10	3,294 12 5	5,000
Marine do.	331 6 0	1,470 5 7	1,801 11 7		
Railways—					
Rails, &c., from England ..	38,251 1 4	4,858 0 9	38,251 1 4	1,08,947 4 9	1,50,000
Sleepers	4,929 3 1	11,631 1 6	32,225 4 11		
Formation	677 10 10	1,375 14 1	38,470 14 6		10,000
Opening quarries		6,882 11 5	18,673 9 4	18,673 9 4	65,000
Preparing block ground ..	3,455 4 6				45,000
Jetties for shipping rubble stone ..					30,000
Land					
<i>CONSTRUCTION OF PIERS.</i>					
<i>North Pier.</i>					
Surf bank	10,160 9 2	20,136 1 10	1,53,786 11 8	1,53,786 11 8	2,37,180
Rubble base (a)	592 8 4	958 2 1	5,631 11 10	5,631 11 10	4,82,680
Extra rubble for bank (if needed) (b) ..		1,589 8 0	1,770 6 10	1,770 5 10	1,00,000
Concrete blocks—					
Making	2,875 5 3	15,214 4 8	19,988 12 6	19,988 12 6	10,00,500
Setting					3,06,500
Light-house					30,000
<i>South Pier.</i>					
Surf bank		677 11 7	4,447 1 3	4,447 1 3	2,37,180
Rubble base (a)	957 14 0				4,82,680
Extra rubble for bank (if needed) ..					1,00,000
Concrete blocks—					
Making					10,00,500
Setting					3,06,500
Light-house					30,000
Buildings	5,521 1 10	5,118 6 7	23,861 9 9	23,861 9 9	75,000

NOTE.—(a) For current expenses on Steam Hoppers as well as work done by Masula Boats.
(b) The surf bank is now extended to a little beyond its proposed limit and further expenditure on it will not be great.

*Proceedings of the Madras Government, Public Works Department,
20th November 1876. No. 3,107.*

Outlay on Madras Harbour Works up to 31st October 1876—(Continued).

Plant.
 Locomotive engines
 Rolling stock
 Floating plant
 Machinery
 Quarry and general tools
 Buoys and beacons
 Office furniture
Establishment.
 Salaries
 Office contingencies
 Travelling allowances
 Medical
Contingencies at 5 per cent. on Total Estimate.
 Prince of Wales' visit and other contingencies
 Protecting north beach
 Total ..

Head of Estimate.	Cost for September 1876.			Cost for October 1876.			Cost to end of October 1876.			Total Cost.	Estimate.	
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
Locomotive engines	26	11	0	215	11	0	1,040	5	9	1,040	5	9
Rolling stock				23	13	10	2,638	11	3	2,638	11	3
Floating plant	1,08,536	7	6				1,11,881	5	8	1,11,881	5	8
Machinery	89,945	12	0	6,616	14	6	1,30,116	15	2	1,30,116	15	2
Quarry and general tools ..	2,342	13	3	971	12	5	10,931	14	6	10,931	14	6
Buoys and beacons							651	5	7	651	5	7
Office furniture	43	9	0	178	0	6	1,923	3	6	1,923	3	6
Salaries	2,758	0	0	7,678	13	2	48,546	5	11	55,821	12	5
Office contingencies	62	8	10	203	11	8	940	11	6			
Travelling allowances	261	7	0	1,961	7	6	6,324	1	0			
Medical							10	10	0			
Contingencies at 5 per cent. on Total Estimate.												
Prince of Wales' visit and other contingencies	236	5	1	130	8	3	9,399	7	7	14,794	12	8
Protecting north beach	1,002	4	10	367	9	4	5,395	5	1			
Total ..	2,82,174	1	2	87,125	12	10	6,72,078	3	11	6,72,078	3	11

MADRAS

MADRAS,
15th November 1876.

(Signed) F. N. THOROWGOOD,
Superintendent, Madras Harbour Works.

No. 352.

ORDER THEREON, 20th November 1876, No. 3,107.

CIVIL WORKS, No. 24-A.

RECORDED.

2. The further sub-division of the heads of expenditure is approved.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the Superintendent, Harbour Works.
" Examiner of Public Works Accounts.

Exd. E. C. Shunker.

Spare Copies

Outlay on Madras Harbour Works up to 31st October 1876.

Head of Estimates

	Cost for September 1876.	Cost for October 1876.	Cost for October 1876.	Total Cost	Estimated
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Provisionary Works

Detailed survey	205 2 4	241 " 9	1493 " 10	} 3294 12 5	5000
Main survey	331 6 "	1470 5 7	1801 11 7		
Railways					
Made free from England	38257 1 4.	" " "	38257 1 4		
Repairs	4929 3 1	4838 " 9	32225 4 11	} 108947 4 9	150000
Stationaries	677 10 10	11631 1 5	38470 11 6		
Opening Quarries	" " "	" " "	1875 14 1	1875 14 1	10000
Establishing Works Ground	3455 4 6.	6882 11 5	18673 9 4.	18673 9 4.	65000
Getting for shipping Rattle stone	" " "	" " "	" " "	" " "	1,5000

Land

Construction of Pier North Pier

Surf tank	19160 9 2	20136 1 10	153786 11 8	153786 11 8	237180
Rubble space	592 8 4	968 2 1	5631 11 10.	5631 11 10.	482680 }
Extra Rubble for bank (if needed)	" " "	1589 8 "	1770 5 10.	1770 5 10.	100000 }

Concrete Blocks

Making	2876 5 3	15214 4 8.	19988 12 6.	19988 12 6	1000500 - }
Setting	" " "	" " "	" " "	" " "	304500 - }
Lighthouse	" " "	" " "	" " "	" " "	30000.
South Pier	" " "	" " "	" " "	" " "	

Surf bank	" " "	" " "	" " "	" " "	237180.
(a) Rubble space	957 14 "	677 11 7	4447 1 3	4447 1 3	482680 }
Extra Rubble for bank (if needed)	" " "	" " "	" " "	" " "	100000 }

Lighthouse	" " "	" " "	" " "	" " "	1000500 - }
Setting	" " "	" " "	" " "	" " "	304500 }
Lighthouse	" " "	" " "	" " "	" " "	30000

Buildings	5521 1 10.	5118 6 7	23661 9 7.	23661 9 7.	75000
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Plant

Locomotive Engines	26 11 "	215 11 "	1940 5 9	1940 5 9.	60000
Milling Mills	" " "	23 13 10	2638 11 3	2638 11 3.	35000
Hoisting Plant	105536 7 6	" " "	111881 5 8	111881 5 8.	145000
Machinery	8945 12 "	6616 11 6	130116 15 2	130116 15 2	125000
Quarry and General Mols	2342 13 3	971 12 5	10931 14 6	10931 14 6.	50000
Boys and General Mols	" " "	" " "	657 5 7	657 5 7	3000
Office Furniture	43 9 "	178 " 6.	1923 3 6.	1923 3 6.	2000

Carried forward 277053 7 5 70783 10 11 601461 10 10 601461 10 10

Head of Estimate

Cost for Cost for Cost to
September October end of
1876 1876 1876

Estimate

Brought forward 277853 7 5 76783 10 11 601461 10 10 601461 10 10

Establishment

Salaries 2758 " " 7678 13 2 48546 5 11

Office contingencies 62 8 10 203 11 8 940 11 6 55821 12 5

Travelling Allowances 261 7 " 1961 7 6 6324 1 " 55821 12 5

Medical " " " " " 10 10

Contingencies at 5 per cent on total estimate

Price of Stores, outfit and other contingencies 236 5 1 130 8 3 9399 7 7 24194 12 8

Protecting North Beach 1002 4 10 367 9 4 5395 5 1 24194 12 8

Total 282074 1 2 87125 12 10 672078 3 11 672078 3 11

13-11-76

Note

- (a) For current expenses on Steam Hoppers as well as work done by Masula boats.
- (b) The surf bank is now extended to a little beyond its proposed limit and further expenditure on it will not be required.

Madras
15th November 1876

J. W. Greenwood
Superintendent

P.W.D.
15 NOV 76
No. 5285

No. 557 V.

From

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS,

To Major General G. W. Walker, R. E.
Secretary to Government,
Public Works Department,
Fort St. George, 15th November 1876.
MADRAS,

SIR,

With reference to my letter A. 52 V. dated 31st Ulline, respecting the progress of these works during the month of October, I have now the honour to annex a statement of the monthly expenditure.

2. This statement, being arranged in a somewhat different form from previous statements has taken a longer time in preparation, but this will not be the case in future.

3. In this statement I have divided the expenditure into a greater number of heads, and I hope that by doing this I have been able to show more clearly what the particulars of expenditure are.

4. In Mr. Parkes' estimate he divided the surf bank from the rubble base, and I have done so in this statement for the

first time. I have also separated the making of concrete blocks from the setting of them, thus being able to show the amount expended on concrete blocks from time to time before they are placed in the Pier. If the cost of the blocks was only shown as they are set in the pier complete, I should not be able to show any expenditure on them that could be compared with the estimate until they were set in their permanent position.

5. It will be observed that the present form of statement of expenditure, although different from previous forms still keeps to the heads of the estimate approved by Government.

I have the honor to be
 Sir
 Your most Obedient Servant
 J. N. Harbord
 Superintendent
 Madras Harbour Works

4026-1-76 to 206.
 " 21-10-76 - 2813.

From
 The Superintendent.
 Madras Harbour Works
 To
 The Secretary to Government
 Public Works Department
 Fort St George

Dated 15th
 Recd } November 1896

Submits statement of
 Expenditure on the Harbour
 Works for October 1896.
 No. 3107 of 20th Nov 96
 Recorded.

2 The further Sub Division
 of the Heads
 of Expenditure is
 approved.

C.M.W.

No 357/52

The Super Harbour Works
 Ex of P.W.D.
 Dated - 29-11-96

16-11-96.

508
80-85
Gobi. of 1876 Madras.

PUBLIC WORKS.

To
The Lt. Col. Madras Harbour Works

Dated

Issued

Recd

Encl.

G. O. 20th Sept 1876, No. 3107

Nos.

Expenditure on the Madras
Harbour Works for 1876 -
1876 - statement of -
submitted with Comptroller