

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	191	(14)	Press ~~Mis.~~
Dated	4-6-	1877.	

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

4th June 1877, No. 191 W.

Buildings and Roads.

Civil Works.

Read the following paper :—

No. 29. From F. N. THOROWGOOD, Esq., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, Buildings and Roads, dated Madras, 26th May 1877, No. 16 W.

In continuation of my letter, No. 13 W, dated 30th April 1877, reporting the progress of these works during the month of April 1877, I have now the honor to enclose a statement showing the expenditure on the works to the end of the same period.

Outlay on Madras Harbour up to 30th April 1877.

Heads of Estimate.	Cost for March 1877.	Cost for April 1877.	Total Cost to end of April 1877.	Total Cost.	Estimate.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.
PRELIMINARY WORKS.					
Detailed survey	106 5 4	159 6 4	2,172 13 5	2,172 13 5	5,000
Marine survey	321 9 8	597 16 6	3,474 4 8	3,474 4 8	
Railways—					
Rails, &c., from England .. ..	.. ..	.. ..	38,251 1 4	.. ..	1,50,000
Sleepers .. ..	.. ..	698 14 2	38,061 0 7	1,31,715 1 3	
Formation	2,920 1 3	1,734 6 8	55,402 15 4	.. ..	
Opening quarries .. ..	.. ..	.. ..	1,878 8 4	1,878 8 4	
Preparing block ground	471 14 0	260 0 5	30,283 7 4	30,283 7 4	65,000
Jetties for shipping rubble stone .. ..	.. ..	.. ..	.. ..	.. ..	45,000
Land .. ..	.. ..	.. ..	.. ..	.. ..	30,000
CONSTRUCTION OF PIERS.					
<i>North Pier.</i>					
Surf bank .. ..	.. ..	.. ..	1,72,890 2 4	1,72,890 2 4	2,37,180
Rubble base (a)	4,487 2 8	2,748 5 7	21,037 3 8	21,037 3 8	4,82,680
Extra rubble for bank (if needed) .. ..	.. ..	.. ..	1,770 5 10	1,770 5 10	1,00,000
Concrete blocks—					
Making	20,165 7 5	6,118 0 10	1,09,602 13 2	1,09,602 13 2	10,00,500
Setting	1,643 2 0	1,677 13 0	11,502 14 3	11,502 14 3	3,06,500
Light-house .. ..	.. ..	.. ..	.. ..	.. ..	30,000
Buildings	524 9 3	895 0 0	31,959 9 5	31,959 9 5	75,000
<i>South Pier.</i>					
Surf bank	4,571 14 1	11,511 12 0	19,119 1 10	19,119 1 10	2,37,180
Rubble base (a)	513 5 3	1,503 9 4	9,505 14 10	9,505 14 10	4,82,680
Extra rubble for bank (if needed) .. ..	.. ..	.. ..	.. ..	.. ..	1,00,000
Concrete blocks—					
Making (b) .. ..	.. ..	.. ..	59 4 0	59 4 0	10,00,500
Setting (c) .. ..	.. ..	.. ..	242 12 1	242 12 1	3,06,500
Light-house .. ..	.. ..	.. ..	.. ..	.. ..	30,000

- (a). For current expenses on Steam Hoppers, as well as work done by Masula Boats and for stone quarried at Ambatoor ready for depositing in the sea.
 (b). Half the cost for advertising for cement for blockmaking is charged to the South Pier.
 (c). Half the passage money of the Foreman Diver is charged against the South Pier.

Outlay on Madras Harbour up to 30th April 1877.—(Continued).

Heads of Estimate.	Cost for March 1877.	Cost for April 1877.	Total Cost to end of April 1877.	Total Cost.	Estimate.
PLANT.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.
Locomotive engines	34 0 0	.. ..	1,102 6 6	1,102 6 6	60,000
Rolling stock	202 15 8	99 2 5	11,109 1 1	11,109 1 1	35,000
Floating plant .. ..	.. ..	1,000 12 0	1,19,009 8 0	1,19,009 8 0	1,45,000
Machinery	1,516 7 9	1,180 15 9	1,67,477 2 5	1,67,477 2 5	1,25,000
Quarry and General tools	308 2 0	668 10 9	13,138 7 4	13,138 7 4	50,000
Buoys and Beacons .. ..	.. ..	.. ..	651 5 7	651 5 7	3,000
Office furniture	53 0 0	90 13 5	2,431 7 2	2,431 7 2	2,000
ESTABLISHMENT.					
Salaries	2,923 7 6	2,805 7 5	69,895 1 7	78,548 3 3	2,45,690
Office contingencies	117 15 3	28 5 6	1,421 1 11		
Travelling allowances	100 0 0	223 14 0	7,180 13 9		
Medical .. ..	.. ..	25 8 0	51 2 0		
CONTINGENCIES AT 5 PER CENT. ON TOTAL ESTIMATE.					
Prince of Wales' visit and other con- tingencies	102 9 10	87 7 0	9,974 7 0	17,839 7 9	2,45,690
Protecting north beach .. ..	.. ..	.. ..	7,865 0 9		
Total	41,084 0 11	34,173 4 1	9,58,521 5 6	9,58,521 5 6	
Material at site (a) .. ..	.. ..	.. ..	23,422 7 0	.. ..	

(a). This item will be adjusted in the Supplemental Accounts for March 1877 by distribution to the heads of estimate concerned.

MADRAS,
25th May 1877.

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

No. 30.

ORDER THEREON, 4th June 1877, No. 191 W.

RECORDED in continuation of G.O., No. 170 W, dated the 30th May 1877.

(True Extract.)

Colonel. R.E.
Secretary to Government, P.W.D.

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

Exd. T. O'Connor.

Spare Copies

No. 161v

From

THE SUPERINTENDENT,

MADRAS HARBOUR WORKS,

To

Colonel E. A. Ford, M.C.
Secretary to Government P.W.D.
Roads & Buildings Branch,
Fort St. George,
MADRAS, 26th May 1877.

SIR,

In continuation of my letter No. 151v,
dated 30th April 1877, reporting the progress of
these works during the month of April 1877,
I have now the honor to enclose a statement
showing the expenditure on the works to
the end of the same period.

I have the honor to be,

Sir,

Your most Obedient Servant,

F. N. Thorowgood
Superintendent
Madras Harbour Works
per 1877/13.

Roads & Buildings

P.W.D.

88 MAY 27

NO 5286

From

Superintendent

Madras Harbour Works

No. 16 m

Date 26th May 1877

No of Enclosures one
No 191 to 194 from 1877
Recorded in
Cont. of J. No 170 dated
11th 30th May 1877.

27-5/77

Expenditure for April 1877

Form as statement showing

4th 11th June 77 J. B. 29

Supt. M. H. Works
P. W. D.

Per 1-6-77

5946

Sept. of 1877

PUBLIC WORKS.

To The Supt. of P. Works.

Dated .

Issued

Recd.

Encl.

G. O. 4th June 1877, No. 191 W.

Nov. 29-30

Madras Harbour Works
Statement of Expenditure
on the — up to 30th April
1877 recorded