

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 765 (W) Press
Mis.

Dated 22-9-1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

22nd September 1877, No. 765 W.

Buildings and Roads,

Civil Works.

Read the following paper :—

No. 169. From F. N. THOROWGOOD, Esq., Superintendent of the Madras Harbour Works, to the Secretary to Government, Public Works Department, dated Madras, 18th September 1877, No. 46 W.

WITH reference to my letter, No. 42 W, dated 3rd instant, reporting the progress of these works to the end of the month of August 1877, I have now the honor to forward a statement showing the expenditure on these works to the end of the same period.

Outlay on Madras Harbour Works up to 31st August 1877.

Heads of Estimate.	Cost for July 1877.	Cost for August 1877.	Total Cost to end of August 1877.	Total Cost.	Estimate.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.
<i>Preliminary Works.</i>					
Detailed survey	112 4 11	104 2 3	3,061 13 1	7,450 7 4	5,000
Marine survey	60 3 10	47 7 0	4,388 10 8		
<i>Railways.</i>					
Rails, &c., from England	2,111 10 7	..	1,38,196 15 8	2,41,851 3 2	150,000
Sleepers	..	..	39,385 7 5		
Formation	1,705 6 8	8,648 13 3	64,268 12 1	2,150 15 0	10,000
Opening quarries	..	17 8 0	2,150 15 0		
Preparing block ground	641 9 5	6,241 11 6	39,621 0 7	39,621 0 7	65,000
Jetties for shipping rubble stone	..	..	..	..	45,000
Land	..	..	..	..	30,000
Buildings	2,283 13 3	2,801 7 8	47,443 5 5	47,443 5 5	75,000
<i>CONSTRUCTION OF PIERS.</i>					
<i>North Pier.</i>					
Surf bank	..	113 9 2	1,74,767 2 0	1,74,767 2 0	2,37,180
Rubble base (a)	3,786 9 2	7,302 6 11	35,324 12 5	35,324 12 5	4,82,680
Extra rubble for bank (if needed)	..	..	1,770 5 10	1,770 5 10	1,00,000
<i>Concrete Blocks.</i>					
Making	2,754 10 11	20,122 5 6	1,43,978 7 6	1,43,978 7 6	10,00,500
Setting	1,378 0 8	1,754 10 11	18,655 4 11	18,655 4 11	3,06,500
Light-house	..	..	..	..	30,000
<i>South Pier.</i>					
Surf bank	3,677 5 9	10,498 0 5	45,469 6 2	45,469 6 2	2,37,180
Rubble base (a)	1,301 0 3	801 2 3	13,791 0 2	13,791 0 2	4,82,680
Extra rubble for bank (if needed)	..	..	..	..	1,00,000
<i>Concrete Blocks.</i>					
Making	..	..	59 4 0	59 4 0	10,00,500
Setting	..	..	242 12 1	242 12 1	3,06,500
Light-house	..	..	..	..	30,000

NOTE.—(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.

Outlay on Madras Harbour Works up to 31st August 1877—(Continued).

Heads of Estimate.	Cost for July 1877.	Cost for August 1877.	Total Cost to end of August 1877.	Total Cost.	Estimate.
<i>Plant.</i>	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.
Locomotive engines	226 4 6	240 11 2	43,165 7 8	43,165 7 8	60,000
Rolling stock	65 0 8	21 15 0	11,630 13 7	11,630 13 7	35,000
Floating plant	581 1 0	.. ..	1,32,915 4 0	1,32,215 4 0	1,45,000
Machinery	1,306 3 4	48,304 5 2	2,37,603 0 3	2,37,603 0 3	1,25,000
Quarry and general tools	474 12 0	275 13 5	20,219 2 11	20,219 2 11	50,000
Buoys and beacons .. ..	.. ..	0 10 0	651 15 7	651 15 7	3,000
Office furniture	27 0 0	11 13 0	3,012 15 9	3,012 15 9	2,000
<i>Establishment.</i>					
Salaries	4,351 14 10	4,231 6 8	90,105 14 5	.. ..	.. ..
Office contingencies	10 10 0	7 2 6	1,512 3 5	.. ..	.. ..
Travelling allowances	70 0 0	201 4 6	17,246 5 2	1,08,945 9 0	2,45,600
Medical	20 0 0	10 0 0	81 2 0	.. ..	.. ..
<i>Contingencies at 5 per cent. on Total Estimate.</i>					
Prince of Wales' visit and other contingencies	259 0 0	324 5 8	11,215 12 10	10,030 13 7	2,45,690
Protecting the north beach .. ..	.. ..	.. ..	7,865 0 9	.. ..	.. ..
Materials at site	27,204 9 9	107,082 11 11	13,49,800 8 11	13,49,800 8 11	.. ..
	.. ..	.. ..	9,188 8 0	9,188 8 0	.. ..
Total	27,204 9 9	107,082 11 11	13,58,989 0 11	13,58,989 0 11	.. ..

MADRAS,
18th September 1877.(Signed) F. N. THOROWGOOD,
Superintendent, Madras Harbour Works.

No. 170. ORDER THEREON, 22nd September 1877, No. 765 W.

RECORDED, in continuation of G.O., No. 706 W, dated 8th September 1877.

2. This statement should in future be submitted to Government with the progress report or as soon after it as is practicable.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.To the Superintendent, Madras Harbour Works.
" Examiner of Public Works Accounts.

<i>Materials at site</i>	27,204 9 9	107,082 11 11	13,49,800 8 11	13,49,800 8 11	27,204 9 9	107,082 11 11	13,49,800 8 11	13,49,800 8 11	27,204 9 9	107,082 11 11	13,49,800 8 11	13,49,800 8 11
<i>Salaries</i>	4,351 14 10	4,231 6 8	90,105 14 5	90,105 14 5	4,351 14 10	4,231 6 8	90,105 14 5	90,105 14 5	4,351 14 10	4,231 6 8	90,105 14 5	90,105 14 5
<i>Office contingencies</i>	10 10 0	7 2 6	1,512 3 5	1,512 3 5	10 10 0	7 2 6	1,512 3 5	1,512 3 5	10 10 0	7 2 6	1,512 3 5	1,512 3 5
<i>Travelling allowances</i>	70 0 0	201 4 6	17,246 5 2	17,246 5 2	70 0 0	201 4 6	17,246 5 2	17,246 5 2	70 0 0	201 4 6	17,246 5 2	17,246 5 2
<i>Medical</i>	20 0 0	10 0 0	81 2 0	81 2 0	20 0 0	10 0 0	81 2 0	81 2 0	20 0 0	10 0 0	81 2 0	81 2 0
<i>Prince of Wales visit and other contingencies</i>	259 0 0	324 5 8	11,215 12 10	11,215 12 10	259 0 0	324 5 8	11,215 12 10	11,215 12 10	259 0 0	324 5 8	11,215 12 10	11,215 12 10
<i>Protecting the north beach</i>	.. ..	.. ..	7,865 0 9	7,865 0 9	.. ..	.. ..	7,865 0 9	7,865 0 9	.. ..	.. ..	7,865 0 9	7,865 0 9
<i>Materials at site</i>	27,204 9 9	107,082 11 11	13,49,800 8 11	13,49,800 8 11	27,204 9 9	107,082 11 11	13,49,800 8 11	13,49,800 8 11	27,204 9 9	107,082 11 11	13,49,800 8 11	13,49,800 8 11
<i>Total</i>	27,204 9 9	107,082 11 11	13,58,989 0 11	13,58,989 0 11	27,204 9 9	107,082 11 11	13,58,989 0 11	13,58,989 0 11	27,204 9 9	107,082 11 11	13,58,989 0 11	13,58,989 0 11

Colonel, R.E.

Outlay, on Madras Harbor Works up to 31st August 1877

Heads of Estimate	Cost for July 1877	Cost for August 1877	Total Cost to end of August 1877	Total Cost.	Estimate.
<u>Preliminary Works.</u>					
Detailed Survey	112 4 11	104 2 3	3061 13 1	7 4 } 5000.	
Triangulation Survey	60 3 10	47 7	4388 10 3		
<u>Reconnaissance</u>					
Railway from England	2111 10 7	" "	138196 15 8	3 2 } 150,000.	
Ships	" "	" "	39105 7 5		
Formation	1705 6 8	3648 13 3	64,280 12 1	15 10,000	
Opening Quarries	" "	17 8	2150 15		
Preparing Black Ground	641 9 5	6241 11 6	39,621 7 2	7 65,000	
Fetties for shipping Rubble &c	" "	" "	" "	" "	45,000
Land	" "	" "	" "	" "	30,000
Buildings	2283 13 3	2801 7 8	47443 5 5	6 5 75,000	
<u>Construction of Pier</u>					
<u>North Pier</u>					
Surf Bank	" "	113 9 2	174717 2	2 23,4120	
Rubble Base	3706 9 2	7303 6 11	35324 12 5	12 8 4,82,680	
Extra Rubble for Bank (found)	" "	" "	1770 5 10	5 10 1,00,000	
<u>Concrete Blocks</u>					
Trucking ..	2754 10 11	20122 5 6	103978 7 6	7 6 100,000	
Setting ..	1378 8	1754 10 11	10685 4 11	4 11 30,510	
Light house	" "	" "	" "	" "	30,000
Surf Bank	3677 5 9	10498 5	45269 6 2	6 2 2,34,180	
(a) Rubble Base	1301 3	801 2 3	13791 2	2 4,82,680	
Extra Rubble for Bank (found)	" "	" "	" "	1,00,000	
<u>Concrete Blocks</u>					
Trucking ..	" "	" "	59 4	4 10,00,500	
Setting ..	" "	" "	242 12 1	12 1 3,06,500	
Light house	" "	" "	" "	" "	30,000
Locomotive Engines	226 4 6	240 11 2	43165 7 8	7 8 6,000	
Rolling stock	165 8	21 15	11,630 13 4	13 7 35,000	
Floating Plant	581 1	" "	132915 4	4 1,45,000	
Machinery	1306 3 4	48304 5 2	237603 3	3 1,25,000	
Quarry and General Tools	474 12	245 13 8	20219 2 11	2 11 50,000	
Tools and Benches	" "	" "	657 15 7	15 7 3,000	
Office Furniture	24	11 13	3012 15 9	15 9 2,000	
Carried over	22493	11 102308 8 7	1221774 2 4	2 4	

1877

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about

rod.

work

No. 146 W.

From

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS.

To

Colonel C. A. Ford, P. E.
Secretary to Government P.W.D.
Roads & Buildings Branch
MADRAS, 15 September 1877.

SIR,

With reference to my letter No. 142 W,
dated 3rd instant, reporting the progress of these
works to the end of the month of August 1877,
I have now the honor to forward a state-
ment showing the expenditure on these works
to the end of the same period. -

I have the honor to be,
Sir,

Your most Obedient Servant

F. H. Thoroughgood.
Superintendent
Madras Harbour Works

91/159

Madras
10th September 1877

Note for current expenses on Steam Heliograph as well as work done by
Smeatland boats and for some quantities of materials ready for depositing
in the acc.

F. H. Thoroughgood.
Superintendent
Mr. H. Woods

Recd 22nd Sept 1877

B. & N. Charles.

127658722 Sept 1877
Recorded in letter
of G.O. No. 706 W
dated 8th Sept. 1877.

2. This statement should
in future be submitted
to Government with the
progress report, or
as soon after it
as is practicable.

907-20/9

Roads & Buildings.

From
The Superintendent
Madras Harbour Works

M.B.V.
Dated 18th September 1877

No. of Enclosures 1 ✓

1222 Sept 1877 No. 169

G.O. No. 14 March 1876 No 663.
" 8th Sept 1877 No 706 W.

Spt. N. S. Parkes
P. W. A. ✓ 5
Dec 28/9/77 11

Expenditure

Herwards statement showing
Expenditure for the month of
August 1877.

With order

Aug 152

Supt. of 1877 Madras
PUBLIC WORKS.

To

Supt. Harbour.

Dated

Issued

Recd.

Encl.

G. O. 22nd Sept 1877, No. 765W

Nos. 169-170

Madras Harbour Works
Statement of expenditure
on the — for the month
of August 1877. recorded
with remarks.

Int. Secy.
29.9.77