Archives I—10,006—6-10-76.

(1) Number of pages 16
(2) Date of repair 13—10—86
(3) Initials of the Referencer long

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W DEPARTMENT

G.O. No.
B.P. No. 4490 W Press.
Mis.

Dated 25-11-1878 ~~191~~.

Not to be folded or roughly handled

A.K

4490
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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

25th November 1878, No. 4,490 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 276. From F. N. THOROWGOOD, Esq., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, Buildings and Roads, dated Madras, 20th November 1878, No. 48 W.

I HAVE the honor now to forward the statement of expenditure on these works for the month of October 1878.

2. I regret that this statement should be sent in at so late a date, but the delay has been caused by the great amount of time required to work out the value of all the stores issued to the works in a form approved by the Examiner of Public Works Accounts.

3. I have written to the Examiner asking that a simplification which I propose may receive his approval, but have not yet had a reply.

Outlay on Madras Harbour Works up to 31st October 1878.

Heads of Estimate.	Cost for September 1878.	Cost for October 1878.	Cost to end of October 1878.	Total Cost.	Estimate.	Remarks.
PRELIMINARY WORKS.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
Detailed survey, taking sections, soundings, &c., &c.	82 6 0	81 7 0	4,442 8 6	10,586 14 3	6,000	
Marine survey ..	36 6 2	225 10 4	6,144 5 9			
Railways—						
Rails from England.	..	..	1,38,698 14 11	2,47,104 14 5	1,50,000	Expenditure under the head of "Railways" is unavoidably resumed, owing to the construction of the line to South Pier block-ground, and the extension of Umbathoor quarries.
Sleepers	..	..	39,385 7 5			
Formation ..	..	..	68,187 0 7			
Materials purchased from Madras Railway Company.	..	833 7 6	833 7 6			
Opening quarries ..	0 10 9	..	2,432 14 8	2,432 14 8	10,000	
Preparing block-ground.	494 11 11	2,902 15 5	47,934 14 10	47,934 14 10	65,000	
Jetties for loading stone.	55 7 4	5 0 0	60 7 4	60 7 4	45,000	
Buildings	1,166 1 2	791 8 0	61,096 4 3	61,096 4 3	75,000	
Land	..	..	1,220 6 4	1,220 6 4	30,000	
PLANT.						
Locomotive engines ..	63 13 0	7 9 0	44,401 3 8	44,401 3 8	60,000	
Rolling stock ..	938 2 8	1,236 15 11	19,234 15 2	19,234 15 2	35,000	
Floating plant ..	583 6 4	1,034 4 7	1,42,372 12 3	1,42,372 12 3	1,45,000	
Machinery, cranes, &c.	29 10 8	23 15 5	2,66,599 1 8	2,66,599 1 8	1,25,000	
Quarry and general tools.	492 7 1	213 6 3	32,663 14 3	32,663 14 3	50,000	
Recovery ..	90 11 6	0 2 0	..	..	..	
Buoys and beacons ..	..	..	716 [illegible] 9	716 10 9	8,000	
Office furniture ..	..	27 12 0	4,907 1 9	4,907 1 9	2,000	

Outlay on Madras Harbour Works up to 31st October 1878—continued.

Heads of Estimate.	Cost for September 1878.	Cost for October 1878.	Cost to end of October 1878.	Total Cost.	Estimate.	Remarks.
CONSTRUCTION OF PIERS.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
North Pier.						
Surf bank	..	..	1,74,815 14 11	1,74,815 14 11	2,37,180	
Rubble base	15,034 11 2	13,353 7 10	1,19,293 13 8	1,19,293 13 8	4,82,680	
Recovery ..	..	77 0 0	..	..	..	
Concrete block setting ..	2,811 14 1	3,081 2 3	54,584 2 8	54,584 2 8	3,06,500	
Light-house	..	..	..	..	30,000	
Extra rubble	..	..	1,770 5 10	1,770 5 10	1,00,000	
South Pier.						
Surf bank	..	1,052 6 3	67,327 9 3	67,327 9 3	2,37,180	The charge against the surf bank in October consists in expenditure on diverting the drain through the bank.
Rubble base	10,035 12 7	6,025 10 1	1,01,440 6 2	1,01,440 6 2	4,82,680	
Concrete block setting ..	1,816 11 2	2,216 6 1	23,811 7 8	23,811 7 8	3,06,500	
Light-house	..	..	..	..	30,000	
Extra rubble	..	..	..	..	1,00,000	
Concrete block making for North and South Piers.	28,598 7 8	27,950 13 6	4,66,800 8 3	4,66,800 8 3	20,01,000	
Recovery ..	21 4 6	19 10 0	..	..	..	
ESTABLISHMENT.						
Salaries	2,825 2 6	2,851 7 7	1,40,726 4 6	1,63,957 15 0	2,45,690	
Office contingencies ..	9 7 3	104 5 6	2,446 8 8			
Travelling allowances ..	282 14 1	209 12 4	20,531 13 5			
Medical	64 8 0	4 8 0	253 4 5			
Recovery ..	..	4 8 0	..	..	..	
CONTINGENCIES.						
Protective works north of Harbour.	1,801 0 9	2,542 10 3	14,660 1 9	35,181 8 0	2,45,690	
Recovery ..	0 10 0	..	..			
Other contingencies ..	698 2 11	476 15 0	20,521 6 3			
Recovery ..	5 8 0	60 5 4	..	..		
Maintenance	..	..	..	..	2,45,690	
	67,810 13 3	67,091 14 9	20,89,416 3 0	20,89,416 3 0	..	
VALUE OF MATERIALS AT SITE.						
Materials at site for specific works.	..	..	6,349 15 1	6,349 15 1	..	
English Portland Cement and other General Stores on Stock.	7,279 7 11	7,098 15 6	1,16,094 12 4	1,16,094 12 4	..	
Total ..	75,090 5 2	74,190 12 3	22,11,860 14 5	22,11,860 14 5	..	

MADRAS,
20th November 1878.

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

No. 277. ORDER THEREON, 25th November 1878, No. 4,490 W.

ORDERED to be recorded.

(True Extract.)

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

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

Exd, C. Howarth.
Spare Copies

4490
2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1878) Madras.

PUBLIC WORKS.

To

The Superintendent,
Madras Harbour Works,
&c. &c. &c.

Dated November 25th.

Issued.

Recd.

G. O., 25th November 1878, No. 4,490 W.

NOVEMBER

Nos. 276-277.

Madras Harbour Works.—Statement of expenditure on the — for October 1878, recorded.

No. 48 W.

4490/3

From

The SUPERINTENDENT,
MADRAS HARBOUR WORKS,

To Colonel E. A. Ford R. E.
Secretary to Government P. W. Dept:
Buildings & Roads,
Fort Saint George

Madras, 20th November 1878.

Sir,

I have the honor now to forward the Statement of Expenditure on these works for the month of October 1878.

1 Enclosure one

2. I regret that this statement should be sent in at so late a date, but the delay has been caused by the great amount of time required to work out the value of all the stores issued to the works in a form approved by the Examiner of Public Works Accounts.

3. I have written to the Examiner asking that a simplification which I propose may receive his approval, but have not yet had a reply.

I have the honor to be
Sir
Your most Obedient Servt
F. W. Morrowgood.
Superintendent
Madras Harbour Works

Proc. No. 4490 W. d/25th Nov/78
Recorded. B&R Branch

EMF 21/11

Buildings & Roads

From

The Superintendent
Madras Harbour Works

No 48 W
Dated 22nd November 1878

No of Enclosures 1

21-10-78 - No 4108 - W

Supt. M. H. Works
P. W. A.
Supt. 18-12-78

Expenditure

Forward Statement of
for October 1878.

With order

Ar 21-11

No 51 W

4490/1

Memorandum

With reference to Memorandum from the Under Secretary to Government No. 5614 dated 13th Instant, the Superintendent of the Harbour Works has the honor to return the fresh proof of the Statement of Expenditure for the month of October 1878, approved.

A duplicate of the original Statement is herewith forwarded.

F. W. Morrowsmith M. Inst. C.E.
Superintendent
Madras Harbour Works

Madras Harbour Works
14th December 1878

To
The Under Secretary to Government
Public Works Department
Fort Saint George

P.W. 1878 (2)

No. 13074

Recd 21st Nov"

a duplicate – the orig. having been mislaid. E.J.*

* [illegible] [illegible] in the Record office 17/11/87

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Outlay on Madras Harbour Works up to 31st October 1878.

Heads of Estimate	Cost for September 1878	Cost for October 1878	Cost to end October 1878	Total cost	Estimate	Remarks
PRELIMINARY WORKS						
Detailed Survey taking section Soundings &ca &ca	82 6 .	81 7 .	4442 8 6	10586 14 3	5000	
Marine Survey	36 6 2	225 10 4	6144 5 9			
Railways						
Rails from England	. . .	. . .	138698 14 11	247104 14 5	1,50,000	Expenditure under the head of "Railways" is unavoidably [illegible] owing to the construction of the lines to Pier block ground, and the extension of Umbathoor quarries.
Sleepers	. . .	. . .	39385 7 5			
Formation	. . .	. . .	68187 . 7			
Materials purchased from M. R. Co	. . .	833 7 6	833 7 6			
Opening Quarries	. 10 9	. . .	2432 14 8	2432 14 8	10,000	
Preparing Block Ground	494 11 11	2902 15 5	47,934 14 10	47934 14 10	65,000	
Jetties for loading stone	55 7 4	5 . .	60 7 4	60 7 4	45,000	
Buildings	1168 1 2	791 8 .	6,096 4 3	6096 4 3	75,000	
Land	. . .	. . .	1220 6 4	1220 6 4	20,000	
PLANT						
Locomotive Engines	63 13 .	7 9 .	44,401 3 8	44401 3 8	60,000	
Rolling Stock	935 2 8	1233 15 11	19,234 15 2	19234 15 2	35,000	
Floating Plant	588 6 4	1034 4 7	142,372 12 3	142372 12 3	145,000	
Machinery Cranes &ca	29 10 8	23 15 5	266599 1 8	266599 1 8	125,000	
Quarry and General Tools	492 7 1	213 6 8	32663 14 3	32663 14 3	50,000	
Buoys and Beacons	. . .	. . .	716 10 9	716 10 9	3,000	
Office Furniture	. . .	27 12 .	4007 1 9	4007 1 9	2000	
CONSTRUCTION OF PIERS						
North Pier						
Surf Bank	. . .	. . .	174815 14 11	174815 14 11	237,180	
Rubble Base	15034 11 2	13353 7 10	119293 13 8	119293 13 8	482,680	
Concrete Blocksetting	2511 14 1	3081 2 8	54584 2 8	54584 2 8	306,500	
Lighthouse	. . .	. . .	. . .	. . .	30,000	
Extra Rubble	. . .	. . .	1770 5 10	1770 5 10	100,000	
South Pier						
Surf Bank	. . .	1052 6 3	67,327 9 3	67327 9 3	237180	The charge against the "Surf Bank" in October consists in expenditure in diverting the drain through the bank
Rubble Base	10035 12 7	6025 10 1	101440 6 2	101440 6 2	482680	
Concrete Blocksetting	1816 11 2	2216 6 1	23811 7 8	23811 7 8	306500	
Light house	. . .	. . .	. . .	. . .	30000	
Extra Rubble	. . .	. . .			100000	
Concrete Block making for N & S Piers	28598 7 8	27950 13 6	466800 8 3	466800 8 3	2201000	
Carried over	62135 11 9	60967 1 6	1890276 12 .	1890276 12 .		

Heads of Estimate	Cost for September 1878	Cost for October 1878	Cost to end of October 1878	Total Cost	Estimate	Remarks
Brought forward	62135 11 9	60967 1 5	1890276 12 -	1890276 12 -		
ESTABLISHMENT						
Salaries	2825 2 6	2851 7 7	140726 4 6	163957 15 -	245690	
Office Contingencies	9 7 3	104 5 6	2446 8 8			
Travelling Allowances	282 14 1	209 12 4	20531 13 5			
Medical	64 8	0 8 -	263 4 5			
CONTINGENCIES						
Protective Works north of Harbour	1801 - 9	2542 10 3	14660 1 9	35181 8 -	245690	
Other Contingencies	698 2 11	476 15 -	20521 6 3			
Maintenance	" " "	" " "	" " "	" " "	245690	
	67810 13 3	67091 14 9	2089416 3 -	2089416 3 -		
VALUE OF MATERIALS AT SITE						
Materials at site for specific Works	" " "	" " "	6349 15 1	6349 15 1		
English Portland Cement and other General Stores on Stock	7279 7 11	7098 13 6	116094 12 4	1,16094 12 4		
Total	75090 5 2	74190 12 3	22,11,860 14 5	22,11,860 14 5		

Madras
20th November 1878

G. H. Thorowgood
Superintendent
M. H. Works.

CA
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Govt. of (1878) Madras.

PUBLIC WORKS.

To

The Supdt. Madras Harbour Works

77-7M

Dated

Issued

Recd.

ol.

G. O. 25 Nov 1878. No. 4490 W

Nos 276 & 277

Madras Harbour Works

Statement of Expenditure on the — for Octr 1878. Recorded

Entd. in Regr