

(1) Number of pages 16
(2) Date of repair June 87
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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. W.

DEPARTMENT

G.O. No.	1349 W	Press.
B.P. No.		Mis.
Dated	12-5-1879	198 .

A.K

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

12th May 1879, No. 1,349 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 76. From F. N. THOROWGOOD, Esq., M. INST. C.E., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, Buildings and Roads, dated Madras, 24th April 1879, No. 5 W.

I HAVE the honor in continuation of my letter, No. 2 W, of April 2nd, paragraph 17, to submit an account of the expenditure on these works during March 1879.

2. I much regret that I have not been able to send it at an earlier date, but I have carried out so many alterations in it my attempts to make it agree as much as possible with what Mr. Parkes requires, and with what is consistent with the system of Public Works Accounts, that the delay has been quite unavoidable.

3. It will be observed that I have entered no expenditure against "Preliminary Works," but have made some transfers and corrections in some of the sub-heads of that charge. As to whether I should cease from making charges to "Preliminaries, Tools and Plant, &c.," I await a reply to my letter to Government, No. 78 W, of 24th March 1879, sent through the office of Examiner, Public Works Accounts.

4. With regard to the simple cost of construction of the two Piers it will be observed that the existing length of 1,526½ lineal feet of North Pier has cost Rupees 7,92,006, while the estimated cost of 1,710 feet is Rupees 8,96,558, giving a margin of Rupees 1,04,552 for the next length of 183 feet, and as the rubble base is nearly complete for a much greater length than 183 feet, there can be no doubt that the work up to 1,710 feet will be built well within the estimate.

5. In the construction of the South Pier the estimated cost for 1,100 feet is Rupees 5,96,270, and the actual cost for 1,110 feet (including rubble base tipped 700 feet in advance) is Rupees 4,78,875, giving a saving of more than Rs. 1,17,395 on that length.

6. In obedience to G.O., No. 608 W, of February 27th, 1879, paragraph 11, I have added the Rupees 2,00,000 allowed by the Chief Engineer, Public Works Department, for "Extra Rubble," and have inserted it at the end of the estimate.

STATEMENT of Outlay on Madras Harbour Works to 31st March 1879.

Heads of Expenditure.	Cost for February 1879.	Cost for March 1879.	Cost to end of March 1879.	Total Cost.	Estimate.	Remarks.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
PRELIMINARY WORKS.						
Marine Surveys ..	..	..	5,438 2 3	..	..	
Railways.						
Rails from England ..	..	..	1,38,898 14 11	..	..	
Shoreline ..	..	..	23,462 7 3	..	..	
Formation and Materials.	..	..	69,020 8 3	..	..	

STATEMENT of Outlay on Madras Harbour Works to 31st March 1879—cont.

Heads of Expenditure.	Cost for February 1879.	Cost for March 1879.	Cost to end of March 1879.	Total Cost.	Estimate.	Remarks.
RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
Black Ground Buildings ..	68 0 8	..	51,39 1 9 52,169 7 6	..	..	Includes cost of South Pier Black Ground. The note against this item in February Accounts was erroneous. A transfer and correction has been made from "Machinery."
<i>Plant.</i>						
Locomotive Engines ..	..	..	55,171 3 6	..	..	A transfer has been made to Locomotive Engines. The head of Buys and Beacons is abolished. Charges against this head have been transferred to "Rubble base" vide Mr. Parkes' statement, G.O. No. 668 W. February 27th, 1879.
Rolling Stock ..	..	..	20,034 11 10	..	..	
Floating Plant ..	..	..	1,43,534 8 3	..	..	
Machinery, Cranes, &c. ..	..	..	2,42,124 14 2	..	..	
General Tools ..	..	..	32,775 6 3	..	..	
Office Furniture ..	..	..	4,029 14 9	8,54,532 4 9	8,00,000	
<i>Block Making.</i>						
4,426 Blocks ..	..	..	6,55,680 3 1	..	..	
Credit by 2,177 blocks used in North Pier and 1,446 in South Pier ..	..	..	6,21,369 3 1	..	..	
Cost of 536 blocks of 16 cubic yards and 197 of 14 cubic yards, in all 12,134 cubic yards.	26,415 3 1	49,306 7 10	..	1,14,267 0 0	..	
Recovery ..	19 3 7	..	..	..	..	
<i>Construction of Piers.</i>						
<i>North Pier.</i>						
Surf Bank complete. Rubble Base 121,973 tons ..	15,491 2 3	27,500 2 1	1,76,865 4 9 2,30,240 0 6	..	..	Includes Rubble base for 675 feet a head.
2,177 Concrete Blocks. Setting do. 1,524 1/2 brass feet ..	2,371 11 9	5,492 8 2	3,11,594 3 1 73,615 6 11	7,92,008 15 3	8,96,558	Estimated cost to 1,710 feet from B (not yet reached).
Recovery ..	..	2 11 0	..	11,30,305	..	Estimate of remainder of Pier.
<i>South Pier.</i>						
Surf Bank complete. Rubble Base 13,926 tons ..	42,525 11 7	22,398 14 11	27,327 9 3 1,55,169 0 3	..	..	Includes Rubble base for 760 feet a head.
Recovery ..	..	693 0 0	..	..	..	
1,469 Concrete Blocks. Setting do. 1,110 brass feet ..	4,152 10 8	6,239 1 7	2,90,804 0 4 46,842 1 5	..	..	
Recovery ..	..	0 1 0	..	4,75,878 6 5	5,96,270	Estimated cost to 11,600 feet E. Estimate of remainder of Pier.
Two Light-houses ..	..	..	..	14,50,598	..	
<i>Contingencies.</i>				60,000	..	
Protective Works, North of Harbour ..	1,280 2 10	4,000 9 6	56,132 9 3	..	..	
Other charges ..	2,121 12 2	16,271 4 2	44,390 0 4	71,128 9 10	6,91,360	

STATEMENT of Outlay on Madras Harbour Works to 31st March 1879—cont.

Heads of Expenditure.	Cost for February 1879.	Cost for March 1879.	Cost to end of March 1879.	Total Cost.	Estimate.	Remarks.
RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS.	
<i>Establishment.</i>						
Salaries ..	7,657 2 4	2,934 2 4	1,61,681 14 11	..	..	
Office Contingencies ..	115 8 10	163 0 6	2,915 5 9	..	..	
Travelling Allowances ..	55 0 0	135 12 10	21,208 4 6	1,91,750 9 1	2,45,685	
Medical ..	..	..	331 15 8	..	..	
Assistance in Surveys ..	184 5 9	530 2 10	5,013 0 0	..	..	
Total, Expenditure on Works ..	78,654 0 5	1,19,977 7 8	..	25,12,559 13 4	56,50,780	
Add to Mr. Parkes' estimate for extra rubble ..	..	..	..	..	2,00,000	Inserted in compliance with G.O., 668 W, February 27th, 1879, paragraph 11.
<i>Value of Materials in Store.</i>						
Cement, English ..	..	23,644 2 5	132 10 0	..	..	
Do., Indian ..	4,045 7 10	10,730 0 0	23,130 0 5	..	..	
Fuel ..	369 10 11	12,749 4 6	28,690 0 5	..	..	
Timber ..	5,113 6 5	1,927 11 2	6,618 11 11	..	..	
Iron and Steel ..	388 14 4	387 4 0	20,532 4 0	..	..	
General Stores ..	1,451 1 3	1,236 11 9	21,574 6 8	1,00,262 6 5	..	
Total Disbursements ..	87,962 9 2	1,70,652 9 6	..	26,12,821 3 9	..	

24th April, 1879.

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

No. 77.

ORDER THEREON, 12th May 1879, No. 1,349 W.

RECORDED with reference to G.O., No. 1,218 W, dated 24th April 1879.

(True Extract.)

Major, R.E.,
Ag. Under Secy. to Govt., P.W.D.To the Superintendent, Madras Harbour Works.
Examiner of Public Works Accounts.End. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.
Sect. of 1879) 300713.
PUBLIC WORKS.

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS.
Sec. Sec. Sec.

Dated May 12th.

To

From

G. O. 12th May 1879, No. 1,249 W.

MAT.
Nos. 76-77.

MADRAS HARBOUR WORKS. Statement of
expenditure on the — during March 1879,
recorded.

From

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS.

To Colonel A. H. Sankey, R. E.
Secretary to Government
Public Works Department
Buildings & Roads.
MADRAS, 24th April 1879

Sir,

I have the honor in continuation
of my letter No. 201 of April 2nd paragraph
17, to submit an account of the
expenditure on these works during
March 1879.

2 I much regret that I have not
been able to send it at an earlier date,
but I have carried out so many
alterations in it my attempts to make
it agree as much as possible with
what Mr. Parkes requires and with
what is consistent with the system
of Public Works Accounts that the
delay has been quite unavoidable.

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entered no expenditure against
"Preliminary Works," but have made
some transfers and corrections

in some of the sub heads of that
charges to whether I should
cease from making charges to
Preliminary, Tools and Plant &c.

I await a reply to my letter to
Government. Mr. 78 W of the
sent through the Office of Engineer
Public Works Accounts.

With regard to the simple
cost of construction of the two
piers it will be observed that the
existing length of 1520 1/2 linear
feet of North Pier has cost \$792,000,
while the estimated cost of 1410
feet is \$, 96, 550, giving a margin
of \$1, 04, 552 for the net length of
183 feet, and as the rubble base is
nearly complete for a much greater
length than 183 feet there can be no
doubt that the work up to 1410 feet
will be built well within the estimate.

In the construction of the
South Pier the estimated cost
for

for 1100 feet is \$, 96, 270, and the
actual cost for 1110 feet (including
rubble base tipped 700 feet in advance)
is \$, 78, 875 giving a saving of more
than \$, 17, 395 on that length.

b. In obedience to C.O. No 608 W of
February 27th 1879. para 11. I have added
the \$200,000 allowed by the Chief Engineer
Public Works Department for "Extra Rubble",
and have inserted it at the end of the
estimate.

I have the honor to be,
Sir,
Your most Obedt Servant
R. H. Mowbray
Superintendent
M. H. Works

11828-9-1-97
 11828-9-2-97
 11828-9-3-97

11828-9-4-97
 11828-9-5-97

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Heads of Expenditure
 1899
 1898
 1897

Brought forward 1898 1897 1896

Establishment

Salaries	1507 2 4	2984 2 4	11651 14 0
Office Contingent	115 5 10	168 7 6	2915 2 6
Travelling Allowances	35 0 0	136 0 0	21008 1 6
Medical	0 0 0	0 0 0	331 15 8
Residence in Europe	184 5 9	530 3 10	1615 0 0

Total before on March 31st 1899 5 48 9 7 8

20000. Issued in compliance with G. O.
 5000.00 60816 Feb. 27. 1899 para 11

Value of Materials on Store

Cement	10165 7 10	10720 0 0	23160 0 0
Brick	309 10 0	12719 4 6	21690 6 5
Lime	5113 6 5	1937 11 2	1615 1 0
Iron & Steel	388 14 4	387 14 0	20082 10 0
General stores	1451 1 2	1236 10 9	21574 5 8

Total Materials on Store 8 19 2 9 6

24 April 1899

11828-9-6-97
 11828-9-7-97
 11828-9-8-97

Supdt. Mr. H. Works.

18-9-12-5-19-24-1349-10

18-9-12-5-19-24-1349-10

18-9-12-5-19-24-1349-10

1349 W
Proceedings of the Messrs. Works
Under date the 12th May 1879
Recd the following

From
The Supdt. Mr. H. Works. (H. to S. W. of 24th April)

Recorded with
reference to H. O. to
1210. H. of 24th April 79.

JK

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Plt

17/5/79

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Suppt. in. & w. s
Harbor Committee
Linn. Socy
Hamm. & Co. ✓

Dec 27-5-79

12-9/879
Cir 5-5-79.
to date 1-5-

W 3361

DEPT. OF HIST. & NAT.
PUBLIC WORKS.

14/5

Dated

For

To

G. O. 12 May 1870 No. 1349W

No.

75-77

Madras Port over Port

Statement of expenditure
in the — during month
1879 recorded.