A
2464

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From G. McWATTERS, Esq., M.A., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, Marine Department, dated Madras, 1st September 1890, No. 3307.

I have the honor to submit, herewith, for the information of Government, report of progress made upon the Madras Harbour during the month of July last.

ENCLOSURE.

EXTRACT of Proceedings of the Trustees of the Harbour of Madras, at a Meeting held at the Offices of the Board on Friday, the 29th day of August 1890.

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2. Examined statement and plan reporting progress made upon the Madras Harbour Works during July 1890.

Read minute by Captain H. A. Street, H. M.'s I. M.

Resolution.—Recorded.

* * * * *

(True Extract.)

(Signed) C. PINSENT,
Secretary, Harbour Trust Board.

PROGRESS STATEMENT No. 7.

MADRAS HARBOUR WORKS.

STATEMENT showing progress during July 1890 as shown on accompanying lithographed plan No. 6.

NOTE.—The figures in *black* type denote for comparison progress and quantity of work done in July 1889.

No. of item.	Particulars and quantity of work, &c.	Sub-heads of Work.	North Pier.					South Pier.					Pallavaram quarries outturn.	Concrete block-making.	Railway lines at works.	Railway lines at quarries.	Railway lines, Sand line.	Railway lines, Beach improvements.	Protective works.	Total expenditure
			Rubble base.	Superstructure.	Wavebreaker.	Concrete capping.	Base protection.	Rubble base.	Superstructure.	Wavebreaker.	Concrete capping.	Base protection.								
		Column	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Rubble stone deposited from boats	Tons	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	*Nil*	..
2	Do. do. from wagons	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	991½	..
3	Total quantity rubble stone received on works		..	..	..	..	..	..	..	..	..	..	*Nil* 991½	..	..	..	..	..	..	..
4	Do. blasted chips do.		..	..	..	..	..	..	..	..	..	..	3,615½ 6,775	..	..	..	..	..	..	..
5	Do. large stones do.	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	Concrete blocks set by divers	Number.	..	30 136	..	..	..	..	36 31	..	..	..	..	..	..	..	..	..	..	..
7	Do. deposited in wavebreaker	,,	..	..	3	..	..	..	..	..	..	..	..	*Nil*	..	..	..	..	..	..
8	Do. made for superstructure	,,	..	..		..	..	..	..	..	..	..	..	209	..	..	..	..	..	..
9	Do. do. wavebreaker	,,	..	..	..	..	..	..	..	..	..	..	..	142 151	..	..	..	..	..	..
10	Wrought-iron cramp fixed in position	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	Total outturn of concrete	C. yds.	..	..	..	..	..	..	..	..	..	*Nil* 140	..	2,556 5,877½	..	..	..	..	..	..
12	Advance or progress of completed superstructure	Rg. ft.	..	18¾ 87¾	..	..	..	..	24¾ 12½	..	..	..	..	..	..	..	..	..	..	..
13	Rubble base protected with concrete	,,	..	..	..	..	..	..	..	..	..	126	..	..	..	..	..	..	..	..
14	Metre gauge, 40 lb. per yard, laid new	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	Do. do. relaid or renewed	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	Do. do. taken up	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	Broad gauge, 50 lb. per yard, laid new	,,	..	..	..	..	..	..	..	..	..	..	..	..	3,096	..	..	..	..	..
18	Do. do. relaid or renewed	,,	..	326	..	..	..	..	236	..	..	..	..	..	..	..	..	..	..	..
19	Do. do. taken up	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	Titan gauge, 75 lb. per yard, laid new	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	Do. do. relaid or renewed	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	Do. do. taken up	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	.....	,,	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	Approximate expenditure under sub-heads of works	Rs.	528	6,384	94	..	18	..	5,213	390	..	1,221	12,981	61,356	..	..	5,823	..	..	94,008

		TONS	CWT.	QRS.	LB.
418	casks of cement received on works during July 1890 containing	74	12	3	12
4,909	do. issued for ,, ,, ,,	876	12	1	24
13,665	do. balance in store at end of ,, ,, ,,	2,440	4	3	6

Quantity due on indents.

	TONS	CWT.	QRS.	LB.
Dated 20th September 1889 ..	19	2	3	9
,, 14th March 1890 ..	3,000	0	0	0

Column B.—Items Nos. 6 and 12.—At the north pier, the Titan Crane was taken out and got into position for setting blocks on the 4th July, from which date very rapid progress was made, which is shown by 136 blocks being set against 30 blocks set last July. The advance was therefore 87¾ feet against 18½. With this progress and what has been built since, and continued fair weather, the north pier head should be reached by November.

Do. G.—Items Nos. 6 and 12.—The south peir head was advanced 12¼ feet by setting 31 of the special blocks made for widening the superstructure from the old section of 24 feet to 38 feet wide, which is founded 18 feet deeper. This heavier section contains 24 blocks per course of 6 feet, whereas 10 blocks of the same size, formerly, built a course in the ordinary superstructure; and considering that the excavations are getting deeper each course, and the Crane for setting the blocks is entirely unsuitable for the work, the progress during July must be considered an extraordinary rapid piece of work.

Do. L.—Items Nos. 8, 9 and 11.—Concrete block-making was carried on throughout the month, when 360 blocks were made, showing an outturn of 5,877½ cubic yards of concrete against half the quantity turned out last July. To date, all blocks for the superstructure are made, ⅔rds of the south pier head blocks are completed, and ⅓rd of the special blocks for the north pier head are made and hardening ready to set early next season.

Do. Q.—Item No. 2.—991½ tons of stone was deposited from wagons into the revetment at Cassimode, which, to-date, has prevented further erosion, but the revetment will require feeding with further stone for some time to come.

(Signed) A. L. POGSON,
Engineer, Harbour Trust Board.

MADRAS,
16th August 1890.

1/2464

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following paper:—

From G. McWATTERS, Esq., M.A., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, Marine Department, dated Madras, 1st September 1890, No. 3307.

I have the honor to submit, herewith, for the information of Government, report of progress made upon the Madras Harbour during the month of July last.

Enclosure.

Extract of Proceedings of the Trustees of the Harbour of Madras, at a Meeting held at the Offices of the Board on Friday, the 29th day of August 1890.

2. Examined statement and plan reporting progress made upon the Madras Harbour Works during July 1890.

Read minute by Captain H. A. Street, H. M.'s I. M.

Resolution.—Recorded.

(True Extract.)

(Signed) C. PINSENT,
Secretary, Harbour Trust Board.

2/2464

Transferred to the Public Works Department.

(Signed) J. F. PRICE,
Chief Secretary.

5th September 1890.

Order—dated 15th September 1890, No. 2464 W., Public Works.

Recorded.

(True Extract.)

Major, R.E.,
Under-Secy. to Govt., P.W.D.

To the Chairman, Madras Harbour Trust Board.
" Marine Department.

Exd. T. K. Narayana Aiyangar.
Spare Copeis

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1890} Madras.

PUBLIC WORKS.

Dated September, 15th.

Recd. *Encl.*

G.O., 15th Sept. 1890, No. 2464 W.

SEPTEMBER.

Madras Harbour Works

Progress report of the — for July 1890, recorded.

P/2464

EXTRACT of Proceedings of the TRUSTEES OF THE HARBOUR OF MADRAS, at a Meeting held at the Offices of the Board on Friday the 29th day of August 1890.

Present

2. Examined Statement and plan reporting progress made upon the Madras Harbour Works during July 1890.

Read minute by captain H.A. Street H. Wks. I. Rv.

Recorded.

True Extract

HARBOUR TRUST BOARD
1 SEP. 90
MADRAS.

Secretary
Harbour Trust Board.

Mem Circ 785/90

Pw Encl
8688/90

3096

5/
2464

Harbour Trust Board Office,

MADRAS, 1st September 1890.

No. 3307

No 785

FROM Geo. McWatters Esqr. M.A. C.S.

CHAIRMAN, HARBOUR TRUST BOARD,

MADRAS,

10

To

The Honorable J. F. Price C.S.

CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

Sir,

I have the honor to submit herewith for the information of Government report of progress made upon the Madras Harbour during the month of July last

I have the honor to be
Sir
Your Most obedt. Servant

Geo. McWatters
Chairman
Harbour Trust Board

P.S.C.

A.H.

5 H P

8/5 Sept 1890

Transferred

to the P.W. Dept.

Frederick White

Chief Secretary

4. 9. 90

Recd ~~6.11.90~~ 13-9-90.

No. 2464 W of 15th Sept. 1890

A

H S 11/9/90

Recorded.

P 6.9

Assistant Mr. H. T. Bd. 8

Marine Dept. 15/11

Obs 5. H.

Mr 6. H

Mr 11. H

MARINE DEPARTMENT.

FROM

THE CHAIRMAN,

HARBOUR TRUST BOARD,

MADRAS,

TO

THE CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

DATED 1st } September 1890.
RECEIVED 3 }

ENCLOSURE 3 — 2 recs with one plans.

No. 3307

03 SEP 90

SUBJECT.

Submitting for the information of Government, report of progress on the Madras Harbour for the month of July 1890.

Obs. Report { 1917-8 W of 16.7.90
1916 W " 00

Transferred

7/2464

6

8688.

Govt. of 18 Madras.

PUBLIC WORKS.

16/9/90

Dated

Recd. Encl.

G.O., 15 Sept. 1890, No. 2464W.

Madras Harbour Works.

Progress Report of the — for July 1890 Recorded.

60/4

LRC 15/9. 15/9