

(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. 2817	(11) ~~Press~~ ~~Mis.~~ <i>his</i>
Dated 8-12-1877.	

Not to be folded or roughly handled

No. 63w

From

THE SUPERINTENDENT,

MADRAS HARBOUR WORKS.

To

Colonel C. A. Ford, R. E.

Secretary to Government P.W. D.
Buildings & Roads

MADRAS, 1st December 1877.

SIR,

I have the honor to submit the following report of the progress on these works during the month of November.

North Pier

2. The weather during the past month has not been favourable for rapid progress, but whenever the sea was sufficiently smooth for working at the ends of the breakwaters, work has been carried on.

3. On the first few days of the month the sand accumulation remained as deep as in October, and the iron caisson which was used to keep back the sand was so completely buried that the divers could not reach it. On the 6th November with the aid of a strong jet of water from a fire engine the divers managed to work through the sand to a sufficient depth

to allow of the sling chains being fastened to the buried caisson, which was then lifted out of the water. -

4. Since that date thirteen blocks have been successfully set and by dredging in front of each course as it was set, I have been able to sink the blocks down to within a very short distance of the rubble base. This is a much more satisfactory method of procedure than that previously reported in October, namely setting the blocks on the sand and protecting the foundation with foresore only.

5. Although thirteen blocks is a very small number to have set in one month, I am glad to be able to state that if the sea had been quieter much more would have been done, and as it is, this number is more than has been set during the months of July, August, September and October put together. -

6. The length of the North Pier from point B, where the blockwork commences is now $34\frac{1}{2}$ feet, and the length advanced during

21
during the month of November, is $10\frac{1}{2}$ feet. The difficulty caused by the sand accumulation is daily becoming less serious, and I confidently expect that much better progress will be made in December.

Block making 7. At the beginning of the month the block making machinery was at work making superstructure blocks for the South Pier. Nineteen blocks were made and then the block platform had as many blocks on it as it would hold. The total number of concrete blocks now made for the superstructure of the piers is 11100. -

Quarries 8. Although there has been no block-making since November 3rd, a stock of stone from Chinnamapett has been allowed to accumulate in the yard. - During the month 775 tons of this stone have been received, making a total quantity supplied from Chinnamapett, of nearly 10000 tons. -

9. From Ambathoor 250 tons of large laterite boulders for protective purposes have been received, and 221 tons of ballast for

maintaining the railway lines at both piers.
10. The Locomotive Engine shed is very nearly completed, and the points and crossings are laid in connecting the line through the shed with the principal line in the yard.

Buildings

11. At the South pier the Titan was moved out to the extreme end of the bank on the 13th November, and it was set to work at arranging the six ton blocks which had been placed as a protection to the end of the surf bank. On the 19th block setting was commenced, and on the 30th November there had been 30 superstructure blocks successfully and truly set on the rubble base formed by the washed down end of the surf bank.

12. I have marked the place where block setting commences on the South Pier with the letter 'B'. The length of blockwork set from point 'B' eastward is $37\frac{1}{2}$ feet. At this pier also better progress would have been made if the weather had been more favourable.

13. During the month 84 more of the six ton protective blocks have been made at

South Pier Works

Protective Blocks

at the South pier to be ready in case of an emergency. All the stone for these blocks and for forming the bed of the superstructure has been brought from Palaveram and the quarry at the 15 mile.

Beach Railway 14. The Beach Railway is now in constant work at all hours of the day. Two men with red flags go in advance of the trains, and a hand bell is rung at times on the engine. The line works very satisfactorily and does not interfere in any serious degree with the ordinary traffic on the beach road.

General

15. I have not visited the crates and iron tank during November, and therefore have no fresh information, but as there has been no important disturbance of the sea, it is probable that there is no alteration in the condition of the sand.

16. On the 26th November, the North and South piers were inspected by His Grace the Governor.

Plans &c

17. This report is accompanied with a plan of the Harbour as at present existing, whereon is shown the state of the

the sand accumulations in the neighborhood
of the two piers. There are likewise specimens
of the North and South piers showing the
progress made during the month.

I have the honor to be

Yours most obedient servant

A. H. Mousgood.

Superintendent

Madras Harbour Works

Received of the
Honble Mr. Mousgood
the sum of Rs. 100/-

at 24/-
per annum 24/-

1861

1861

1861

1861

From Buildings & Roads
The Superintendent
Madras Harbour Works

PUBLIC WORKS DEPARTMENT.

Letter from the Superintendent, Madras
Harbour Works. No 63 W of 1st Dec 77.

FOR ORDERS.

No 13th Nov^r 1877 No 1618 - m.

A.63 m.
Dated 1st December 1877

Ref Enclosures 3

* 3 Plans given
to Librarian -

4th Dec 77

E A Mnd Col M.
Secretary to Govt. Mnd.

I think M. J. in 8th lat in
each item for progress report to total
Expenditure & date out of the estimate

AB

M 4/12

H (J)

Progress Report
Submit Progress Report
of the work during Nov 1877

26 8th Dec 77 L.B. 86

Ar 4/12

FOR ORDERS.

*The Superintendent,
Madras Harbour Works,
his Grace the Governor*

2017 N

Harbour

Ans 4/12

No 20176 Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 8th Dec 77
Read the following :-

From,

*The Superintendent,
Madras Harbour Works* } *(H.C. No 63 W & 1, Dec 77)*

*Ordered to be
recorded.*

*The Superintendent
will in future Progress
Reports mention the
total expenditure
to date out of the
estimate for the works.*

*W.H.
8.12.77*

*Supdt. In. H. Works
Marine Department*

*17
13-12-77*

Ch 12/24
Govt. of Madras.
PUBLIC WORKS.

To *The Supt. Harbour Works*

Dated

Issued

Recd.

Encl.

G. O., 8 Dec 1877, No. 2576

Nos. 86-87

*Madras Harbour Works
progress report for Nov 1877
Recorded in the ...*

Butler M.P.