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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

DEPARTMENT

G.O. No. <u>637W</u>	Press.
B.P. No.	Mis.
Dated <u>10</u> — <u>3</u> — <u>1881</u> ~~197~~	

V. S. M.

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

10th March 1881, No. 637 W.

Buildings and Roads,
Civil Works.

Read the following paper :—

No. 25. From F. N. THOROWGOOD, Esq., M. Inst. C.E., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, dated 4th March 1881, No. 90 W.

I HAVE the honor to submit the following report of the progress on these works during the past month of February.

2. *North Pier Superstructure.*—The weather having been very favorable for work the progress with the north pier head was considerable, and 286 blocks were satisfactorily set in position, advancing the work by a length of $93\frac{3}{4}$ lineal feet and bringing the end to within $109\frac{1}{4}$ feet of the actual termination. In the early part of the month the excavation for the bottom course of blocks was so very heavy, owing to the rubble base being accidentally tipped too high, that we determined to raise the level of the foundation for a short distance so as to make a more rapid advance. The depth of foundation of the finishing courses of blocks will be the same as originally designed. The section of the north pier at the present date is four rows of blocks in width and five tiers in height, which necessitates setting 20 blocks for every complete row, in place of eight blocks as in the ordinary section of the work.

3. *North Pier Rubble Base.*—I stated in my last report that the base of the north pier was practically finished in January, and so, with one exception, it was. That exception is the foundation for the return wall or horn shown at the end of each pier on the accompanying plan. The work of constructing this is now taken in hand and will soon be completed. During February 1,019 tons of stone were deposited in the north pier base for filling up hollow places and making up the full width at the top.

4. *Concrete Block-making.*—The making of concrete blocks had to be suspended occasionally for want of space to stack them, but 360 blocks were made during the month. The blocks for the north pier head are completed with the exception of a few for the return wall or horn which will be made during the current month.

5. *Quarries.*—The outturn from the quarries has not been so large as I could wish, but it is absolutely impossible to keep the full number of coolies at work at quarrying when they wish to be cultivating their land. From Ambathoor the daily number of trains has been reduced to two, and the total amount of laterite received in February was only 13,778 tons. From Pallavaram 17,183 tons of granite were received, but latterly I have had to cancel several trains on account of insufficient coolies at the quarry. This difficulty with the coolies is likely to continue for some time longer, as the season is exceptionally good for cultivation.

6. *South Pier Superstructure.*—The progress at the south pier has been most satisfactory during February, and has nearly equalled the greatest amount hitherto achieved in one month (September 1880). There were 376 blocks set during the month, advancing the pier by a length of $218\frac{1}{4}$ lineal feet in twenty-three working days. The total length is now $3,463\frac{3}{4}$ feet from the commencement, and there remains a length of 493 feet to be built to finish the pier. The width of the opening between the two piers was 1,110 feet on February 28th.

7. *South Pier Rubble Base.*—The formation of the rubble base of the south pier has been pushed on as rapidly as possible, and in February 21,323 tons of stone were deposited, of which 13,404 tons were brought by the two steamers. Every exertion will be made to complete the base by next May, but the deficient outturn from the quarries is against this being accomplished.

8. *Protective Works, north of Harbour.*—Very little work is being done towards protecting the north beach, as there is no tendency of the sea to encroach. During February about 500 tons of boulders were removed from an abandoned groyne and placed to the north of the Police tannah. I shall reduce expenditure on this head to a minimum in future.

9. *Stores received on works.*—Only one vessel arrived with stores for the works during February, and that was the ship *Her Majesty* with 2,596 casks of Portland cement. The whole of the cement for these works is now received.

10. *Expenditure.*—The expenditure during February has been approximately Rs. 1,17,075, and the total expenditure recorded in the books is Rs. 50,77,933, to this some additions must be made for outstanding accounts.

11. *Plans and Sections.*—The usual lithographed plan and two sections accompany this report. On the north pier section is shown the rise in the foundation to avoid the heavy excavation referred to in paragraph 2 of this report. The completed pier is shown in a black dotted line.

No. 26.

ORDER THEREON, 10th March 1881, No. 637 W.

WITH reference to the statement in paragraph 2 of Mr. Thorowgood's report, that the foundation of the bottom course of blocks has been raised for a short distance owing to the rubble base having been accidentally tipped too high, it is desirable that a further report should be submitted as to the extent of the deviation allowed, as well as an assurance from Mr. Parkes that no danger to the solidity of the pier is in consequence likely to accrue.

2. As regards the stoppage of the work of revetting the shore line north of the harbour, adverted to in paragraph 8, attention is called to G.O., No. 560 W., dated 1st March, in which instructions as to the further prosecution of the work are given.

(True Extract.)

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

To the Superintendent of Madras Harbour Works.
" Engineer-in-Chief, Madras Harbour Works.
" Marine Department.

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1881) Madras
PUBLIC WORKS

To

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS,

&c., &c., &c.

Dated March, 1881.

Issued

Recd.

G. O., 10th March 1881, No. 657 W.

MARCH.
Nos. 25-26.

Madras Harbour Works.—Orders on pro-
gress report of the.— for February 1881.

No. 9011

From

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS.

To

Colonel R. B. Sankar, C. B. P. O.
Secretary to Government, P. W. Dept.
Buildings & Roads
Fort St. George
MADRAS, 14 March 1881.

Sir,

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

North Pier.
Superstructure.

2. The weather having been very favoura-
ble for work the progress with the North
Pier Head was considerable and 286 blocks
were satisfactorily set in position, advancing
the work by a length of 93 $\frac{3}{4}$ lineal feet, and
bringing the end to within 109 $\frac{1}{4}$ feet of the
actual termination. In the early part of the
month the excavation for the bottom course
of blocks was so very heavy, owing to the
ribble base being accidentally tipped too
high, that we determined to raise the
level of the foundation for a short dis-
tance so as to make a more rapid advance.

The depth of foundation of the finishing courses of blocks will be the same as originally designed. The section of the North Pier at the present date is four rows of blocks in width and five tiers in height, which necessitates setting 20 blocks for every complete row, in place of 8 blocks as in the ordinary section of the work.

3. I stated in my last report that the North Pier Rubble Base was practically finished in January, and so, with one exception, it was. That exception is the foundation for the return wall or horn shown at the end of each pier on the accompanying plan. The work of constructing this is now taken in hand and will soon be completed. During February 1019 tons of stone were deposited in the North Pier base for filling up hollow places and making up the full width at the top.

4. The making of concrete blocks had to be suspended occasionally for want of Concrete Blockmaking space

Quarries

space to stack them, but 360 blocks were made during the month. The blocks for the North Pier Head are completed with the exception of a few for the return wall or horn which will be made during the current month.

5. The outturn from the quarries has not been so large as I could wish, but it is absolutely impossible to keep the full number of coolies at work at quarrying, when they wish to be cultivating their land. From Ambathoor the daily number of trains has been reduced to two, and the total amount of lateite received in February was only 13778 tons. From Pallavaram 17183 tons of granite were received, but latterly I have had to cancel several trains on account of insufficient coolies at the quarry. This difficulty with the coolies is likely to continue for some time longer, as the season is exceptionally good for cultivation.

South Pier Superstructure

6. The progress at the South Pier has been most satisfactory during February, and

has nearly equalled the greatest amount hitherto achieved in one month (September 1880).

There were 376 blocks set during the month, advancing the pier by a length of 218 1/2 lineal feet in 23 working days. The total length is now 3463 3/4 feet from the commencement and there remains a length of 493 feet to be built to finish the pier. The width of the opening between the two piers was 1110 feet on February 28th.

7. The formation of the rubble base of the South Pier has been pushed on as rapidly as possible, and in February 24,323 tons of stone were deposited, of which 13,466 tons were brought by the two steamers. Every exertion will be made to complete the base by next May, but the deficient outturn from the quarries is against this being accomplished.

8. Very little work is being done towards protecting the North beach as there is no tendency of the sea to encroach. During February about 500 tons of boulders were removed from an abandoned groyne and placed

Stores received on works

9. Only one vessel arrived with stores for the works during February, and that was the ship Her Majesty with 2596 casks of Portland cement. The whole of the cement for these works is now received.

Expenditure

10. The expenditure during February has been approximately Rs 117,075, and the total expenditure recorded in the books is Rs 5077,933 to this some additions must be made for outstanding accounts.

Plans and Sections.

11. The usual lithographed plan and two sections accompanying this report. On the North pier section is shown the rise in the foundation to avoid the heavy excavation, referred to in para. 2 of this report. The completed pier is shown in a black dotted line.

I have the honor to be,

Sir,

Your most Obedient Servant

A. H. Morrison
Superintendent
Gladstone Harbour, N.S.W.

8
S. H. C. 1375.

Buildings & Roads

From The Superintendent
Madras Harbour Works.

at 10 PM
Dated 4th March 1881
about 5th

At 12 of Encl. 1375.

Proposed Report
Submitted for the month
of February 1881.

9
No. 637W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 10th March/81

Read the following:—

From The Sup^{nt} M H Works } At 10 PM 10th March 1881

With reference to the
of Mr. Thoroughgood's Report
Statement in para 2, that
the foundation of the
bottom course of blocks
has been raised for a
short distance owing to
the rubble base having
been accidentally tipped
too high, it is desirable
that a further report
should be submitted as
to the extent of the deviation
allowed, as well as an
assurance from Mr.

WPL

P.S.

1710
Parker that no danger
to the solidity of the Pier
is in consequence likely
to accrue.

As regards the
stoppage of the work of
revetting the shore line
north of the Harbour ad-
verted to in para 8, ^{the}
attention is called to
G.O. No 560 of 1st March
in which instructions as
to the further prosecution
of the work are given.

Alth

8/3/87

To The Sup^t M H W
Engin^g Chief M H W
Marine Deptⁿ

20. 11. 18-3-87

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in R. A. A. A. A. A.

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2 R. 2.

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Govt. of Madras.

PUBLIC WORKS.

To

Dated

By

For

And

G.O. 10th Mar 1881. No. 637 W

No. 25626

Madras Harbour Works

Order in progress report of

the — for Feb'y 1881.