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# TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

*Public works* DEPARTMENT

|          |            |        |
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S.G.M.

Not to be folded or roughly handled

1516  
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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

17th June 1881, No. 1,516 W.

Buildings and Roads.  
Civil Works.

Read the following paper :—

No. 39. From N. St. B. BEARDMORE, Esq., A.M.I.C.E., Officiating Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, dated Madras, 3rd June 1881, No. 18 W.

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

2. NORTH PIER SUPERSTRUCTURE.—On the 2nd May two courses were set in the south centre and south walls of the north pier making the termination of the pier a straight line and the total length 3,840 feet. From this position will be set the specially altered blocks for the pier heads and for the curved portion of the pier called the horn.

3. After the work of the 2nd May the Titan crane was drawn back some hundred feet to await on a more settled portion of the pier the conclusion of the stormy period of May.

4. NORTH PIER, RUBBLE BASE.—No stone was deposited in the north pier base during the month, for this work (except for a small amount of levelling up that may be required) is completed.

5. CONCRETE BLOCK-MAKING.—The number of concrete blocks made during the month was 259, all on the north pier block ground.

6. QUARRIES.—The outturn from the Ambatūr quarries during the month was 2,770 tons; this has been all used for the beach improvement work to be remarked on hereafter. From Pallavaram the total quantity of stone quarried and received has been 11,800 tons. Of this 2,362 tons was used in making concrete blocks and 9,438 tons for the rubble base in the south pier.

7. SOUTH PIER SUPERSTRUCTURE.—As remarked in the last progress report the Titan crane was withdrawn early in the month from the end of the south pier on to a portion that has already been tested by severe storms, there to await the cessation of the stormy period of May and, consequently, no work was done in the superstructure of this pier.

8. SOUTH PIER RUBBLE BASE.—In the rubble base of the south pier 9,438 tons of granite stone were deposited by hand from cargo boats. This work is now nearly completed.

9. PROTECTIVE WORKS NORTH OF HARBOUR.—Encroachment on the beach in the neighbourhood of Ráyapuram has recurred during the past month as is usual at this time of the year, but is not sufficient yet to call for any special protective works.

10. STORES.—Large quantities of stores have been received during the past month in the steam ships *Duke of Argyll*, *Pekin* and *Bhundara*, all the stores being connected with the moorings and buoys. These include one hundred and thirty-four mooring screws, twenty-nine large buoys, twelve small buoys and engine and boiler with capstans, &c., for screwing down the moorings, a large quantity of mooring chains, and other smaller articles.

11. BEACH IMPROVEMENT WORKS.—The sand work for the greater portion of the reclamation of the strand within the harbour has been completed, 6,380 cubic yards having been formed up during the month as shown on the accompanying plan by a burnt sienna tint. A portion of this has been spread over with laterite metalling about 9 inches deep; 1,410 tons of laterite boulders have been tipped for the formation of the jetty south of the iron pier, and 266 tons laterite boulders have been used for pitching the slopes of the sand revetment. Two of the drains north of the iron pier have been extended beyond the boundary of the sand revetment, 44 cubic yards of concrete and 32 cubic yards of brickwork being used in extending these drains. The temporary line of railway shown in blue on the plan has been extended 630 feet in order to carry the laterite stone for the formation of the jetties and for the revetment of the boundary of the sand, &c.

12. EXPENDITURE.—The expenditure during the month of May has been Rs. 82,062 and the total expenditure from the commencement of the work has been Rs. 53,77,008.

13. PLANS AND SECTIONS.—The usual lithographed plan and a section of the north pier accompany this report. A section of the south pier is not forwarded, for there was no work done in the superstructure and one has not been able to make any detailed survey of the rubble base (under water) since the 5th May owing to rough weather.

No. 40.

ORDER THEREON, 17th June 1881, No. 1,516 W.

ORDERED to be recorded.

(True Extract.)

Captain, R.E.,  
Ag. Under Secy. to Govt., P.W.D.

To the Superintendent of Madras Harbour Works.  
" Marine Department.

Exd. E. C. Shunker.  
Spare Copies

1516  
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BUILDINGS AND ROADS.  
CIVIL WORKS.

Govt. of (1881) Madras  
PUBLIC WORKS.

To  
THE SUPERINTENDENT, MADRAS  
HARBOUR WORKS.  
&c., &c., &c.

Dated June, 17th.

Issued

Recd.

Encl.

G. O., 17th June 1881, No. 1,516 W.

JUNE.  
Nos. 39-40.

Madras Harbour Works.—Progress Report  
for May 1881 recorded.

No. 1811

From

THE SUPERINTENDENT,

MADRAS HARBOUR WORKS,

To Colonel A. H. Lowkey, P. E. & S.  
Secretary to Government  
Buildings & Roads  
MADRAS, June 1881.

SIR,

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

North Pier  
Superstructure

2. On the 2<sup>nd</sup> May two courses were set in  
the South centre and South walls of the North  
Pier making the termination of the Pier a  
straight line, and the total length 3,540 feet.  
From this position will be set the specially  
allowed blocks for the Pier heads and for  
the curved portion of the Pier called the  
horn.

3. After the work of the 2<sup>nd</sup> May the  
Moss Crane was drawn back some hundred  
feet to await a more settled position  
of the Pier, the conclusion of the stormy  
period of May.

North Pier  
Rubble Base

4. No stone was deposited in the North  
Pier base during the month for this work  
(except for a small amount of levelling up  
that

that may be required) is completed. -

5. The number of concrete blocks made during the month was 259, all on the North Pier block ground. - Concrete Block making

6. The output from the Ambatur quarries during the month was 2770 tons, this has been all used for the Beach Improvement work, to be remarked on hereafter. From Pallavaram the total quantity of stone quarried and received has been 11800 tons. Of this 2362 tons was used in making concrete blocks and 9438 tons for the rubble base in the South Pier. - Quarries

7. As remarked in the last Progress Report the Titan Crane was withdrawn early in the month from the end of the South Pier, on to a portion that has already been tested by severe storms, there to await the cessation of the stormy period of May, and consequently no work was done in the superstructure of this Pier. - South Pier Superstructure

8. In the rubble base of the South Pier 9438 tons of granite stone were deposited by hand from cargo boats. This work is now nearly completed. - South Pier Rubble Base

9. Encroachment on the beach in the neighbourhood of Royapuram has recurred during the Protective Works North of Harbour

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A  
the past month, as is usual at this time of the year, but is not sufficient yet, to call for any special protective works. -

10. Large quantities of stores have been received during the past month in the S.S. "Duke of Argyle," "Pekin" and "Bhumdard"; all the stores being connected with the moorings and buoys. These include one hundred and thirty four mooring screws, twenty nine large buoys, twelve small buoys, an Engine and Boiler, with capstans &c. for screwing down the moorings, a large quantity of mooring chains, and other smaller articles. - Stores

11. The sandwork for the greater portion of the reclamation of the strand within the Harbour has been completed, 6380 cubic yards having been formed up during the month as shown on the accompanying plan by a burnt sienna tint. A portion of this has been spread over with laterite metalling about nine inches deep; 1410 tons of laterite boulders have been tipped for the formation of the jetty South of the Iron Pier, and 266 tons laterite boulders have been used for pitching the slopes of the sand revetment. Two of the drains North of the Iron Pier have been extended beyond the boundary of Beach Improvement Works

It is to be noted that the laterite boulders are of piles?

of the sand revetment; 44 cubic yards of concrete and 32 cubic yards of brickwork being used in extending these drains. The temporary line of railway shown in blue on the plan has been extended 636 feet in order to carry the laterite stone for the formation of the jetties, and for the revetment of the boundary of the sand ~~jetty~~. -

12. The expenditure during the month of May has been Rs 2062 and the total expenditure from the commencement of the work has been Rs 5377.008. -

13. The usual lithographed plan and a section of the North Pier accompany this report. A section of the South Pier is not forwarded for there was no work done in the superstructure, and one has not been able to make any detailed survey of the rubble base (underwater) since the 5<sup>th</sup> May owing to rough weather.

I have the honor to be

Sir

Your most obedient servant  
Chatterjee Beardsmore

Asst. Commr. Port C.B.

Offg. Superintendent  
Madras Harbour Works

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20-5-81 by 1340W

P. h. c. A. 3372

Buildings & Roads

From the Offg Superintendent  
Madrass Harbour Works

Resub to the Governor  
A 1516 W. 2/17 June 1881

Ordered to be re-  
corded. *Car*

*Car* *Att*

13/6/81

*1814*  
Dated 3<sup>rd</sup> June 1881.  
Recd. 7-

*X*  
No of Enclosures 2  
(2 plans)

*X* Leakage  
section  
18/6

Progress Report  
Submitted for May 1881.

Supt M. H. W. *S*  
Marine Dept *✓* *Desad*  
28-6-81  
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Gt. of 1881. Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O., 17 June 1881, No. 1576 W

Nos. 39-40

Madras Harbour Works  
Magazine report for May  
1881, recorded.

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