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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

PW DEPARTMENT

G.O. No. / B.P. No.	2161 (W)	Press. / Mis.
Dated	15.9.1880	19~~7~~ :

VB

Not to be folded or roughly handled

2151
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

15th September 1880, No. 2,161 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 68. From F. N. THOROWGOOD, Esq., M. INST. C.E., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, dated Madras, 4th September 1880, No. 39 W.

I HAVE the honor to submit the following report of work done during the past month of August, and am glad to be able to state that, in spite of bad weather at the beginning of the month, the actual progress of the two piers has been much greater than in any previous month, a total length of 356¾ feet having been constructed.

2. *North Pier Superstructure.*—In the early part of August a heavy and persistent ground swell interfered with and prevented diving operations, but the latter half of the month was so favorable for work that 320 blocks were successfully set, advancing the pier by a length of 184½ feet and making the total to be 3,301¾ feet from the commencement of the blockwork. During the six days from August 16th to 21st there were 104 blocks set in the north pier alone.

3. *North Pier Rubble Base.*—Not much work was done at the north pier base in August, as the base of the south pier needed all the rubble that could be spared. There were, however, 4,453 tons tipped from the cargo boats, which was sufficient to keep the foundation well in advance of the blockwork. The accompanying section shows that a length of 300 feet is nearly made up to the finished height, and that the stone extends over about 50 further.

4. The design of the pier head will now affect the extreme end of the rubble mound, which must be widened and lowered to suit the arrangement of blocks agreed upon by Mr. Parkes.

5. *Concrete Blockmaking.*—The manufacture of concrete blocks in the yards has been pushed on during August to its fullest possible extent, 548 blocks having been made in the twenty-six working days. All the blocks for the curved work of the south pier are now completed (on August 19th), and it will be necessary to commence in this month the blocks for the pier heads, which require moulds of special construction. I received instructions on September 1st from Mr. Parkes which will enable me to carry out the whole of the heads with the exception of the extreme end, and in a few weeks I have no doubt the form of the complete work will be agreed upon. But upon this subject it will perhaps be advisable to address Government separately.

6. *Quarries.*—The outturn from the quarries has been on the whole satisfactory during August, although the quantity of laterite from Ambatúr has been smaller than it ought. Rain and the increased difficulty in obtaining good stone has interfered with work at this quarry, from which in the month 18,175 tons were supplied. From Pallávaram the outturn has been kept up to the maximum possible, the quantity received in August being 19,267 tons, giving a gross weight from all sources of 37,442 tons for the month.

7. Quarrying at Pallávaram has been interrupted considerably by want of dynamite for blasting. My original stock from Bombay was exhausted early in August (at which date a ship was expected in Madras), and I have been unable to obtain any more. In the mean time powder is used as at first.

8. *South Pier Superstructure.*—The curved work in the south pier has made excellent progress during August, and more than half of the curve is now completed. It is my earnest hope to have this finished before the usual bad weather of November sets in, and there seems every chance of this being achieved. In the past month 304 blocks were set, advancing the pier by a length of 172¼ feet and making the total length from the commencement 2,736¼ feet.

9. On August 31st there were set at the south pier 32 blocks, and on the same day 24 blocks at the north pier, giving a total of 56 blocks in one day, which is the greatest number yet reached, and which represents a weight of exactly 1,449 tons of concrete.

10. *South Pier Rubble Base.*—The south pier rubble base has received by far the greater portion of the available stone during August, 26,208 tons having been deposited in the curve. Of this quantity, the steamers conveyed 13,200 tons of laterite from the north pier loading station, and the remainder was thrown in from boats. The base extends now for 400 feet in advance of blockwork, and is fairly well made up for that length as shown on the section herewith. The foundation of the curved work is now completed.

11. *Protective Works to the Beach.*—The encroachment of the sea to the northward is still causing much trouble, and it is with much difficulty that I keep the ground near the Police Tannah from being cut away. Along the front of Mr. Coleman's house there is no encroachment now, but to the north of this boulders are still required, and 210 tons were used in August. It may reasonably be hoped that next month the action of cutting away will cease, and a rough revetment can then be completed.

12. *Intercepting Sewer.*—The intercepting sewer is now finished, and has been at work since August 6th. All the sewage, since that date, which would have run into the harbour area has been discharged to the northward, and latterly the sewage from the pumping engine near the Fort has likewise been passed down the harbour works drain.

13. *Stores received on Works.*—The following stores were received from England during August:—

2 tons Railway Grease per S.S. *Dorunda.*
6,911 casks Portland Cement per S.S. *Sydney Eggers* and *Mofussilite.*

14. *Expenditure.*—The total expenditure on the works up to the end of August has been Rs. 43,73,532 subject to correction in detail.

15. *General.*—As I have already stated, the actual advance of the superstructure of the two piers has been greater during August than in any previous month. I should also state that it would have been still more but for the ground swell during the first twelve days. I am pleased to report that the staff on the works are no longer suffering from sickness (as mentioned in the Progress Report for July), and that Mr. G. Lowe has recovered and resumed work as usual.

No. 69. ORDER THEREON, 15th September 1880, No. 2,161 W.

RECORDED.

2. The Government note with satisfaction the good progress of the works during the month of August.

(True Extract.)

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

To the Superintendent, Madras Harbour Works.
" Marine Department.
" Secretary, Harbour Works Committee.
To General Morgan.
Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1880} Madras.

PUBLIC WORKS.

To

THE SUPERINTENDENT, MADRAS
HARBOUR WORKS,

&c., &c., &c.

Dated September, 15th.

Issued

Recd. Encl.

G. O., 15th September 1880, No. 2,161 W.

SEPTEMBER.

Nos. 66-89

Madras Harbour Works.—Progress Report of the — for the month of August 1880, recorded, and the good progress of the works noted with satisfaction.

No. 39 W

From

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS.

2161/3

To

Colonel R. H. Sankey C.B. R.E.
Secretary to Government P.W.D.
Buildings & Roads

MADRAS, September 4th 1880.

SIR,

I have the honor to submit the following report of work done during the past month of August, and am glad to be able to state that in spite of bad weather at the beginning of the month the actual progress of the two piers has been much greater than in any previous month, a total length of 356 3/4 feet having been constructed.

North Pier Superstructure

2 In the early part of August a heavy and persistent ground swell interfered with and prevented diving operations, but the latter half of the month was so favourable for work that 320 blocks were successfully set advancing the pier by a length of 184 1/2 feet and

making the total to be 3301 3/4 feet from the commencement of the blockwork. During the 6 days from August 16th to 21st there were 104 blocks set in the North Pier alone.

North Pier
Rubble Base

3 Not much work was done at the North Pier Base in August, as the base of the South Pier needed all the rubble that could be spared. There were however 4453 tons tipped from the cargo boats which was sufficient to keep the foundation well in advance of the blockwork. The accompanying section shows that a length of 300 feet is nearly made up to the finished height, and that the stone extends over about 50 further.

4 The design of the Pier head will now affect the extreme end of the rubble mound which must be widened and lowered to suit the arrangement of blocks agreed upon by Mr Parkes

Concrete
Blockmaking

5 The manufacture of Concrete blocks in the yards has been pushed on during August to its fullest possible extent; 548 blocks having been made in the 26 working days. All the blocks for the curved work of the South Pier are now completed (on August 19) and it will be necessary to commence in this month the blocks for the Pier heads, which require moulds of special construction. I received instructions on September 1st from Mr Parkes which will enable me to carry out the whole of the heads with the exception of the extreme end and in a few weeks I have no doubt the form of the complete work will be agreed upon. But upon this subject it will perhaps be advisable to address Government separately.

Quarries

6 The outturn from the quarries has been on the whole satisfactory during August, although the quantity of laterite from Ambathoor has been smaller than it might Rain and the increased difficulty in obtaining good stone has interfered with working at this quarry from which in the month 18,175 tons were supplied. From Pallavaram

the outturn has been kept up to the maximum possible, the quantity received in August being 19,267 tons, giving a gross weight from all sources of 37,442 tons for the month

7 Quarrying at Pallavaram has been interrupted considerably by want of dynamite for blasting. My original stock from Bombay was exhausted early in August (at which date a ship was expected in Madras) and I have been unable to obtain any more. In the meantime powder is used as at first.

South Pier
Superstructure

8 The curved work in the South pier has made excellent progress during August, and more than half of the ~~Curve~~ curve is now completed. It is my earnest hope to have this finished before the usual bad weather of November sets in, and there seems every chance of this being achieved. In the past month 304 blocks were set advancing the pier by a length of 172¾ feet, and making the total length from the commencement 2736¾ feet.

9 On August 31st there were set at the South Pier 32 blocks, and on the same day 24 blocks at the North Pier, giving a total of 56 blocks in one day which is the greatest number yet reached and which represents a weight of exactly 1449 tons of Concrete.

South Pier
Rubble Base

10 The South pier rubble base has received by far the greater portion of the available stone during August, 26,208 tons having been deposited in the Curve. Of this quantity the Steamers conveyed 13,200 tons of laterite from the North pier loading Station, and the remainder was thrown in from boats. The base extends now for 400 feet in advance of blockwork and is fairly well made up for that length as shown on the Section herewith. The foundation of the Curved

work is now completed.

Protective Work to the Beach

11 The encroachment of the sea to the Northward is still causing much trouble, and it is with much difficulty that I keep the ground near the Police Tannah from being cut away. Along the front of Mr. Coleman's house there is no encroachment now, but to the North of this boulders are still required and 210 tons were used in August. It may reasonably be hoped that next month the action of cutting away will cease, and a rough pavement can then be completed

Intercepting Sewer

12 The intercepting sewer is now finished and has been at work since August 6th. All the sewage, since that date, which would have run into the Harbour area has been discharged to the Northward and latterly the sewage from the pumping engine near the Fort has likewise been passed down the Harbour Works drain.

Stores received on Works

13 The following Stores were received from England during August.

2 tons Railway Grease per SS. Dorunda

69 Casks Portland Cement — Sydney Iggers & Mopossilite

Expenditure

14 The total expenditure on the Works up to the end of August has been Rs 4,73,532 subject to correction in detail

General

15 As I have already stated the actual advance of the superstructure of the two piers has been greater during August than in any previous month I should also state that it would have been still more but for the ground swell during the first twelve days. I am pleased to report that the staff on the works are no longer suffering from sickness (as mentioned in the Progress Report for July) and that Mr. G. Lowe has recovered and resumed work as usual.

Have the honor to be

G. O. 1943 & 3 13th Augt/80.

Buildings & Roads
P.W.D.
7 SEP 80

From No 3685

The Superintendent
Madras Harbor Works

No 39 W.

Dated 4th September 1880

Rec'd 7th —

Encs: 3 - plan
Sent in a tin case

Ejnc
8-9

only his plans were required
15-9-80
to the Laboratory

21-1-81

Madras Harbor Works -
Progress Report of the — for
the month of August 1880

Cir 11-9-80 Rec'd 13-9-80 -

Ord 18th Septr 80.

No 2161 W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 15th Septr 80

Read the following:—

2161

From,

The Superintendent
Madras Harbour Works

(W. Lr No 39 W & 4th Septr 80.)

Recorded.

2. The Government note with satisfaction the good progress of the works during the month of August.

11/9/80

Supt, H.B.M. Works ✓
Marine Dept ✓
Secy. Harbour Works Committee ✓
Genl Marine ✓

Dated 22 Sept 80

Cir 11.9.80 . Stat 13.9.80

6685

Govt. of (1880) Madras.

PUBLIC WORKS.

To

Dated

Issued

Read. (8) Encl.

G. O., 18th Sept. 1880. No. 2161/5.

Nos. 68-69

Madras Handbook,

Progress report for the
for the month
of Sept. 1880 records
with thanks
the forest progress
of the works noted
herein with satisfaction.

W/5