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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

PW DEPARTMENT

G.O. No.	560 - W	Press.
B.P. No.		~~Mis.~~
Dated	11/3/1881	197

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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st March 1881, No. 560 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 3. From F. N. THOROWGOOD, Esq., M. Inst., C.E., Superintendent of Madras Harbour Works, to the Secretary to Government, Public Works Department, dated Madras, 4th February 1881, No. 85 W.

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

2. *North Pier Superstructure.*—The month commenced with favorable weather and work was carried on fairly well up to January 6th, but from that date until the 24th the state of the sea rendered the end of the north pier inaccessible and stopped all progress. Since the 24th the weather has been more favorable for work, and with the month of February there seems to have come the usual smooth sea. In January 114 blocks were set, advancing the pier by a length of 60 feet, and bringing the work to within 203 feet of the actual termination. The pier-head is now being built, and the section of the pier at the present date is five blocks in height and three blocks in width, which entails much more work per row of blocks than formerly, and consequently the rate of advance will not be so rapid as heretofore.

3. *North Pier Rubble Base.*—The rubble base of the north pier may now be considered as completed, although it may be necessary to add small quantities here and there as the blocks are set. The amount deposited in January was 7,457 tons, and the total quantity of rubble used in the north pier base has been 482,447 tons. The estimated quantity was 479,909 tons.

4. *Concrete Block-making.*—The making of concrete blocks was suspended during the early part of the month as there was no room in the yard for more. In the latter part of January 317 blocks were made, most of these being for the head of the north pier. I reported last month that all the blocks required for the north pier would be finished in January. This, however, is not the case, although there are not now many remaining to be made.

5. *Quarries.*—The out-turn from the quarries has not been very large, as the roughness of the sea interfered greatly with the construction of the rubble bases. From Ambatūr 14,165 tons of laterite were received and from Pallāvaram 13,016 tons of granite rock, giving a total for the month of 27,181 tons. The work at Ambatūr is being reduced to a minimum since the completion of the north pier base, but the Pallāvaram quarry will have to be worked for some months to come.

6. *South Pier Superstructure.*—The progress at the south pier was better than at the north, but was below the average. During January 184 blocks were set, advancing the pier by a length of 106 lineal feet, and making the total length 3,245 feet. Since February 1st the sea has been calm and quiet and the progress at this date is consequently much more rapid. There now remains a length of 712 feet of the south pier to be constructed, of which more than half will be built by the end of March.

7. *South Pier Rubble Base.*—The base of the south pier is well in advance of the block work, and will shortly be well on the way towards completion. During January 15,919 tons of stone were deposited, of which 6,000 tons were brought by

the steam-hoppers. There seems to be every prospect of effecting a saving on the estimated quantity of rubble in the south pier base.

8. *Protective works north of Harbour.*—The condition of the shore to the north of the harbour is now very satisfactory, and by the judicious use of boulders I hope to be able to maintain the present line fairly well. During January 308 tons of stone were used for this purpose, and in addition to this quantity some of the material from existing groynes was utilised to extend the rough revetment. On the general question of the encroachment of the sea and the measures to be taken in consequence Mr. Parkes has addressed Government separately.

9. *Stores received on works.*—Three vessels brought stores from England in the past month, viz.:—

Ship *John Allen*, with 1,067 casks of cement.

„ *Windermere*, with 1,169 casks of cement.

Steamer *Adjutant*, with gauge glasses and sundry stores.

I regret to state that much of the cement on board the *Windermere* is damaged by water, and is rendered useless, but at the present date I am not able to state the full extent of the damage, as the whole cargo is not yet discharged.

10. *Expenditure.*—The expenditure during January has been Rs. 98,757, and the total outlay (approximately) to the end of the month is Rs. 49,56,408.

11. *Plans, &c.*—The usual lithographed plan and two longitudinal sections accompany this report, showing the extent of the rubble bases of both piers and the line of high-water at the end of January. It will be observed that the north base has been tipped too high, which is much to be regretted, but is due to my having kept the steamers at work when the sea was rough rather than lay them off and cancel the running of a stone train.

12. *General.*—The distance between the ends of the two piers on January 31st was 1,410 feet, and at the date of writing it is 1,350 feet, the finished entrance being designed for 550 feet. Each week's work now makes an appreciable difference in the smooth water area, and by the end of next month the protection afforded will be considerable.

13. On the 7th January the works were inspected by the Right Honorable the Governor who visited both piers, the block-making ground and the protective works to the north of the harbour. His Excellency was accompanied by the Chief Engineer of the Public Works Department, and by Mr. Parkes, Engineer-in-Chief of the Harbour Works, who arrived in Madras on January 6th.

No. 4. ORDER THEREON, 1st March 1881, No. 560 W.

ORDERED to be recorded.

(True Extract.)

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

To the Superintendent of Madras Harbour Works.
„ Secretary to the Harbour Works Committee.
„ 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, 1st.

Issued

Recd.

Encl.

G. O., 1st March 1881, No. 560 W.

MARCH.

Nos. 3-4.

Progress Report of the Madras Harbour
Works.—The — for January 1881 re-
corded.

No. 8574

From

THE SUPERINTENDENT,
MADRAS HARBOUR WORKS.

To

Colonel R. H. Sankley, C. E.,
Secretary to Government, P. W. Dept.,
Buildings & Roads,
Fort St. George. — 1st February 1881.
MADRAS, 1st February 1881.

Sir,

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

North Pier. —
Superstructure.

2. The month commenced with favourable
weather and work was carried on fairly well
up to January 6th, but from that date until
the 21st the state of the sea rendered the end of
the North Pier inaccessible and stopped all
progress. Since the 21st the weather has been
more favourable for work, and with the month
of February there seems to have come the usual
smooth sea. In January 114 blocks were set,
advancing the pier by a length of 60 feet, and
bringing the work to within 203 feet of the
actual termination. The Pier-Head is now
being built, and the section of the pier at the
present

present date is 5 blocks in height and 3 blocks in width which entails much more work per row of blocks than formerly, and consequently the rate of advance will not be so rapid as heretofore.

3. The Rubble Base of the North Pier may now be considered as completed, although it may be necessary to add small quantities here and there as the blocks are set. The amount deposited in January was 7457 tons, and the total quantity of rubble used in the North Pier base has been 482447 tons. The estimated quantity was 479904 tons.

4. The making of concrete blocks was suspended during the early part of the month as there was no room in the yard for more. In the latter part of January 307 blocks were made, most of these being for the head of the North Pier. I reported last month that all the blocks required for the North Pier would be finished in January.

North Pier Rubble Base

Concrete Blockmaking

Quarries

January. This however is not the case although there are not now many remaining to be made.

5. The output from the quarries has not been very large as the roughness of the sea interfered greatly with the construction of the rubble bases. From Ambattur 14165 tons of laterite were received and from Pallavaram 13616 tons of granite rock, giving a total for the month of 27781 tons. The work at Ambattur is being reduced to a minimum since the completion of the North Pier Base but the Pallavaram quarry will have to be worked for some months to come.

North Pier Superstructure

6. The progress at the North Pier was better than at the South but was below the average. During January 186 blocks were set advancing the pier by a length of 106 lineal feet and making the total length 3245 feet. Since February 1st the sea has been calm and quiet and the progress at this date is consequently much more rapid. There now remains a length of 712 feet of the South Pier to be constructed, of which more than half will be built by the jet of the tide.

7. The base of the South Pier is well in advance of the blockwork, and will shortly be well on the way towards completion. South Pier
Rubble Base

During January 15,914 tons of stone were deposited, of which 600 tons were brought by the steam hoppers. There seems to be every prospect of effecting, as anticipated, on the estimated quantity of rubble in the South Pier base.

8. The condition of the shore to the North of the Harbour is now very satisfactory, and by the judicious use of boulders I hope to be able to maintain the present line fairly well.

During January 308 tons of stone were used for this purpose, and in addition to this quantity some of the material from existing groynes was utilised to extend the rough revetment. On the general question of the encroachment of the sea and the measures to be taken in consequence Mr. Parkes has addressed Government separately.

9. Three vessels brought stores from England in the past month, namely,

Ship "John Allen" with 1067 casks of cement
"Windermere" 1164 do
Steamer "Effortant" with gunpowder and sundry stores

Protective Works
North Harbour

Stores received
on Works

Expenditure

Plans &c

General

I regret to state that much of the cement on board the "Windermere" is damaged by water, and is rendered useless, but at the present date I am not able to state the full extent of the damage, as the whole cargo is not yet discharged.

10. The expenditure during January has been Rs 8,757, and the total outlay approximately 1 to the end of the month is Rs 49,561.18.

11. The usual lithographed plan and two longitudinal sections accompanying this report, showing the extent of the rubble bases of both piers and the line of High Water at the end of January. It will be observed that the North base has been tipped too high, which is much to be regretted, but is due to my having kept the steamers at work when the sea was rough rather than lay them off and cancel the running of a stone train.

12. The distance between the ends of the two Piers on January 31st was 1410 feet.

ket and at the date of writing, it is 1350
feet the finished entrance being designed
for 550 feet. Each week's work now makes
an appreciable difference in the smooth water
area, and by the end of next month the
protection afforded will be considerable. -

13. On the 7th January the works were
inspected by the Right Honorable the Governor
who visited both piers, the blockmaking ground
and the protective works to the North of
the Harbours. His Excellency was ac-
companied by the Relief Engineer of the
Public Works Department, and by Mr.
Parkes Engineer in charge of the Harbour
Works who arrived in Madras on
January 6th. -

I have the honor to be
Sir,
Your most obedient servant

J. H. Horwgood M. Inst. C.E.
Superintendent
M. W. Works

S.W. 11-1-81.

S.W. 11-1-81.

Buildings & Roads

From
The Superintendent
Madras Harbour Works

1881

Dated 1st February 1881

No of Enclosures 3

Progress Report

Submitted - for the month of
January 1881. -

C.S. 2.

No. 580 W

No. 580 W P.H. S.

Proceedings of the Madras Road

Under date the 1st March 1881.

Read the following:-

From

The Supt. Mr. H. North (H.C. No. 858 of 4. July 1881)

Recorded.

S.

W. H.

S. M. H. Works. ✓
Supt. H.W. Committee ✓
Marine Dept. ✓

10-5-81

PUBLIC WORKS.

1997

1. *Conducting*

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For

9.9. 1881

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Progress Report
of the M. H. Works.

He — for January
18, recorded.

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