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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

p.w. DEPARTMENT

G.O. No.	1204 W	Press.
B.P. No.		Mis.
Dated	12-5-1886	~~198~~

Not to be folded or roughly handled.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

LEAD—the following letter from F. N. THOROWGOOD, Esq., M. Inst., C.E., Superintendent, Madras Harbour Works, to the Secretary to Government, Public Works Department, dated Madras, 5th May 1886, No. 9 W.:—

I have the honor to submit, herewith, a plan and two photographs relating to these works during the past month of April. Before referring in detail to these, I will state the progress made last month.

2. *North pier rubble base.*—The work at the north pier base was small, as we have now got to more important operations at the north pier. Only 332 tons of stone were deposited, and the greatest amount of these were large boulders to protect the bottom of the blocks.

3. *Wavebreaker.*—The wavebreaker, to protect the standing walls, was extended in both directions, 192 blocks having been dropped in April. On the plan is clearly shown in red the amount of wavebreaker now formed. The crane, for forming the wavebreaker, has been working most satisfactorily.

4. *North pier superstructure.*—The swell from the south-east has interfered a good deal with work at rebuilding the north pier, but still I consider we have got a fair piece of work done. There are now 89 feet, lineal, of new work finished, and all thoroughly concreted up. One diving boat has been exclusively engaged on this work, and I think that no better termination to the work could be made preparatory to the storm month of May. The new work is securely tied into the old at every other block.

5. *Withdrawing of cranes.*—On the 28th April both cranes on the north pier were drawn home by locomotive power, so as to be in a secure position for the doubtful weather of May. They travelled home without any serious mishap, but a toothed wheel on the titan broke at the last 20 feet of the journey.

6. The wavebreaker crane I have drawn right in shore as I was anxious to make two more experiments with its balancing powers. The experiments have since been completed.

7. *Blockmaking.*—Blockmaking was only carried on during eleven days in April for want of room in the block ground. It will be resumed this month and I think then need not be stopped for several months. Only 80 blocks of 30 tons each were made in April. Blocks are now being daily removed to the south pier ground and by this means much space will be freed at the north pier platforms where blocks are made.

8. *South pier rubble base.*—Although on a few days the swell stopped work at the south pier base, yet the progress was good on the whole. A total of 16,449 tons was deposited, of which 1,714 tons is due to old blocks blown up by divers in the new line of base. This work will not be carried on during May, as the diving boats are drawn up for repairs and cleaning.

9. *South pier wavebreaker.*—A slight hitch occurred at this branch of the work, as I found that more blocks were being used per lineal foot of pier than was intended, the fact being that more rubble was required below the blocks. I have therefore had to stop the depositing of 30-ton blocks at the extreme end of the breakwater and recommended 250 feet nearer in shore. In the meantime the rubble will be made up to its full depth whenever the sea will permit. There were 104 wavebreaker blocks deposited during April. On the 27th April the south titan was drawn home by locomotive engines and is now in a place of security.

10. *Pallayaram quarries.*—The output from Pallayaram has not been quite so what it was in March, because, from various reasons, trains had to be cancelled. During April five trains ran daily and with fair punctuality, the out-put of stone being 18,508 tons.

11. *Stores from England.*—During April the steamers *Elginshire* and *Ken* arrived with 535 tons of Portland cement and the *Khedive* with railway crossing and stone-crushing jaws.

12. *Plans and photos.*—The plan explains itself to a great extent. I have shown the outer and inner position of the three cranes, the latter being where they now stand. The two pieces of wavebreaker are clearly shown in red at the south point with gap between them (paragraph 9).

13. The photographs give a general view of the wavebreaker at the north and are taken from certain fixed points from which they can be repeated when necessary.

ORDER—dated 12th May 1886, No. 1204 W., Public Works.

Recorded.

(True Extract.)

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

To the Superintendent, Madras Harbour Works.
" Marine Department.
" Newspapers.

Edw. A. Aubrey.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1886) Madras.
PUBLIC WORKS.

Dated May, 12th.

Recd.

Encl.

G.O., 12th May 1886, No. 1204 W.

MAY.

Madras Harbour Works
Progress report for April 1886.

FROM

THE SUPERINTENDENT,

MADRAS HARBOUR WORKS,

To The Honble Col. J. A. Mc Shaw Stewart R. E.
Secretary to Government P. W. Dept.
MADRAS, 5th May 1886.

Sir,

I have the honour to submit herewith a plan and two photographs relating to these works during the past month of April. Before referring in detail to these I will state the progress made last month.

North Pier 2. The work at the North Pier base was small, Rubble Base as we have now got to more important operations at the North Pier - only 332 tons of stone were deposited, and the greater amount of these were large boulders to protect the bottom of the blocks.

Wave breaker 3. The wave breaker to protect the standing walls was extended in both directions 192 blocks having been dropped in April. On the plan is clearly shown in red the amount of wave breaker now formed. The crane for forming the wave breaker has been working most satisfactorily.

North Pier 4. The swell from the S.E. has interfered a Superstructure good deal with work at rebuilding the North Pier, but still I consider we have got a fair piece.

piece of work done - There are now 89 feet
linear of new work finished, and all thoroughly
consolidated up. One diving boat has been ex-
clusively engaged on this work, and I think
that no better termination to the work could be
made preparatory to the storm month of May.
The new work is securely tied into the old
at every other block.

5. On the 25 April both cranes on the Withdrawing of
North pier were drawn home by locomotive cranes
power, so as to be in a secure position for the
doubtful weather of May. They travelled home
without any serious mishap, but a toothed
wheel on the Titan broke at the last 20
feet of the journey.

6. The Wave Breaker crane I have drawn
right in shore as I was anxious to make two
more experiments with its balancing powers.
The experiments have since been completed.

7. Blockmaking was only carried on Blockmaking
during eleven days in April for want of
room in the block ground. It will be re-
sumed this month and I think then
need not be stopped for several months - only
80 blocks of 30 tons each were made in April.

Blocks

207
Blocks are now being daily removed to the
Pier ground, & by this means much space will
be freed at the North Pier platforms where
blocks are made.

South Pier 8. Although on a few days the swell stop-
Rubble Base } ped work at the South Pier base, yet the pro-
gress was good on the whole. A total of 16,449
tons was deposited of which 1714 tons is due to
old blocks blown up by divers in the new
line of base - This work will not be carried
on during May, as the diving boats are
drawn up for repairs and cleaning.

South Pier 9. A slight hitch occurred at this
Wavebreaker } branch of the work, as I found that more
blocks were being used per linear foot of pier
than was intended, the fact being that more
rubble was required below the blocks. I have
therefore had to stop the depositing of 30 ton
blocks at the extreme end of the breakwater
and recommenced 230 feet nearer in shore -
In the meantime the rubble will be made
up to its full depth whenever the sea will
permit. There were 104 wave breaker blocks
deposited during April. On the 27 April
the South Titan was drawn home by loco-
motive engines, and is now in a place of
security.

The out-turn from Pallavaram has Pallavaram
not been quite equal to what it was, in Quarries
March, because from various reasons trains
had to be cancelled. During April 5 trains
ran daily, and with fair punctuality, the
out-put of stone being 18,500 tons.

11 During April the steamers "Elginshire" Stores from
and "Kewa" arrived with 565 tons of Portland England
Cement and the "Rhedive" with railway
crossing and stone crushing jaws.

12 The plan explains itself to a great Plans and
extent. I have shown the outer and inner Photos.
positions of the three cranes, the latter being
where they now stand. The two pieces of
Wavebreaker are clearly shown in red at
the South Pier with gap between them (para. 9)

13 The photographs give a general view
of the Wavebreaker at the North Pier, and
are taken from certain fixed points from
which they can be repeated when necessary.

I have the honour to be,

Sir,

Your most Obedt Servant,

A. L. Popper

for Superintendent,

Madras Harbour Works.

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Buildings & Roads

Recon. 13th
Clarks From

The Superintendent
Madras Harbour Works

5/5/86



M. G. W.
Dated 4th May 1886

No of Enclosures three

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30/5/86

Supt. M. H. Works
Marine Dept.
Newspapers

Progress Report

Submits — of works for
the month of April 1886.

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OFFICE OF THE COMMISSIONER

PUBLIC WORKS.

13/4

12th May 1884

Mr. H. W. W. W.

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For report
for April 86.

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12/5/86