

புத்தகங்கள் எண்ணிக்கை 9
 4348 ரூபாய் 7-6-88
 கீழ்க்கண்டிருப்பவை சிவசுப்பிரமணியன்
 10/6/88

புத்தகங்கள்

நா 104

ஆ 11-1-1888

புத்தகங்கள்

96

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from R. W. BARLOW, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, Marine Department, dated Madras, 19th December 1887, No. 5496:—

I have the honor to forward herewith, for the information of Government, copy of a letter from the Superintendent, Madras Harbour Works, No. 1125, dated 10th December 1887, submitting a brief report upon works done in the Engineering Department of the Harbour during the month of November 1887.

ENCLOSURE.

From F. N. THOROWGOOD, Esq., Superintendent, Madras Harbour Works, to the Chairman, Harbour Trust Board, dated Madras, 10th December 1887, No. 1125.

I have the honor to submit a brief account of what has been done in the Engineering Department of the Harbour during November, but on this occasion such a statement can hardly be termed a report of progress.

2. *North Pier, Harbour Works.*—At the north pier I moved out the wave-breaker crane on 19th November and up to the 23rd deposited forty-five 30-ton blocks in the wave-breaker at spots where the full width of protection was hardly maintained. This was done more with an idea in my own mind of finishing all work at the north pier with this crane, so that in the event of No. III design of entrance being insisted upon, the crane may at once be dismantled for transfer to the south pier.

3. *Concrete Blocks.*—No concrete blocks were made during November for reasons which are explained in other correspondence. The delay in block-making is not, under existing circumstances, of serious importance to the works, but it has one bad result, namely, to increase the actual cost of concrete per cubic yard, as there are many charges that have to be debited to concrete blocks while no concrete blocks are being made. The estimated cost per cubic yard (arrived at by previous experience from 1876 to 1882) is Rs. 9, the actual cost is, however, Rs. 10-4-0.

4. *Quarries.*—No stone has been received from Pallavaram during November, but the quarry lines have been maintained in good order and repair.

5. *Plant and Machinery.*—The stone-crushing machines have been put into good working order, and the boilers and engines of the whole machinery examined. I am sorry to report that two of the stationary boilers will need most heavy repairs before a year is out. They have been working since December 1876, and have once been repaired thoroughly in 1883. It will take nearly four years to make the concrete blocks required for No. III design of entrance.

6. The 40-ton Goliath crane at the south pier block ground is being renewed in all points but ironwork. The work is getting on well, the men working overtime at it. The mooring chains and bridles of mooring gear are all being overhauled and tarred.

7. *General work.*—Of general Engineering work of the Harbour the following is a brief description:—A platform for export goods has been erected at north-west corner of the approach to the iron pier. This platform is of such a height that hand-carts can easily unload their goods on to it, and from it the trucks on the pier railways can be as easily loaded. A line of railway runs along the south and the east of the platform, and these lines are to be joined by a turntable. A shed to cover the platform is being built.

8. *Iron Pier*.—The cranes on the iron pier are by degrees being put into good order and repair, but with some of the lighter ones much remains to be done. A new jib crane is being constructed out of parts found lying on the beach.

9. The work of repairing the flooring and superstructure of the iron pier is delayed for want of timber, and I believe some difficulty has arisen in getting the man, whose tender for timber was accepted, either to sign an agreement or to deliver timber. The delay is to be lamented.

10. *Cement wanted*.—A supply of cement is needed for the Harbour Works, no news having yet been received of the 2,000 tons asked for in July 1887.

Transferred to the Public Works Department.

(By Order.)

FORT ST. GEORGE,
5th January 1888.

(Signed) W. S. MEYER,
Asst. Secy. to Govt., Marine Dept.

ORDER—dated 11th January 1888, No. 104 W., Public Works.

Recorded.

2. With reference to paragraph 10 of the Superintendent's report, the Secretary of State has been requested by wire to expedite the supply of the cement in question.

(True Extract.)

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

To the Chairman, Harbour Trust Board.
„ Marine Department.

Exd. J. Moses,
Spare Copies

104
2

BUILDINGS AND ROADS.
CIVIL WORKS.

Gobt. of (1888) Madras.

PUBLIC WORKS.

Dated January, 11th.

Recd.

Encl.

G.O., 11th Jan. 1888, No. 104 W.

JANUARY.

Madras Harbour Works

Progress report of the — for November
1887, recorded.

6TH DECEMBER 1887, No. 3346 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from R. W. BARLOW, Esq., C.S., Chairman, Harbour Trust Board, Madras, to the Chief Secretary to Government, dated Madras, 28th November 1887, No. 5075:—

I have the honor to forward herewith, for the information of Government, copy of a letter from the Superintendent, Madras Harbour Works, No. 1006, dated 14th November 1887, reporting upon the progress made on the Madras Harbour Works, during the month of October 1887, with a plan in original (to be returned).

2. Should no intimation of the despatch of the cement alluded to in the last paragraph have been received by Government, I would ask that a telegram be despatched to the Secretary of State, as, should cement not arrive very soon, delay to the works may result.

ENCLOSURE.

From F. N. THOROWGOOD, Esq., Superintendent, Madras Harbour Works, to the Chairman, Harbour Trust Board, dated Madras, 14th November 1887, No. 1006.

I have the honor to submit herewith a plan showing the state of these works and of the beach generally on 31st October 1887, and at the same time a report of progress during October.

2. I have deferred sending in a report until I had examined all the works thoroughly in company with Mr. A. L. Pogson, and, although the small progress at the south pier is disappointing, I find everything in excellent order, and I think that Mr. Pogson has managed all that he has had to do in a highly creditable manner.

3. *North Pier Works.*—At the north pier nothing whatever was done in October beyond depositing four blocks in the wave-breaker, the blocks having been picked up from the south pier foundations and brought round to the other side by rail. The north pier is in good order, and the small cyclonic storm of 9th October in no way disturbed the wave-breaker blocks.

4. *South Pier Works.*—At the south pier a little work was done, but the sudden storm on the 9th interfered seriously with the protective work which is essential to the present section. There were 218 tons of rubble deposited in the base for levelling up the bed for the superstructure and 22 blocks were set by the divers, advancing the pier by a length of 12 lineal feet. Since my departure to England on 28th June 1887 the advance of the south pier has only been 79 feet, which is not an encouraging rate of progress. I can assure the Board, however, that the difficulty of working under water at the present termination of the south pier is immense, the seas coming through the gaps in the old work with overwhelming force and knocking the divers about in a manner that is very dangerous. I confidently hope that, when about 40 feet more work is completed, progress will be more rapid.

5. On 5th October the Titan crane was put into order for turning round so as to deposit wave-breaker blocks to the south of the newly built work, and on the 6th it was turned round. On the 7th there were 24 blocks deposited, and the crane was shifted shorewards ready to deposit another set of blocks. It so happened, however, that a cyclone occurred on 9th October, and for four days nothing whatever could be done, as the sea broke heavily over and around the Titan. With no small difficulty on the 14th and 15th the crane was withdrawn and made secure.

6. This is the first occasion on which, since the works were commenced, a cyclone has occurred after May and before 15th October. Although on this occasion the Titan crane was exposed to some risk, I do not consider it would be advisable in future to withdraw the cranes at an earlier date than 14th October.

7. The superstructure of the south pier is now secured by iron cramps, but the sudden storm of the 9th put a complete stop to the work of forming the screen of wave-breaker blocks.

8. *Concrete Block-making.*—The work of making concrete blocks has not been going on satisfactorily, and only 53 blocks were turned out in October. The contractor did not start work until the 3rd October, nor did he work from the 8th to the 13th, on which date only 2 blocks were made in the day. This work is now stopped in order to renew the jaws of the stone-crushing machines. It is as well perhaps to note that the machinery and plant for block-making is capable of turning out 18 blocks daily, and the present contractor has only been asked to make 9 daily, which he fails to do.

9. *Pallavaram Quarries.*—Very little work was done at Pallavaram, and only 1,014 tons of stone were received during October. On the 17th Mr. Pogson, assisted by the Sub-Engineer, measured up the whole of the stone on stock at the quarry with a view towards making a payment on account to the quarry contractor.

10. *Improvements on the Beach, &c.*—A considerable amount of useful work has been done on the beach and on the iron pier during October, as will be seen on the accompanying plan, where the new railway sidings are shown in red lines. There have been 2,319 lineal feet of railway lines with eleven sets of points and crossings laid in, and the benefit of this work is already felt. I think it will be advisable to place stop blocks across the two lines that run directly on to the beach railway so as to prevent any chance of a wagon or truck coming in collision with Harbour Works engines or block trucks.

11. *Stores from England.*—The steamers *Nararino* and *Ganges* arrived in October and brought on four pairs of stone-crusher jaws which are much needed, trolley wheels, grind-stones, a new hydraulic cylinder for a crane, and sundry other stores.

Portland cement, 2,000 tons of which was indentured for on 23rd July 1887, is much needed. It would, I think, be good economy to telegraph to England to hasten the supply.

Transferred to the Public Works Department.

(By Order.)

FORT ST. GEORGE,
1st December 1887.

(Signed) W. S. MEYER,
Asst. Secretary to Govt., Marine Dept.

ORDER—dated 6th December 1887, No. 3346 W., Public Works.

The report will be recorded, and the Secretary of State requested by telegram to expedite the supply of Portland cement indentured for in July.

Telegram.—Please expedite supply of 2,000 tons Portland cement, Madras Harbour Works indent of July.

(True Extract.)

(Signed) J. O. HASTED, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Chairman, Harbour Trust Board, with one plan.
" Marine Department.

Encl. J. Moses.
Spars Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1887) Madras.
PUBLIC WORKS.

Dated December, 6th.

Recd.

Encl.

G.O., 6th Dec. 1887, No. 3346 W.

DECEMBER.

Madras Harbour Works

Progress report of the — for the month of October 1887, recorded, and the Secretary of State requested by telegram to expedite the supply of Portland cement indented for in July.

CURRENT NO. 1118

Harbour Trust Board Office,

MADRAS, 19th December 1887

No. 5296

104/5

FROM

A. W. Barclay Esquire. Esq.

CHAIRMAN, HARBOUR TRUST BOARD,

MADRAS,

TO

The Honorable Mr. H. C. Stokely

CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

Fort Saint George.

Sir

I have the honor to forward herewith for the information of Government copy of a letter from the Superintendent, Madras Harbour Works, No. 1125 dated 10th December 1887, submitting a brief report upon works done in the engineering department of the Harbour during the month of November 1887.

I have the honor to be

Sir

Your most Obedient servant

A. W. Barclay

Chairman

From

The Superintendent
Madras Harbour Works

To

R. W. Barlow Esquire C.S. 10/6
Chairman
Harbour Trust Board.
Madras.

Madras 10th December 1897.

Sir

I have the honor to submit
a brief account of what has been
done in the engineering department
of the Harbour during November,
but on this occasion such a
statement can hardly be termed
a report of progress.

North Pier 2. At the North Pier I moved out
Harbour Works. the Wave breaker Crane on November
19th and up to the 23rd deposited
forty five 30 ton blocks in the wave
breaker at spots where the full
width of protection was hardly
maintained. This was done more
with an idea in my own mind of
finishing all work at the North
Pier with this Crane so that

entrance being insisted upon the crane may at once be dismantled for transfer to the South pier.

3. No Concrete blocks were made Concrete Blocks during November for reasons which are explained in other correspondence. The delay in blockmaking is not ~~is not~~ under existing circumstances, of serious importance to the works, but it has one bad result, namely to increase the actual cost of concrete per cubic yard, as there are many charges that have to be debited to concrete blocks while no concrete blocks are being made. The estimated cost per cubic yard (arrived at by previous experience from 1876 to 1882) is Rs 9, the actual cost is however Rs 10 $\frac{1}{4}$.

4. No stone has been received from Pallavaram during November, but the quarry lines have been maintained in good order and repair. Quarries

5. The stone crushing machines Plant & Machinery into road works.

8/13 of the whole machinery examined. I am sorry to report that 2 of the stationary boilers will need ^{very} heavy repairs before a year is out. They have been working since December 1876, and have once been repaired thoroughly in 1883. It will take nearly 4 years to make the concrete blocks required for No. III design of entrance. ^{10/1}

6. The 40 ton Goliath crane at the South Pier block ground is being renewed in all points but ironwork. The work is getting on well, the men working overtime at it. The hooking chains and bridles of hooking gear are all being overhauled and tarred.

General work. 7. Of general engineering work of the Harbour the following is a brief description. A platform for export goods has been erected at N. W. Corner of the approach to the Iron pier. This platform is of such a height that hand carts can easily unload their goods on to it, and the trucks on the pier easily loaded.

A line of railway runs along the south and the east of the platform and these lines are to be joined by a turn table. A shed to cover the platform is being built.

8. The cranes on the Iron pier are by degrees being put into good order and repair, but with some of the lighter ones much remains to be done. A new jib crane is being constructed out of parts found lying on the beach.

9. The work of repairing the flooring and superstructure of the Iron pier is delayed for want of timber, and I believe some difficulty has arisen in getting the man whose tender for timber was accepted either to sign an agreement or to deliver timber. The delay is to be lamented.

10. A supply of cement is needed for the Harbour Works no news having yet been received of the 2,000 tons asked for in July 1887.

I have the honor to be
Sir,

Your most obedient servant

Wm. H. Ashmole

1. The Copy of the Harbour Works

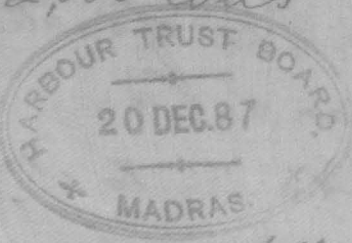
Assistant

Iron Pier

E. 1

11/12/87

Cement
wanted



See above
last page
P.S.
etc.

N^o 3346. 6. 12. 87

N^o 3346 Waf 6. 12. 87



75 January 1888

Transferred to the Public

Works Department.

By order.

W. L. Meyer

Asst Secy to Govt.

No 104 Waf 11th January 1888

777

107

Recorded.

2. With reference to para 10 of the Supt's report, the Secretary of State has been requested by wire to expedite the supply of the cement in question.

man
9. 1. 88

9/1/88

Chairman M.T. Board

Marine Dept

9. 1. 88

276/124
CURRENT NO 1118

MARINE DEPARTMENT.

FROM

THE CHAIRMAN,

HARBOUR TRUST BOARD,

MADRAS.

TO

THE CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

Fort Saint George

DATED 19th December 1887.

RECEIVED 20 6. 1. 88

ENCLOSURE 1

No. 5496

SUBJECT.

Submitting for the information of Govt a brief report upon works done in the engineering department of the Harbour during November 1887.



Indra

124

Govt. of 1888 Madras.

PUBLIC WORKS.

Date

Recd.

Encl.

G.O. 11 Jan 1888 No. 104 w

Madras Harbour Works

for Proper report of the

for Nov 787. Recorded

706

5/1/88