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 (2) Date of repair May. 88
 (3) Initials of the Referencer SR

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D. DEPARTMENT

G.O. No.	3346. IX	Press.
B.P. No.		Mis.
Dated	6.12.1887	197 .

SR

Not to be folded or roughly handled

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 78 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 2,318 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 *Narvino* and *Ganges* arrived in October and brought out four pairs of stone-crusher jaws which are much needed, trdly wheels, grind-stones, a new hydraulic cylinder for a crane, and sundry other stores.

Portland cement, 2,000 tons of which were indented 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 indented for in July.

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

(True Extract.)

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

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

Ed. J. Mores.
Spars Copies

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BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 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.

28th JULY 1887, No. 2026 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from the Honorable R. W. BARLOW, C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 25th July 1887, No. 2010:—

I have the honor to forward, for the information of Government, copy of a letter, No. 441, received from the Acting Superintendent, Madras Harbour Works, in reference to an indent for stores required from England.

2. This indent has been forwarded to the General Superintendent, Public Works Stores, with a view to the supply of any articles locally available.

3. Referring to paragraph 2, I have the honor to request that a telegram may be despatched indenting for ten pairs of "crusher jaws," and requesting that four pairs may be despatched immediately.

ENCLOSURE.

From A. LEE POGSON, Esq., Acting Superintendent, Madras Harbour Works, to the Chairman, Harbour Trust Board, dated Madras, 25th July 1887, No. 441.

I have the honor to forward, herewith, an indent (triplicate) for stores from England required for these works, and to request that you will be good enough to send it to the General Superintendent, Public Works Stores, with a view to his supplying any item which may be had in his department, afterwards submitting it to Government for compliance in England.

2. When the last indent was submitted, in February 1887, no crusher jaws were mentioned owing to some mistake as to the number in stock, and as I have just issued the last pair, I fear, unless a fresh supply is received within 2 or 3 months, at the outside, black-making will be stopped, and to prevent this, I would suggest telegraphing direct to Mr. Parkes, who is the only means of getting the right pattern of jaw shipped. The following telegram will make matters clear, cost of which will be Rs. 45:—

From POGSON, to PARKES, London.

"Ten pairs crusher jaws indented for. Require four pairs immediately, before sanction."

Transferred to the Public Works Department.

(By Order.)

OOTACAMUND,
27th July 1887.

(Signed) W. S. MEYER,
Acting Assistant Secretary.

ORDER—dated 28th July 1887, No. 2026 W., Public Works.

The following telegram will be forwarded to the Secretary of State for India:—

"In anticipation of indent, please send immediately four pairs crusher jaws for Madras Harbour Works."

(True Extract.)

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

To the Chairman, Madras Harbour Trust Board.
" Marine Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of Madras.
PUBLIC WORKS.

Dated July, 28th.

Recd.

Encl.

G.O., 28th July 1887, No. 2026 W.

JULY.

Madras Harbour Works

The Secretary of State requested to send at once, in anticipation of indent, four pairs crusher jaws for the — .

20th August 1887, Nos. 2233, 2234, 2235 W., Public Works.

93/46

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following papers:—

From the Honorable R. W. BARLOW, C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, dated Madras, 8th August 1887, No. 2373.

I have the honor to forward herewith, in triplicate, for transmission to England indent for sundry stores required by the Superintendent of the Madras Harbour Works for harbour construction.

2. I also enclose copy of a letter, No. 434 S., dated 26th July 1887, from the General Superintendent, Public Works Stores, intimating that the following can be supplied by him:—

Item No. 13, iron flat, 2½" x 1½", bars 20,
" " 19, iron round, 1½", bars 12,

and the indent has been altered accordingly.

ENCLOSURE.

From A. JOYCE, Esq., General Superintendent, Public Works Stores, to the Secretary, Harbour Trust Board, dated Madras, 26th July 1887, No. 434 S.

In returning indent, in triplicate, on the Home Government, received with your letter, No. 2005, dated 25th July 1887, I have the honor to state that the undermentioned articles are available in the Public Works Stores, and can be supplied if indented for at once:—

Item 13, iron flat, 2½" x 1½", bars 20,
" 19, iron round 1½", bars 12.

Transferred to the Public Works Department.

(By Order.)

COTACAMUND,
15th August 1887.

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

Ordered—dated 20th August 1887, No. 2233 W., Public Works.

Ordered to be forwarded to the Home Government for compliance.

(Here enter Nos. 2234, 2235 W., dated 20th August 1887.)

(True Extract.)

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

To the Chairman, Madras Harbour Trust Board,
" Marine Department.

LETTER—to the Director-General of Stores, India Office, London, dated Fort St. George, 20th August 1887, Nos. 2234, 2235 W.

I am directed to forward, for compliance, an indent for stores required for the Madras Harbour Works, and to state that it includes the four pairs crusher jaws asked for in telegram from this Government, dated 28th July 1887.

2. The usual certificate by the Examiner, Public Works Accounts, is not attached, as the expenditure on the works is not now audited by that officer, but I am to state that provision to meet the cost of the stores has been made in the estimates of the Harbour Works for the current year.

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

ENDORSEMENT—dated 20th August 1887, No. 2235 W., Public Works.

Copy of the above, with copy of the indent, forwarded to the Government of India.

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

33486
/5

GENERAL
ACCOUNT.

Govt. of (1887) Madras.
PUBLIC WORKS.

Dated August, 20th.

Recd.

Encl.

G.O., 20th Aug. 1887, Nos. 2233,
2234, 2235 W.

AUGUST.

Stores required for the Madras
Harbour Works

Forwarding copy of letter to the Director-General of Stores with copy of instant for certain —.

21st November 1887, No. 3143 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, 7th November 1887, No. 4676.

I have the honor to forward herewith, for the information of Government, copy of a letter from the Acting Superintendent, Madras Harbour Works, No. 908, dated 12th October 1887, reporting upon the progress made on the Madras Harbour Works during the month of September 1887, with a plan in original (to be returned).

ENCLOSURE.

From A. LEE POISSON, Esq., Acting Superintendent, Madras Harbour Works, to the Chairman, Harbour Trust Board, dated Madras, 12th October 1887, No. 908.

I have the honor to submit the following very brief report of the progress made on these works during the month of September 1887, with a plan showing in red the length of pier built of the new bonded section.

2. *North Pier works.*—Nothing has been done to advance the north pier, or the rubble base, since May last.

3. *South Pier works.*—During the greater part of the month the sea was too rough for a diver to work below water, consequently a very poor advance was made, when only 50 blocks of 30 tons a piece were set in position, advancing the south pier curve by 30½ feet only, as much of the time was taken up in removing from the centre line several of the old superstructure blocks which were overthrown a year-and-a-half ago.

4. *Concrete Block-making.*—Block-making was carried on very unsatisfactorily during the month, the contractor's outturn being only 132 blocks.

5. The number of blocks turned out by the former contractor in October last, notwithstanding stoppages by rain, &c., amounted to 218 blocks.

6. *Pallacaram Quarries.*—Thirteen trains of 35 wagons of stone only were required during the month, which brought to Madras 2,603½ tons of chips for block-making.

7. *Pontoon.*—The Pontoon, having thoroughly removed the old Titan crane which was wrecked at the south pier head, was transferred early in the month to the north pier, where several old blocks have been successfully lifted off the wrecked Titan crane belonging to this pier, so exposing the old crane that there will be no difficulty in raising and removing the whole of it early next working season.

8. *Stores from England.*—The following stores were received during September from England:—

By the S.S. *Wardha*, 1,348 casks containing 249 tons 14 cwt. 1 qr. of Portland cement, also 15 cwt. of French nails and one grind-stone with frame, &c.

By the S.S. *Saba*, 280 24 feet light steel rails were received.

Two hundred and eighty broad-gauge sleepers were received from Palghat, supplied under contract by a merchant named M. O. Nagaya Chetty.

9. *Miscellaneous.*—The amount of work turned out by the contingent establishment under the heads of new works and repairs to iron pier machinery, moorings, laying of railway lines, &c., including the total of sanctioned estimates completed during September, amounts to Rs. 4,410-10-5.

3346
7

21st November 1887, No. 3143 W., Public Works.

Transferred to the Public Works Department.
(By Order.)

Fleet St. George,
14th November 1887.

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

Order—dated 21st November 1887, No. 3143 W., Public Works.

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

To the Chairman, Harbour Trust Board,
Marine Department.

Edw. J. Moss.
Spare Copies

BUILDINGS AND ROADS,
CIVIL WORKS.

Govt. of Madras.
PUBLIC WORKS.

Dated November, 21st.

Recd.

Encl.

G.O., 21st Nov. 1887, No. 3143 W.

NOVEMBER.

Madras Harbour Works

Progress report of the — for the month
of September 1887, recorded.

1057
Harbour Trust Board Office,

MADRAS, 28 November 1887

No. 2075

27/11/87

FROM

R. W. Barber Esq. & Co.

CHAIRMAN, HARBOUR TRUST BOARD,

MADRAS,

TO

The Hon. H. S. Stokes Esq.

CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

Fort Saint George.

Sir

I have the honor to forward
herewith for the information of Govern-
ment, copy of a letter from the
Superintendent of Madras Harbour
Works No 1006 dated 14 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).

Should

Should no indication of
the despatch of the cement arrived
to me the last paper 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.

I have the honor to be
sir
your most
Obedt Servant

W. M. Mearns
Chairman
Harbour Trust to work

Madras
No. 1006 14th November 1887
From The Superintendent
Madras Harbour Works
To The Chairman
Harbour Trust Board
Madras

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

I have deferred sending in a report
until I had examined all the works thoroughly
in company with Mr. A. F. Ayson, and al-
though the small progress at the South pier
is disappointing I find every thing in ex-
cellent order and I think that Mr. Ayson
has managed all that he has had to do
in a highly creditable manner.

At the North pier nothing whatever
was done in October beyond depositing 14
blocks

blocks in the beam 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 October 9th in no way disturbed the beam breaker blocks.

At the South pier a little more had been 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 June 28th 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 sea coming through the gaps in the old work with overwhelming force and raising 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.

On October 5th the Titan crane was put into order for turning round so as to deposit beam breaker blocks to the South of the newly built pier, 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 October 9th and for four days nothing whatever could be done as the sea broke heavily over and around the Tides. With no small difficulty on the 14th & 15th the crane was withdrawn and made secure.

This is the first occasion on which since the works were commenced, a cyclone has occurred again. On May 1st 1888, 18th. 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 crane at an earlier date than October 1st.

The superstructure of the South pier is now secured by iron chains, but the sudden storm of the 9th put a complete stop to the work of forming the base of the beam breaker.

in 400-1-11-07

MARINE DEPARTMENT.

FROM
THE CHAIRMAN,
HARBOUR TRUST BOARD,
MADRAS.

TO
THE CHIEF SECRETARY TO GOVERNMENT,
Marine Department.

DATED 28 } November 1887
RECEIVED

ENCLOSURE (2)
No. 5775

SUBJECT.

Submitting progress
report of the Harbour
works for October 1887
with a plan and
requesting that a tele-
gram be dispatched
to the Secretary of State
for the supply of cement.



85 of Dec 1887
Transferred to the Public
Works Department.

By order.

As per
Acct. Secy. to Govt.

G.O. 31434 of 21-4-87
- 22334 - 10-8-87
- 20264 - 18-7-87

139 R
clerk

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

From the Chairman Harbour
Trust Board } H.C. No. 5075 of 18th Nov 87
Endorsement in the Marine
Dept } dated 18th Dec 87

The reports will be
referred, and the Secy
of State requested by
telegram to expedite
the supply of Portland
Cement indentured for in
July.

Chairman H & B and
Marine Dept

Telegram.

Reise expedite supply
of 2000 tons Portland
Cement Madras Harbour
Works Indent of July.

Received

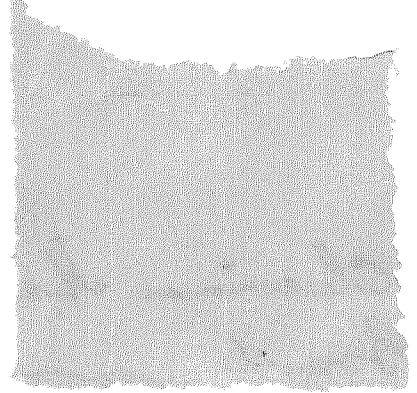
London.

Ulligato sistitis expeditio
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Telegram dispatched
6-12-87.

1887
12-12-87

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Dept. of Public Works

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6" 600 3346W

Madras Harbour Works

Progress report of the
for the month of October
1887, received and the
Secy. of State requested
by telegram to expedite
the supply of Portland
Cement indented for
in July. ~~for the same~~

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