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11TH JANUARY 1888, No. 105 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following despatch from the Right Honorable Viscount CROSS, Her Majesty's Secretary of State for India, to His Excellency the Right Honorable the Governor in Council, Fort St. George, dated India Office, London, 8th December 1887, No. 1 P.W. (Stores). :—

With reference to your Secretary's letter in this Department, No. 2234 W., dated 20th August 1887, addressed to the Director-General of Stores in this Office, forwarding an indent for stores for the Madras Harbour Works, I have to inform your Excellency that I have sanctioned the supply of the stores required, with the exception of 2,000 tons of Portland cement, the provision of which will be withheld until a decision has been arrived at on the recommendations of the Committee as to the entrance of the harbour.

2. The four pairs of crusher jaws asked for in the telegram, dated 28th July 1887, have already been despatched.

ORDER—dated 11th January 1888, No. 105 W., Public Works.

Communicated to the Chairman, Harbour Trust Board, with reference to G.O., No. 2233 W., dated 20th August 1887.

2. The Secretary of State will be requested by wire to expedite the supply of the cement in question, the Superintendent having reported, in paragraph 10 of his letter No. 1125, dated 10th December 1887, that the cement is needed for the works.

(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.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1888) Madras.
PUBLIC WORKS.

Dated January, 11th.

Recd.

Encl.

G.O., 11th Jan. 1888, No. 105W.

JANUARY.

Madras Harbour Works

Despatch from the Secretary of State for India sanctioning indent for stores required for the —, communicated to the Chairman, Harbour Trust Board, and the Secretary of State requested by wire to expedite the supply of Portland cement.

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 was 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 *Navarino* and *Ganges* arrived in October and brought out four pairs of stone-crusher jaws which are much needed, trolly 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.)

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

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

Exd. J. Moses.
Spare Copies

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BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1887) Madras.
PUBLIC WORKS.

10514
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.

10514
India Office,
London, 8th December 1887.

Public Works (Stores),
No. 1.

To His Excellency The Right Honourable The Governor
in Council, Fort St. George.

MY LORD,

With reference to your Secretary's letter in this Department, No. 2234 W, dated 20th August 1887, addressed to the Director General of Stores in this Office, forwarding an indent for stores for the Madras Harbour Works, I have to inform your Excellency that I have sanctioned the supply of the stores required, with the exception of 2,000 tons of Portland cement, the provision of which will be withheld until a decision has been arrived at on the recommendations of the Committee as to the entrance of the harbour.

2. The four pairs of crusher jaws asked for in the telegram dated 28th July 1887 have already been despatched.

I have the honour to be,

My Lord,

Your Lordship's most obedient humble Servant,

Lons.

Howe
 No 105 W of 11 - January 1888
 B. H. Woods

P.W. No 171
 No 13

105
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Communicated

to the Chairman Harbour
 Trust Board with reference
 to GO 2233 W of 20th August
 1887.

2. The Secretary of State
 will be requested by
 wire to expedite the
 supply of the cement in
 question, the Supt. having
 reported in para 10 of his
 letter No 1125 of 10th Decr.
 1887 that the cement is
 needed for the works.

The
 Letter to Lord St George
 No 1.

Ry 9/188

W.C.W.
 9.1.88

Jou
 9/1/88

No 2233-SW of 8.87
 3346 W of 6.12.87

Chairman H.B.P.
 Marine Dept
 J.B. 14/11
 H.W. 9-1-88

With order

171

Govt. of Madras

PUBLIC WORKS.

17/1/88

Dated

Recd.

Encl.

G.O. 11th Jan 1888 No. 105 W

Madras Harbour

Works

Despatch from the Secy
of State for India inform-
ing that he has sanctioned
the indent for certain
stores reqd for the
Comd to the Chairman
Harbour Trust Board, &
the Secy. of State requested
by wire to expedite the
supply of Portland
Cement.

70/14