

- (1) பக்கங்களின் எண்ணிக்கை 28
 (2) புதுக்கித் திருப்பிய நாள் செப்டம்பர் 1988
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

மெய்யுள்ளி குறை

அரசாணை எண். 3743 W அச்சகம்
 மு. கோப்புத் தாள் எண். பலவகை

நாள் : 27. 11. 1888

பிள்ளை

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

3743
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

From R. W. BARLOW, Esq., C.S., Chairman, Harbour Trust Board, to the Chief Secretary to Government, Marine Department, dated Madras, 29th October 1888, No. 2961.

I have the honor to submit, for the information of Government, and in compliance with G.O., No. 2390 W., Public Works, dated 6th August 1888, copy of a letter from the Board's Engineer, No. 984, dated 16th October 1888, reporting in greater detail upon the progress made on the Harbour Works during the month of August 1888, together with a chart in duplicate, and statements showing comparison of expenditure for that month and the total up to the 31st idem.

2. The Engineer has been authorised to proceed with the necessary "capping," referred to at para. 5, so as to give it time to harden. This work will be necessary under any circumstances.

ENCLOSURES.

From A. L. POGSON, Esq., Engineer, Harbour Trust Board, to the Chairman, Harbour Trust Board, dated Madras, 16th October 1888, No. 984.

I have the honor to forward my report upon the progress made on these works during the month of August with a plan in duplicate showing in red the length of pier built in the month.

2. With this report I submit a list of the return of work done during the month and a statement of the comparison of expenditure to date, with the sanctioned design, which I trust will meet the extra information called for in G.O., No. 2065 W., dated 9th July 1888, and G.O., No. 2390 W., dated 6th August 1888.

3. Under the above Government Orders these reports of progress must in future be some six weeks later than they have hitherto been, as the expenditure list cannot be closed until all the receipts and store accounts have been received and adjusted.

4. *Surveys.*—It is with regret I have to report that, owing to the unusual rough state of the sea, I have been compelled to abandon the attempt to make a survey of the roadstead this year. The soundings on record and accepted by Mr. Parkes are for the years 1882 and 1886, so that the next due will be in 1890, but it was my intention to repeat the survey every two years. Should the weather prove more favorable, I will endeavour to repeat the soundings outside the southern arm, called for in your letter No. 603, dated 9th May 1887.

5. *North Pier works.*—No work whatever was done at the north pier, but as soon as the Trustees can inform me that it has been decided not to remove any of the new work (already built) to form a north-eastern entrance, I will add the necessary capping, which takes time to harden, and thus prevent delaying the work in the event of an order being received to proceed with this arm.

6. *South Pier works.*—Block-setting at the south pier was impossible for the greater part of the month owing to the heavy seas washing over the old wall, rendering it impossible for a diver to keep his feet. Throughout the month there were only nine days in which the divers could work below, and during this time good progress was made when 80 blocks were placed in position advancing the superstructure by 50 feet, so that the total length of the south pier completed to the 31st August 1888 (from the first block on shore) is 3,179 feet, of which 792 feet is of the new bonded work.

7. *Concrete block-making.*—The work of block-making was commenced on the 23rd August, and by the 31st 88 blocks had been turned out, of which 67 are for the superstructure and 21 for the wavebreaker.

8. The total quantity of concrete = 1,472 cubic yards.

9. *Pallavaram quarries.*—Very little quarrying was done at the Pallavaram quarries during August owing to there being no rubble required for tipping; consequently only 19 trains ran during the month bringing down 3,560½ tons of chips for block-making. The railway lines were maintained in good order and repair.

10. *Stores, &c.*—Portland cement from England.—The steamers "Rewa" and "Roma" brought out 2,808 casks of Portland cement, containing 501½ tons.

11. *Firewood local supply.*—One hundred and fifty tons of green casuarina firewood was delivered by the contractor under contract.

12. *Beach improvements.*—The beach improvements sanctioned under estimate No. 585 for Rs. 1,06,472 are being steadily carried out, and during August the foundation and platform for the south goods shed was completed and the platform for the north shed commenced. The iron work for the roofing, &c., to the south shed was nearing completion.

13. Several trains and trucks were repaired and four new 8-ton trucks, Nos. 8, 9, 10 and 11, were completed and handed over to the Traffic Manager of the pier.

14. *Iron Pier repairs.*—One hundred running feet (for the half width) of the decking to the screw pile pier was ripped up and completely replaced with new timber planking, &c., besides fixing a few new pile caps.

15. Two hundred and ninety-five running feet of wrought iron piping was laid at the shore end of the pier, which now completes the arrangement for supplying fresh water for the shipping from the end of the iron pier.

MADRAS HARBOUR WORKS.

RETURN of work accompanying progress report for August 1888.

Railway lines.—The lines along the beach and at the quarries were kept in repair, and 55 running feet of temporary broad gauge line was laid on the south pier.

2. *Quarries.*—Nineteen trains worked in the month of August bringing the following stone to the works, viz.—

Rubble.—None received since 30th June 1888.

Chips.				TONS.
Total quantity received up to 31st August 1888	...	...	...	1,09,825½
Do. do. to 31st July 1888	...	...	...	1,06,260½
				3,560½

Ballast.—None received.

North Pier surf bank.—Nothing done since 31st December 1886.

Do. rubble base.—	Do. 30th April 1887.
Do. superstructure.—	Do. 29th February 1888.
Do. supplementary works.—	Do. 30th September 1887.
Do. capping.—	Do. 31st May 1887.
Do. cramps.—	Do. 30th April 1888.
South Pier surf bank.—	
Do. rubble base.—	

South Pier superstructure.				TONS.
Blocks set up to 31st August	...	...	...	1,183 19,191½
Do. 31st July	...	...	...	1,103 17,872½
In August ...				80 1,319½
Running feet of new wall built up to 31st August				792
Do. do. to 31st July 1888	...	...	...	742
In August ...				50
Total length of wall completed from E				3,179
Do. do. G	...	...	...	792
South Pier supplementary works.—Nothing done since 30th April 1888.				
Do. capping.—	Do. 30th June	...	...	...
Do. cramps.—	Do. 30th April	...	...	...
Protective works.—Nothing done.				

Concrete blocks.

Description of blocks.	Made up to 31st July 1888.	Made in August.	Made up to 31st August 1888.	PLACED IN WORK.		In hand.
				Up to 31st July 1888.	Up to 31st August 1888.	
Old blocks	806	21	806	806	806	...
Wavebreaker blocks	2,571	...	2,592	1,927	1,927	665
<i>Superstructure.</i>						
North pier bottom blocks	227	...	227	107	108	119
Do. middle	673	...	673	403	405	268
Do. top	222	...	222	123	130	92
South pier bottom	280	...	290	221	145	145
Do. middle	754	48	802	587	633	169
Do. top	285	9	294	219	233	61
Special	71	...	71	71	71	...
Counterbalance	1	...	1	...	...	1

One thousand four hundred and seventy-one and seven-ninth cubic yards concrete blocks made in the month.

One hundred and fifty-six wavebreaker blocks were transferred from the north to south pier block ground and stacked.

One thousand and fifty-four tons cement was the balance in store at the end of the month.

3. *Tools and Plant.*—No. 2 *Stonecrusher.*—Two new jaws side wedges and set plates fixed, No. 3 crane on the mixing platform was thoroughly repaired, three concrete skips were repaired, No. 1 concrete-mixer pump was supplied with a new valve.

The running shed was supplied with two new water columns. The wooden platform of a weighing-scale was renewed; two monkey spanners and three pairs of dies were repaired and 32 drifts were made for fitting shop; 140 turned bolts and rivets were made for the wavebreaker crane; eight mooring beacons were made and erected for the Deputy Conservator.

No. 1 *Locomotive Engine.*—Valve spindle gland stud and two new studs for waste water cock gearings fitted; brass bearing, connecting and coupling rods closed; steam valve injector repaired, tyres chipped and boiler cocks ground.

No. 2 *Locomotive Engine.*—Brass bearings, connecting and coupling rods closed; a new brake fitted and four buffers repaired.

No. 3 *Locomotive Engine.*—Brass bearing closed, cocks ground, and injector repaired.

Land wagons Nos. 2, 5, 6 and 10 were fitted with new tail brass hinges, &c.

Land wagon-No. 7 fitted with a pair of new wheels.

4. *Wavebreaker Crane.*—The wavebreaker crane was completely dismantled by the 15th and the heavier portions were being transferred to the south pier.

5. *North Pier Titan.*—The north pier titan was kept in good order at its shore station.

6. *South Pier Titan.*—The south pier titan was at the extreme end of the south pier new work building the superstructure.

7. *Beach improvements.*—The platform of the south goods shed was completed and that of the north shed nearing completion, and the iron work of both sheds was well in hand.

8. *Iron Pier*.—One hundred running feet for half width of new timber work was completed and the iron girders for a further 50 feet in length were cut out and removed.

Two hundred and ninety-five running feet wrought iron water piping was laid on the iron pier and one length of 9 feet of cast iron pipe.

MADRAS,
16th October 1888.

(Signed) A. L. POGSON,
Engineer, Harbour Trust Board.

Transferred to the Public Works Department.

(By order.)

7th November 1888.

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

ORDER—dated 27th November 1888, No. 3743 W., Public Works.

Ordered that the report be forwarded to the Secretary of State.

2. The statement of expenditure with which the present report is accompanied will be useful for reference both here and in London. It should therefore be prepared in future in duplicate to admit of one copy being retained in the Secretariat.

(True Extract.)

(Signed) H. R. MEAD, Colonel, R.E.,
Ag. Secretary to Govt., P.W.D.

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

Exd. J. Henricus.
Spare Copies

BUILDINGS AND ROADS,
CIVIL WORKS.

Govt. of (1888) Madras.
PUBLIC WORKS.

Dated November, 27th.

Recd.

Encl.

G.O., 27th Nov. 1888, No. 3743 W.

NOVEMBER.

Madras Harbour Works
Orders on progress report on the — for
August 1888.

27TH NOVEMBER 1888, No. ²⁶ 3743 W., PUBLIC WORKS.

3743
4

PUBLIC WORKS DEPARTMENT.

LETTER—to

THE RIGHT HONORABLE THE SECRETARY OF STATE FOR INDIA.

MY LORD,

In continuation of our despatch No. ¹⁸ 3030 W., dated 28th September 1888, we have the honor to forward herewith, for your Lordship's information, the Progress Report of work on the Madras Harbour for the month of August 1888, together with a statement of expenditure to date as compared with the sanctioned estimate, and a plan showing the advance made during the month.

We have the honor to be,

My Lord,

Your Lordship's most obedient, humble servants,

(Signed) CONNEMARA.

(") C. G. MASTER.

(") H. E. STOKES.

FORT ST. GEORGE,
27th November 1888.

Exd. J. Henricus.

12/5

GOVT. OF MADRAS.

PUBLIC WORKS DEPARTMENT.

LETTER to the Right Honorable
the Secretary of State for
India.

No. ²⁵_{3743 W.} dated 27th Nov. 1888.

Forwarding Progress Report of work on the
Madras Harbour Works for August 1888.

1023
1P
Harbour Trust Board Office.

MADRAS, 29th October 1888.

No. 2961

3743
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FROM

P. W. Barlow Esquire b.s.

CHAIRMAN, HARBOUR TRUST BOARD,

MADRAS,

TO

The Honorable Mr. J. H. Price b.s.

Acting CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

Fort Saint George.

Sir

I have the honor to submit
for the information of Govern-
ment, and in compliance with
G.O. No. 2390 W, Public Works,
dated 6th August 1888, Copy of
a letter from the Board of En-
gineers No. 984 dated 16th October
1888, reporting in greater detail
upon the progress made on the
Harbour Works during the month
of August 1888, together with a
Chart in duplicate, and statements
showing comparison of expenditure
for that month, and the total

up to the 31st idem.

2. The Engineer has been authorized to proceed with the necessary "capping", referred to at para 5, so as to give it time to harden. This work will be necessary under any circumstances.

I have the honor to be

Sir

Your most obedient servant

P. sec

M. Mason
Chairman
Harbour Trust Board.

14¹³
9

127-20-20
264-20-20
123050-20-20

7P

Transferred to the

Public works dept

(By order)

Asst. Secy

Asst. Secy



No. 18 428-9-88

3050W 28-9-88

15 2390W 6-8-88

2390W 6-8-88

2065W 9-7-88

1023
MARINE DEPARTMENT.

FROM

THE CHAIRMAN,

HARBOUR TRUST BOARD,

MADRAS,

TO

THE CHIEF SECRETARY TO GOVERNMENT,

Marine Department.

DATED 29 October 1888

RECEIVED

ENCLOSURE

29/10/88

No. 2941

30 OCT 88

SUBJECT.

Submitting for the
information of Govern-
ment Progress Report
of the Madras Harbour
Works for August 1888

No 984

From

The Engineer

Harbour Trust Board

Madras

3743
8

To

The Chairman

Harbour Trust Board

Madras

Madras 16th October 1888

Sir

I have the honor to forward my report upon
the progress made on three works during the month
of August with a plan in duplicate showing in
red the length of Piers built in the month.

2. With this report I submit a list of the Return
of Work done during the month, and a Statement
of the Comparison of Expenditure to date, with
the sanctioned Design which I trust will meet
the extra information called for in G. O. 2065
W dated 9th July 88, and G. O. No. 2390 W dated
6th August 88.

3. Under the above G. O. three reports of Progress
must in future be sent six weeks later than
they have hitherto been as the Expenditure
list cannot be closed until all the receipts
and Store accounts have been received and
acquitted.

4. It is with regret I have to report that
owing to the unusual rough state of the sea I
have been compelled to abandon the attempt to
make

With two Trac-
ings.

Surveys.

a survey of the roadstead this year. The soundings on record and accepted by Mr. Parker are for the years 1882 and 1886, so that the next one will be in 1890, but it was my intention to repeat the survey every 2 years. Should the weather prove more favorable, I will endeavour to repeat the soundings outside the South Pier arm called for in your letter No 605 dated 7th May 1889.

5. No work whatever was done at the North Pier, but as soon as the Trustees can inform me that it has been decided not to remove any of the new work (already built) to form a N. E. entrance I will add the necessary caissons, which takes time to harden, and thus prevent delaying the work in the event of an order being received to proceed with this arm.

6. Blockmaking at the South Pier was impossible for the greater part of the month owing to the heavy seas washing over the old wall rendering it impossible for a diver to set his feet. Throughout the month there were only 9 days in which the divers could work below and during this time good progress was made when 80 blocks were placed in position advancing the superstructure by 50 feet, so that the total length of the South Pier completed to the 31st August 1888 (from the first block on shore) is 3179 feet of which 492 feet is of the new bonded work.

7. The work of block making was commenced

Concrete Blockmaking on the 23rd August and by the 31st 88 blocks had been turned out, of which 64 are for the superstructure and 21 for the Wave breaker. The total quantity of concrete = 1472 8. cubic yards. 37 3/4

Pallaveram Quarries 9. Very little quarrying was done at the Pallaveram Quarries during August owing to there being no rubble required for tipping consequently only 19 trains ran during the month bringing down 3560 1/2 tons of chips for blockmaking. The Railway lines were maintained in good order and

repairs. 10. The steamers "Riva" and "Roma" brought out 2808 casks of Portland Cement, containing 501 1/2 tons. 11. 150 tons of green Casuarina Firewood was delivered by the Contractor under local supply contract.

12. The Beach Improvements sanctioned under Estimate No 585 for Rs 106,472 are being steadily carried out and during August the foundation and platform for the South goods shed was completed and the platform for the North Shed commenced. The iron work for the roofing, &c to the South Shed was nearing completion.

13. Several trains and trucks were repaired and 4 new 8 ton trucks Nos 8, 9, 10, and 11, were completed and handed over to the Traffic Manager of the Pier.

14. 100 Running part (for the half width) of Iron Pier the decking to the screw pile Pier was repaired up and completely replaced with new timber planking &c. breachers fixing a few new pile caps.

15. 295 Running part of wrought iron piping was laid at the shore end of the Pier which now completes the arrangement for supplying fresh water for the shippery from the reed of the Iron Pier.

10/11/88

I have the honor to be

Sir

Your most Obedient Servant

(Signed) A. L. P. P. P.

Engineer, Harbour Trust Board.

True Copy

C. J. P.

Secretary

Harbour Trust Board.



10/23/88

Madras Harbour Works.

488

Return of work accompanying Progress Report for August 1888.

3743

Railway & Liris. The liris along the Beach and at the Quarries were kept in repair, and 55 Rg. ft. of temporary Broad Gauge line was laid on the South Pier.

Quarries. Northern trains worked in the month of August bringing the following stone to the Works viz -

Rubble. None received since 30th June /88

Chips. Total quantity received up to 31st

	Tons.
August 1888.	109,825 ³ / ₄
Do to 31 st July 1888	106,265 ¹ / ₄
	<u>3,560 ¹/₂</u>

Ballast. None received.

North Pier Surf Bank - Nothing done since 31st Dec. 1886.

— Rubble Bank } Do — 30th April 1887

— Superstructure } Do — 29th Feb. 1888

— Supplementary works — Do — 31st Sept. 1887

— Capping — Do — 31st May 1887.

South Pier Surf Bank } Do — 30th April 1888.

— Rubble bank } Do — 30th April 1888.

— Superstructure } Do — 30th April 1888.

Blocks set up to 31st August 1883 - 1919 ⁸/₉

Do — 31st July 1103 - 1787 ²/₉

In August 80 - 1319 ¹/₉

Qty. ft. of new wall built up to 31 August 1902

31st July 1888 442
In August 50

Total length of wall completed from E 3149

South Pier Supplementary works Nothing done since

30th April 1888.

Capping 30th June 1888.

Cramps 30th April 1888.

Protective works Nothing done

Concrete Blocks.

Description of Blocks	Made up to 31 st July 1888	Made up to 30 th April 1888	Made up to 31 st Aug. 1902	Placed in work		In Hand
				up to 31 st July 1888	up to 31 st Aug. 1902	
Old blocks	806	-	806	806	806	-
Wave Breaker Blocks	2541	21	2592	1924	1924	665
Superstructure						
North Pier bottom blocks	224	-	224	104	108	119
do Middle	643	-	643	403	408	268
do Top	222	-	222	128	130	92
South Pier bottom	280	10	290	221	145	145
do Middle	454	48	802	587	633	169
do Top	285	9	294	219	233	61
Special	41	-	41	41	41	-
Counter balancer	1	-	1	-	-	1

1441 $\frac{4}{9}$ Cub. Yds. Concrete blocks made in the month.

136 Wave Breaker blocks were transferred from the North to South Pier Block and ground and stacked.

1054 Tons cement was the balance in store at the end of the month.

Tools and Plant

No 2 Hour Crusher Two new jaws and 373 wedges and set plates fixed No 3 Grader on the mining platform was thoroughly repaired Three concrete skips were repaired No 1 Concrete Mixer pump was supplied with a new valve.

The running shed was supplied with two new water columns. The wooden platform of a weighing scale was renewed. Two monkey spanners and three pairs of dets were repaired and 32 drifts were made for fitting shop. 140 turned bolts, and rivets were made for the wave breaker crane. Eight mooring Buoys were made and erected for the Deputy Conservator.

No 1 Locomotive Engine Valve spindle gland shield and two new chests for waste water cock grannings fitted. Brass bearing connecting, and coupling rods, closed. Steam valve injector repaired, tyres chipped and Boiler cocks ground.

No 2 Locomotive Engine Brass bearings, connecting and coupling rods closed. A new brake fitted, and four buffers repaired.

No 3 Locomotive Engine Brass bearing closed, cocks ground, and injector repaired. Laid wagons Nos 2, 5, 6 & 10 were fitted with new tail brass hangers.

No 4 fitted with a pair of new wheels.

Wave Breaker Crane The wave breaker crane was completely dismantled by the 15th and

the heavier portions were being transferred to the South Pier.

North Pier Titan The North Pier Titan was kept in good order, at its shore station.

South Pier Titan The South Pier Titan was at the extreme end of the South Pier New Work building the superstructure.

Beach Improvements. The platform of the South goods shed was completed, and that of the North shed nearing completion, and the iron work of both sheds was well in hand.

Iron Pier 100 Rq. ft. for half width of new timber work was completed and the iron girders for a further 50 ft. in length were cut out and removed.

295 Rq. ft. Wrought Iron water piping was laid on the Iron Pier and one length of 9 ft. of Cast iron pipe.

(Signed) A. Lee Poyson
Engineer, Harbour Trust Board.

Madras H. W. Office
16th October 1888.



True Copy!

C. J. Vincent

Secretary
Harbour Trust Board.

In 10/23/88
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N^o 3743W
B. L. R.
Elworthy
PUBLIC WORKS DEPARTMENT

3743
12

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the Nov-27. 1888

Read the following

From

The Chairman
Harbour Trust Board. } (H. No: 2961 of 29th Oct 1888)
Indorsement in the
Marine Department. } (H. dated 27th Nov 1888)

With all but
the statement of
expenditure - This
to go in original to the
Secy of State

Ordered that the
report be forwarded
to the Secretary of
State.

2. The Statement of
expenditure with which
the present report is
accompanied will be
accepted for reference
both here and in
London. It should
therefore be prepared
in

WES
13 Nov.

in future in duplicate,
to admit of one copy
being retained in the
Secretariat.

Chairman, H. J. Brand
Marine Department.

(H. J. Brand 25
37436/27.11.88)

To The Right Honourable
The Secy of State
for India.

My Lord.

In continuation
of your despatch No.
18
3050W dated 28th Sept.
1888, we have the
honour to forward
herewith for your
Lordship's informa-
-tion the Progress
Report of work

WJ

on the Madras
Hankow for the
months of August
1888, together with
a statement of ex-
-penditure to date
as compared with
the sanctioned esti-
-mate, and a plan
showing the advance
made during the
months.

advised
with 1/0
No 3743 W for
statement
WJ
5/12/88

WJ
10.11.88
10/11/88

WJ

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Circ. 12-21-88
L. 12-21-88

avg

Govt. of (1888) Madras.

PUBLIC WORKS.

22/11/88
157/11/88

Dated

Recd.

Encl.

G.O., No. 27 1888, No. 37430

Madras Harbour Works

Orders in proper report
on the - for Aug 1888

To S. P. S.

Br & W. S. S.

Forwarding proper
report on the -
for Aug 1888