

(1) Number of pages.....

(2) Date of repair.....

(3) Initials of the Referencer.....

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2117	(W)	Press
B.P. No.			Mis.
Dated	15-8		1876

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
15th August 1876. No. 2,117.*

Read the following papers :—

No. 329. From N. St. B. BEARDMORE, Esq., Officiating Superintendent, Madras Harbour Works, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Madras, 31st July 1876, No. 55-W.

THE progress during the past month of the works of the Madras Harbour, which I have the honor to report, is chiefly in connection with the block ground and the engine-houses for making concrete, which at present is the most important part of the work.

2. The concrete platforms on which are to be constructed pier blocks have been extended during the month for a length of 230 feet, as shown by a blue tint on the plan now forwarded to you. The length will complete about two-thirds of that half of the block ground : part of it has been further extended, but in an incomplete state, and the railway sidings have also been laid for a further length as shown in blue. The concrete mixing shed is not yet completed, owing to some difficulty having arisen with the contractor. Foundations for the engine-house, boiler-house, and chimney are fixed, and the superstructure of the engine-house is being proceeded with as fast as possible in order that the engine may be fixed on its bed. The boilers setting will soon be in hand and the chimney will at the same time be built up. A good deal of work has lately been done to the boilers which were sent from England partially rivetted on account of convenience for the passage. The carpenters have been at general work on the timber portion of the buildings and in making block moulds, fencing the block ground, repairing trucks, &c.

Ambaloor Quarries.—The quarries at Ambaloor are now being worked in a more advantageous manner. The railway sidings there having been extended, and as so much stone has not been deposited during the past month, some quantity is there collected in store.

Northern Surf Bank.—As mentioned in my progress report of last month, I thought it advisable to reduce the rate with which the surf bank was being projected into the sea for reasons given therein and in subsequent communications, *namely*, because we had no stone ready with which to make concrete blocks, and on account of the great accumulation of sand on the south side of the pier which was continually following us out to sea ; it, in my opinion, being better to proceed more slowly until we had made more preparations, and then make a greater effort to get quickly into the required depth of water in which to place the first blocks of the pier. I may add that from recent surveys conducted by me, I have discovered that which for some little while I had a suspicion of, *viz.*, that the bed of the sea is silting up out in the very front of the pier, so that there is more reason for the above-expressed opinion.

I have accordingly collected a good supply of stone from a village on the south side of the Madras Railway near to Chinnampett, from Pal-yeram, and by purchasing 300 tons of very hard and suitable stone that was brought as ballast in a ship from the Mauritius, and have made other preparations to commence block making, so that we may now, if the Government think proper, proceed more quickly in advancing the surf bank, though I consider it is still a question, as it will be sometime

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15th August 1876. No. 2,117.*

before any blocks are ready, whether it would not be better to wait for a time; but I must leave this to discuss with Mr. Thorowgood when he arrives.

No contracts have been entered into during the month, but the rate for unloading stone has been reduced from $2\frac{1}{2}$ Annas to $1\frac{3}{4}$ Annas per ton, and 1 Anna per ton according to the place deposited.

A vacancy in the establishment has been filled by C. Ramasawmy Naidu, Surveyor and Draughtsman.

Expenditure.—The amount of money spent during the month, compared to the previous month and also compared in red figures to the estimated cost, is shown in the following table:—

Heads of Estimate.	Cost for June 1876.			Cost for July 1876.			Total Cost to end of July 1876.			Estimated Cost by new Estimate.
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	
Detailed survey ...	39	8	0	160	13	8	849	8	3	...
Railways, &c. ...	5,230	8	5	5,813	14	9	43,086	14	9	...
Opening quarries ...	105	0	0	...	...	...	1,875	14	1	...
Preparing block ground ...	6,433	5	7	...	...	...	6,828	4	8	...
Rubble stone deposits to north pier ...	20,156	7	7	22,774	0	8	1,06,865	3	8	...
Concrete blocks ...	...	...	...	117	10	6	850	4	4	...
Rubble under extra estimate ...	180	13	10	...	...	...	180	13	10	...
Rubble stone to south pier. Wages of crew of steam barges, &c. ...	430	15	11	1,330	7	7	1,761	7	6	...
Buildings ...	901	5	4	2,606	0	0	10,877	0	1	...
Locomotive engines ...	20	2	0	41	0	3	755	9	6	...
Rolling stock ...	204	13	6	138	14	6	2,591	11	5	...
Floating plant ...	2,084	9	11	10	4	3	3,344	14	2	...
Engines, cranes, &c. ...	4,139	9	3	3,298	7	6	30,581	10	8	...
Quarry and general tools ...	197	14	9	2,260	4	7	7,112	6	10	...
Buoys and beacons ...	...	...	...	...	...	...	651	5	7	...
Office furniture ...	69	13	0	995	10	0	1,643	7	0	...
Salaries ...	5,080	13	3	...	...	...	34,614	8	10	...
Office contingencies ...	23	13	11	47	13	2	626	8	8	...
Travelling allowances ...	170	0	0	241	14	2	3,610	11	3	...
Contingencies at 5 per cent. Protecting the north beach road ...	181	9	0	360	5	11	9,120	4	11	...
	...	...	...	1,686	14	11	1,686	14	11	...
Total ...	45,744	3	3	41,884	8	5	2,70,115	8	11	...

The Ship *Landsdowne* arrived on the 22nd July with 1,509 casks of portland cement, equal to about 290 tons. Many of the casks have been landed almost broken to pieces, and out of 690 landed up to the end of the month, seven were totally damaged by water. The arrival of the *General Caulfield* and *Athene* with 2,390 casks of cement was reported last month, but their cargoes have been unloaded this month. The *Athene* delivered only four casks broken out of 451, and the *General Caulfield* 52 out of 1,939, and very little cement was lost, although some little expense had to be incurred for cooping some of the casks before they could be removed from the end of the pier.

I may add that all the casks are much of the same strength and character, so that if one ship can land a good cargo, the other ships ought to be able to do so.

*Proceedings of the Madras Government, Public Works Department,
15th August 1876. No. 2,117.*

No. 329-A. From Colonel W. FAREWELL, Officiating Deputy Chief Engineer, Public Works Department, to Major-General G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Fort St. George, 3rd August 1876.

I HAVE the honor to forward the progress report submitted by the Officiating Superintendent of the Madras Harbour Works for the month of July 1876, and to state that I visited and inspected the works as usual during the month.

2. The surf bank has made but little progress during the past month, the cause of which the Officiating Superintendent notes has been explained to Government. Though the weather has been extremely fine, yet, at times, on occasions of heavy surf, some of the rubble stone has been swept north and south of the embankment. The quality and size of the stone delivered has not fallen off.

3. The surf continues to break in front of the advancing embankment, seawards, as far as ever; the accumulation of sand south of it has increased, and now, in its immediate vicinity, north of it, it is also beginning to collect; while quite a new phase was but yesterday reported to me, *vis.*, that the sand is forming in front of it, as the following depths taken at low-water by the Officiating Superintendent will show:—

Distance in front of the stone mound.	Depth at each distance.					
	About	30 feet	...	...	...	7 feet.
	50	"	...	...	...	9 "
	80	"	...	...	...	11 "
	150	"	...	...	...	13 "
	200	"	...	...	...	16 "

the depth the bank was advancing in, some little time ago, having been noted as being from 12 to 14 feet at about high-water.

4. The Officiating Superintendent has collected about 1,200 tons of hard stone for concrete block making from different quarters, and hopes to commence block making in August.

5. The survey and sections of the proposed lines of railway along the beach, and that showing the extension of the railway, &c., &c., in the Ambatoor quarries have, I understand, been submitted to Government; and the Officiating Superintendent reports that he has collected a large quantity of stone at the Ambatoor quarries, ready for loading.

6. The railway extensions in the block ground have made good progress, as also have the block platforms. The engine-house and concrete making factories are still progressing, but the latter not as quickly as was expected.

7. In company with the Officiating Superintendent, I have inspected the possible sites for quarries on the South Indian Line of Railway from Madras to Tindivanam. There are several quarries available within a reasonable distance of Madras; stone, indeed, can be had almost immediately after crossing the Adyar river, at the Mount and Palaveram; but, beyond collecting such surface stone as may be obtained without quarrying, I do not think either from the excessive hardness of some of the material,

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15th August 1876. No. 2,117.*

The changes in the bed of the sea and the general insufficiency of the arrangements confirm the Governor in Council in the opinion before expressed, that it is of the utmost importance that Mr. Parkes should forthwith visit the work, and by his own personal inspection decide what is necessary to meet the various altered phases which have occurred, and to arrange on the spot the measures necessary for the speedy completion of his design.

3. The Governor in Council desires to have report of the hardness and general fitness of the stone stated to have been obtained from Palaveram.

4. The Governor in Council regrets to learn that the preparations for the erection of the steam machinery are not further advanced; but confidently expects that the arrival of Mr. Thorowgood will enable the works to be prosecuted with greater energy and vigour.

5. The Chief Engineer will be authorised to communicate the rate of progress with the pier, and the quantity of material deposited, to the Chamber of Commerce each month on receipt of the report, and may now furnish them particulars for each of the past months.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

To the Superintendent of Madras Harbour Works, with plan and section.

„ Chief Engineer, Public Works Department.

„ Chairman of the Chamber of Commerce, (with extract of paragraph 5 of G.O. only,) and an abstract of the previous reports.

„ Marine Department.

Exd. E. C. Shankar.

Spare Copies

RAILWAY DEPARTMENT.

CONSULTING ENGINEER'S OFFICE,

Madras, 5th June 1876.

No. 715

From

LIEUT.-COLONEL J. H. M. SHAW-STEWART, R.E.,

Consulting Engineer for Railways,

To

Colonel W. Farewell

Offg. Dy. Chief Engineer

Public Works Department.

Sir,

Enclosures.

No. 1737 - 2nd vol.
June 1876.

In reply to your letter No. 291 dated 24th May 1876, I have the honour to forward copy of letter from the Agent of the South Indian Railway, furnishing information regarding the stone quarries near to the Company's line within a short distance from Madras.

2. The reply from the Madras Railway will be forwarded as soon as received.

I have the honour to be

Sir

Your most obedient servant

W. H. M. Shaw-Stewart, R.E.,
Consulting Engineer for Railways.

Consulting Engineer for Railways.

See Chs 55 & 56 for put up papers. 8. 1876 Department
 810

RAILWAY DEPARTMENT.
 CONSULTING ENGINEER'S OFFICE,
 Madras, 22nd June 1876.
 No. 810

From
 LIEUT.-COLONEL J. H. M. SHAW-STEWART, R.E.,
 Consulting Engineer for Railways,

To
 Col. H. Harewell,
 Offg Deputy Chief Engineer
 Public Works Department.

Enclosures.

In continuation of my
 letter L^o 7/5 dated 5th June
 1876, I have the honour
 to forward copy of letter
 L^o 4-4-5, of 20th June 1876
 from the Chief Engineer
 of the Madras Railway
 to the Agent of that Com-
 pany, regarding the stone
 quarries near their line of
 railway within a short dis-
 tance from Madras

I have the honour to be, Sir,
 Your most obed^t Servant
 Wm. Stewart Esq. R.E.
 Cons. Engr for Railways

By C.E. L^o 438 27th June 1876

See 7-8-76 Note 16-8-76
 resp to Oct 2-8-76

To
 Colonel Harewell
 By Chief Engr
 11/7/76.
 Dated 14th June 1876
 Received 27th June 1876
 No. 715
 ENCLOSURES, 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.
 The Consulting Engineer
 for Railways,
 1876.

For put up paper see Chs 5534

8. 8. 1876 No part used
28th 1/2 02

Cur. 7. 8. 76 Mta 16. 8. 76
Drops to 2. 8. 76.

From no of your survey
between the line
of the railway
of the railway

To
Colonial & Marine Co
of the railway
of the railway
Dated 29th June 1876.
Received 22nd June 1876.
No. 810
Enclosures, 1

From
The Consulting Engineer
for Railways,
1876.

RAILWAY DEPARTMENT.

No. 445 Madras Railway Co.
Chief Engineers Office
Madras 20th June 1876
The Agent and Manager

Dear Sir,

Your endorsement on
Consulting Engineer's letter No. 552
of the 25th ultimo.

I have made
careful enquiries and find
that the quarries nearest
to Madras used during
the construction of the
Madras Railway are those
near Sholinghur and at
Tirumang. The cost of
building,

some of the public stone has

building stone at the former
being about 20/8 per ton
and at the latter 12/4 per
ton.

2. There is a quarry at
Chinnampett from which
the Tramway Company
procured some small stone
(granite). It is, I believe,
unsuited for building purposes
and has not been used
by the Railway people

Yours &c

W. R. Robinson

Actg. Chief Engineer

(Enc. 2/2)

Thos. A. Doyle

Sub. to the Genl. Insp. for Pys

P. 4. 11502/76

From

Colonel R. F. Farnwell

Officiating Dy Chief Engineer

To The Secretary to Government
Public Works Department

Sir,

I have the honor to forward
the progress Report submitted by
the Officiating Superintendent of the
Madras Harbour Works for the
month of July 1876, and to
state that I visited and in-
spected the works as usual
during the month.

2. The surf bank has made
but little progress during the past
month, the cause of which the
Officiating Superintendent notes
has been explained to Govern-
ment. Though the weather has
been extremely fine, yet, at times,
on occasions of heavy surf,
some of the rubble stone has

been swept north and south of the embankment. The quality and size of the stone delivered has not been fallen off -

3. The surf continues to break in front of the advancing embankment, seawards, as far as ever; the accumulation of sand south of it has increased, and now, in its immediate vicinity, north of it, it is also beginning to collect; while quite a new phase was but yesterday reported to me, viz; that the sand is forming in front of it, as the following depths taken at low water by the Officiating Superintendent will show.

Distances in front of the stone mound -	Depth at each distance -
about 30'	7'
50'	9'
80'	11'
150'	13'
200'	16'

the

the depth the bank was advancing in, some little time ago, having been noted as being from 12 to 14 feet at about high water.

4. The Officiating Superintendent has collected about 1200 tons of hard stone for concrete block-making from different quarters, and hopes to commence block-making in August -

5. The Survey and Sections of the proposed lines of Railway along the beach, and that showing the extension of the Railway &c &c in the Umbaloor Quarries have, I understand, been submitted to Government; and the Officiating Superintendent reports that he has collected a large quantity of stone at the Umbaloor Quarries, ready for loading -

6. The Railway extensions in the block ground have made

good progress, as also have the
block platforms - The Engine-
house and concrete-making factories
are still progressing, but the latter
not as quickly as was expected.

7 In company with the
Officiating Superintendent I have
inspected the possible sites for
quarries on the South-Indian
line of Railway from Kachas
to Pindavanam - There are several
quarries available within a reasonable
distance of Kachas; stone, indeed,
can be had almost immediately
after crossing the Adyar River,
at the Mount, and Palavanam,
but, beyond collecting such surface
stone as may be obtained without
quarrying, I do not think either
from the excessive hardness

of some of the material, or
its awkward position, stone in
any very large quantities can
be as cheaply quarried from
these localities as from those
situated a little further down
the line, at the 16th and 24th miles,
where stone of an excellent de-
scription, and in any quantity,
can be conveniently and econo-
mically quarried, carried, and
delivered, I should think ex-
actly within the rates contem-
plated by the Estimate for hard
stone. The Railway authorities
having no occasion to quarry and
collect stone of the size and
description required for the
Kachas Harbour Works, are
unable to give any reliable
information regarding the probable
rates

427-4-76 No 1056
 - 12-5-76 - 1197
 - 15-6-76 - 1432
 - 18-7-76 - 1802
 - 29-7-76 - 1938
 - 17-5-76 - 1288

W 1896 Sept
 No. 5524

From
 18 August 1896

Col. W. L. Larnell
 Offg. Dy. Ch. Surg.
 P. W. S.

Dated 3rd. Aug.
 Recd 2nd in 1896
 Carl

Report of the pro-
 piers of the Madras
 Harbour Works for the
 month of July 1896

The Chamber of Commerce.

Madras 4 August 1896

From

The Honble P. Macfadyen,
 Chairman, Chamber of Commerce

To

Major General P. E. Sathur, B. S.,
 Secretary to Government,
 Public Works Department,
 Colacmand

Sir,

As the progress of the Madras Harbour Works
 is a matter of deep interest to every one connected
 with the trade, or otherwise interested in the
 welfare of this Port, I have been desired by
 this Chamber, to do myself the honor of beg-
 ging you to solicit from His Grace the Governor
 in Council permission to give publicity at an
 early date as possible to the Monthly Progress
 Reports, which, the Chamber are informed,
 are prepared for Departmental purposes.

I have the honor to be

Sir,

Yours most obedient Servant

Macfadyen

Chairman

Cur. 7.8.76 Pile 16.8.76
 Recd to 3-8-76

1896

Madras 4th August 1876

P.W.D.

10176

10176

From

Chairman Chamber
of Commerce

Date 4th Aug 76

Regarding to give pub.
- lity to the monthly pro-
- gress reports of the
Madras Harbour -

Passy B

Cir 7.8.76 Vol 16-8.76

Chas. J. Aust.

1055 VV

From

V. H. B. Beardmore Esq.

Offg Superintendent

Madras Harbour Works

To

Major General G. W. Walker R.E.

Secretary to Government

Public Works Department

Fort St George

Madras, 31st July 1876

Sir,

The progress during the past month
of the works of the Madras Harbour, which
I have the honour to report is chiefly in
connection with the Block Ground, and
the Engine Houses for making concrete
which at present is the most important
part of the work.

2. The concrete Platforms on which
are to be constructed Pier Blocks have
been extended during the month for a
length of 250 feet as shown by a blue tint
on the Plan now forwarded to you. The
length will complete about $\frac{2}{3}$ of that half of
the Block Ground: part of it has been further

extended

extended, but in an incomplete state and the Railway sidings have also been laid for a further length as shown in blue. The concrete, masonry shed is not yet completed owing to some difficulty having arisen with the Contractor. Foundations for the Engine House, Boiler House, and Chimney are fixed and the superstructure of the Engine House is being proceeded with as fast as possible in order that the Engine may be fixed on its bed. The Boilers setting will soon be in hand and the Chimney will at the same time be built up. A good deal of work has lately been done to the Boilers which were sent from England partially rivetted on account of convenience for the passage. The Carpenters have been at general work on the timber portion of the buildings and in making block moulds, fencing the Block ground, repairing trucks &c.

The Quarries at Ambatoor are now being worked in a more advantageous manner. The Railway sidings there having been extended and as so much stone has not been deposited during the past

Ambatoor
Quarries

Northern
Surf Bank

Only the
bottom
was

past month, some quantity is there collected in store.

As mentioned in my progress report of last month, I thought it advisable to reduce the rate with which the Surf Bank was being projected into the sea for reasons given therein, and in subsequent communications, namely, because we had no stone ready with which to make concrete blocks, and on account of the great accumulation of sand on the South side of the Pier which was continually following us out to sea: it in my opinion being better to proceed more slowly until we had made more preparations, and then make a greater effort to get quickly into the required depth of water in which to place the first blocks of the Pier. - I may add that from recent surveys conducted by me, I have discovered that which for some little while I had a suspicion of viz: that the bed of the sea is sitting up out in the very front of the Pier, so that there is more reason for the above expressed opinion. -

I have accordingly collected a good supply

of stone from a village on the south side of
the Madras Railway near to Chinnampall,
from Palaveram, and by purchasing 300 tons
of very hard and suitable stone that was brought
as ballast in a ship from the Mauritius :
and have made other preparations to commence
Block making so that we may now, if the
Government think proper, proceed more quickly
in advancing the Surf Bank, though I con-
sider it is still a question, as it will be
some time before any Blocks are ready, whether
it would not be better to wait for a time ;
but I must leave this to discuss with Mr.
Thoroughgood when he arrives.

No Contracts have been entered into
during the month, but the rate for unloading
stone has been reduced from $2\frac{1}{2}$ annas to $1\frac{3}{4}$
annas per ton and 1 anna per ton according
to the place deposited.

A vacancy in the Establishment
has been filled by G. Ramaswamy Naidu
Surveyor and draughtsman.

The amount of money spent during the
month, compared to the previous month,
and

Expenditure

and also compared in red figures to the estimated cost is shown in the following table.

Heads of Expenditure	Cost for	Cost for	Total cost	Estimated
	June 1876	July 1876	to end of July 1876	cost by new Estimate
Detailed Survey	398 ..	160 13 3	544 5 3	
Railways &c.	5230 8 5	5 8 13	43 6 8 6	149
Opening Quarries	105 ..	" ..	107 5 11	1
Preparing Block Ground	6533 5 7	" ..	6528 1 8	
Rubble Stone deposits to North Pier	20156 7 7	22 7 74	8106 8 6 5	38
Concrete Blocks	" ..	117 10 6	850 1 4	
Rubble under extra Estimate	150 13 10	" ..	150 13 10	
Rubble Stone to South Pier	430 15 11	1330 7 7	1761 7 6	
(Wages of Crew of Steam Barges)				
Buildings	9011 5 4	2606 ..	10877 ..	1
Locomotive Engines	20 2 ..	41 .. 3	755 9 6	
Rolling Stock	2941 13 6	138 11 6	2591 11 5	
Floating Plant	2084 9 11	10 4 3	3344 11 2	
Engines cranes &c.	4139 9 3	3298 7 6	30581 10 8	
Quarry and General Tools	197 11 9	22 60 4 7	711 2 6 10	
Buoys and Beacons	" ..	" ..	651 5 7	
Office Furniture	69 13 ..	99 5 10 ..	1613 7 ..	
Salaries	5080 13 3	" ..	34614 8 10	
Office Contingencies	23 13 11	17 13 2	626 8 8	
Travelling Allowances	170 ..	241 14 2	3610 11 3	
Contingencies at 5%	1819 ..	360 5 11	9120 4 11	
Protecting the North Beach Road	" ..	1686 11 11	1686 11 11	
Total	45744 33	41884 8 5	970115 8 11	

The

The Ship *Landsdowne* arrived on the 27th July with 1500 casks of Portland Cement equal to about 290 tons. Many of the casks have been landed almost broken to pieces and out of 1000 landed up to the end of the month, 27 were totally damaged by water. The arrival of the *General Beaulfield* and *Atheni* with 2300 Casks of Cement was reported last month, but their cargoes have been unloaded this month. The *Atheni* delivered only 4 Casks broken out of 1151 and the *General Beaulfield* 52 out of 1939 and very little cement was lost although some little expense had to be incurred for coopersing some of the Casks before they could be removed from the end of the Pier.

I may add that all the casks are much of the same strength and character so that if one ship can land a good cargo, the other ships ought to be able to do so.

I have the honour to be,
Sir,

Your most Obedient Servant
Wm. B. Beadmore

Offg. Superintendent
Madras Harbour Works

No. 55



N. H. B. Beardmore

Officiating Superintendent

Macra's Harbour. N. S. W.

Handwritten signature

Major General G. W. Walker 36

Dear lady to you &

Public Works Dept

24-11-1950

Dated 8/10/88

Nov. 15 " August 1876.

No. 5029

See also 5534 for put up papers.

P. W. 1876 Dept
No. 5633

The Offy Superintendent,
Madras Harbour Works
To
The Secretary to Government,
Public Works Department,
Fort St George.

Dated 31st July 1876
Recd 3rd Aug: "

5533

Returned to Supt. with
9th Dec 1876

Report of Progress
of the works for the
month of July 1876.

N^o 329.

See 7-8-76 Note 16.8.76
10.12.76 3-8-76

19

Harbour Reports

for July
The report
will be sent
from the
of the
of the
representing that
publicity may
be given to
these reports

Submitted
for
General Manager
of the Harbour

13/5
14/5

No 2117

Public Works Department

PROCEEDINGS OF THE MADRAS GOVERNMENT

Under date the 15th Aug 1876 No. 2117.

Read the following:—

- From the Combrg for Railways (H.E. No 715 of 5th June 76.)
 From the Off. Superintendent, Madras Harbours Works (H.E. No 810 of 22nd do)
 " Off. Dy. Chief Engineer, P.W.D. (H.E. No 55 N of 31 July 76)
 " Chairman, Chamber of Commerce (H.E. No 4th do)
 Telegrams from the Off. Supt. Madras Harbours Works (H.E. No 9th do)

The report should have been sent on the day on which it is dated, the last of the month, and this date must be regularly adhered to.

2. The report should invariably state the progress and quantity of material deposited, this has now been supplied

by telegraph and appears
to be unsatisfactory. The
changes in the bed of the
sea and the general in-
sufficiency of the arrange-
ments confirm the
Governor in Council
in the opinion before
expressed that it is of
the utmost importance
that Mr. Parkes should
forthwith visit the works,
and by his own personal
inspection decide what
is necessary to meet the
various altered phases
which have occurred;
and to arrange on the
spot the measures ne-
cessary for the speedy
completion of his design.

3. The Governor in Council
desires to have report of
the hardness and general
fitness of the stone stated

Gov 1156 of 9th May/96

to have been obtained
from Palaneram.

4. The Governor in
Council regrets to learn
that the preparations for
the erection of the Steam
Machinery are not fur-
ther advanced; but con-
fidently expects that
the arrival of Mr. Thoron-
good will enable the
works to be ^{prosecuted} proceeded
with greater energy and
vigour.

5. The Chief Engineer will
be authorized to com-
municate the rate of
progress with the pier
and the quantity of
material deposited to
the Chamber of Com-
merce each month on

Handwritten signature

Supt. to St. W. R. with plan
 Chief Engr. P. W. S. ^{and Section} ~~Chief Engr.~~
 C. C. of Commerce with ^{and Section} ~~Chief Engr.~~
 Marine Dept. ^{and Section} ~~Chief Engr.~~
 Dec 6/9/15 of Progress

✓ $\frac{V}{13}$
 1860 (from Deschamps)
 1860 (from Deschamps)
 Report sent on the 19/10/60 from [unclear]

55° 33' 59" 574
 55° 33' 42" 555 85
 44° 34' 44" 34

The Capt. has been working
 18-87
 The Gulf

15th August 1877

No. 329-330

Progress Report of the
 Madras Harbour Works
 for the month of July
 1876 - Passing orders
 on the —

1876-77
 1876-77