

(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. 1457 | Press  |
| 1986 200      | Mis.   |
| Dated 12. 6.  | 1872 . |

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,  
12th June 1872.*

Read the following papers:—

No. 198. From the Master Attendant, Administrative Department, to the Secretary to Government, Public Works Department, dated Madras, 30th May 1872, No. 3,065.

I HAVE the honour to forward Report of Committee appointed by Government\* to decide on the best means of restoring the Madras Pier. A scheme for ensuring its future safety will follow.

\* Under orders of 13th May 1872, No. 1,219.

*Report of the Pier Committee.*

THE Committee appointed by Government in their Order of the 13th May 1872, No. 1,219, for the purpose of reporting on the best means of restoring the Madras Pier and ensuring its future safety, beg to report as follows:—

1. We have made as thorough an inspection as was in our power of the damage which the Pier sustained during the late storm. On the last occasion of our inspection we were joined by Mr. Grainger, the General Superintendent of Public Works Stores and Workshops, and had the advantage of his advice.

2. We have come to the conclusion that it is at present impossible for us to make any definite and satisfactory recommendation on the subject of restoring the Pier; and in order that we may be placed in a position to submit satisfactory proposals, we solicit permission to make experiments in screwing piles along the original line of the Pier, in the ground supposed to be occupied by the hull of the *Saint Bernard*. We believe that Mr. Grainger is prepared to supply us with tools, which we hope will enable us to get the piles down through the hull without much difficulty.

3. With the permission of Government we propose that the experiments should be conducted, under our general directions, by Mr. Grainger, under whom the work of restoring the Pier was successfully carried out in 1869, the services of the Pier establishment under Mr. Sadler being made available for his assistance.

4. We find great difficulty in naming any sum as being likely to represent the cost of the experiments which we propose to carry out; but we request that a sum of Rupees 10,000 may be placed at our disposal for the purpose, although we trust that we shall be in a position to submit definite and satisfactory proposals long before that sum is spent.

MADRAS,  
30th May 1872.

(Signed) H. D. E. DALRYMPLE,  
Master Attendant, Administrative Department.

(Signed) B. ANDERSON,  
Chief Engineer, Madras Railway Company.

(Signed) J. H. M. SHAW-STEWART, Lieut.-Colonel, R.E.,  
Consulting Engineer for Railways.

No. 199. From the Pier Committee, to the Secretary to Government, Public Works Department, dated Madras, 10th June 1872.

WITH reference to our report regarding repairs for the Pier sent in to Government on the 30th ultimo, we beg leave to forward a rough sketch of the plan we propose for protecting the Pier from further damage.

2. At each side of the Pier, to the north and to the south, we propose to place one or two groups of piles. Each group will consist of one central pile, screwed vertically, with six or more piles surrounding the central one, and inclined to it at an angle of about 70°. These piles will be braced together in the strongest possible manner, and the resisting power of each group will be still further increased by their being secured to anchors firmly fastened in the ground, the northern groups being anchored towards the north, and the southern groups towards the

*Bringing*

*Proceedings of the Madras Government, Public Works Department,  
12th June 1872.*

south. The approximate position of each group, and the mode in which it will be anchored are shown in the sketch. Each group of piles will rise about 15 feet above the mean level of the sea. We propose to connect the groups upon each side of the Pier with each other, and with the outer end of the T head, by means of a heavy chain cable, which in rough or threatening weather will be suspended from the highest points of the groups of piles, and will hang therefrom in a curve, the lowest point of the curve being some 10 feet above mean sea level. In ordinary weather, the cables will be lowered so as to admit the free passage of boats.

3. By these means a ship adrift will be guided into the surf clear of the Pier, and safe from causing damage to that structure.

4. We also propose to strengthen the T head with horizontal bracing and iron knees, which will render that part of the Pier safe from damage.

(Signed) H. D. E. DALRYMPLE,  
*Master Attendant, Administrative Department.*

( „ ) B. ANDERSON,  
*Chief Engineer, Madras Railway.*

( „ ) J. H. M. SHAW-STEWART, Lieut.-Colonel, R.E.,  
*Consulting Engineer for Railways.*

No. 200. ORDER THEREON, 12th June 1872, No. 1,457.

CIVIL WORKS, No. 18.

BOTH in the letter from the  
(Master Attendant recorded with G. O.,  
No. 1,219, of 13th May, and in the report

of the Pier Committee, dated 30th May 1872, it seems to be assumed as a matter of course that the Pier is to be restored. Whereas it was not the intention of Government, under present financial circumstances, to have sanctioned any expenditure on the work without previous assurance as to its probable cost, the means of averting future damage, and its management so as to repay in some measure its cost.

2. The papers now submitted give some reasonable hope that, if repaired, the Pier may be capable of protection from future damage, and in the hopes of thereby obtaining a reliable estimate of the cost of restoring the structure as originally planned the Government grant an advance of Rupees 5,000 from Port Funds for experimenting as intended. Reference will also be made to the Marine Department for inquiry what measures may be calculated to induce a more general use of the Pier by the native public and shippers in particular, in order that it may be worked hereafter more remuneratively.

(True Extract.)

(Signed) R. F. OAKES, Captain, R. E.,  
*Acting Joint Secretary to Government.*

To the President of the Pier Committee.  
„ Controller of Public Works Accounts.  
„ Superintending Engineer, 4th Division.  
„ Marine Department.

Exd. S. T. Augustin.

*Received  
2 September 1873  
Chepauk  
12/7/73  
May I request you  
to be so good as to send me  
for a short time, the rough  
sketch of the plan proposed  
by the Madras Pier Committee  
for protecting the Pier from  
further damage, forwarded  
with their letter of the 10 June 1872  
to the Secretary to Govt. printed  
with P.W. G.O. No. 1457 of 12th  
June 1872. I will have a  
copy taken for it in  
my office, and return you*

*bringing*

the original.

Yours sincerely  
G. H. M. D.

N. 66. Supp. Engr. Office, 7<sup>th</sup> Division  
Coimbatore 28<sup>th</sup> May 1872.

From

The Superintending Engineer

7<sup>th</sup> Division.

To

The Master Attendant

Administrative Department

Sir

Madras.

With the experience of the late gales before us, I have the honour to bring to your notice the desirability of some measure being adopted for the protection of the Screw pile Pier at Calicut, which is even more frequently liable to be damaged by unmanageable native craft coming in contact with it than that at Madras. I would propose that a cable fender supported by strongly moored buoys or screw piles be constructed about 100 feet from and North and South of the Pier. Should such a structure meet with your approval, I would suggest your bringing

bringing the matter to the notice of  
Government with the view of their  
calling for the necessary Estimate &c.,  
and on your informing me of the  
weight and cost of the cable, anchors,  
and Buoy, or if you prefer screw  
piles, merely the weight of the cable  
you deem sufficient, the estimate  
will be prepared and submitted in  
due course. The length of the pier  
is 525 feet, but the length of the  
fenders need not be more than 350  
or 400 feet.

I have &c.  
Signed W. Farewell Lieut. Col. R.C.  
Offg. Supg. Engineer J.D.

To  
The Secretary to Government  
Public Works Department  
Port Saint George.

Sir

With reference to our Re-  
port regarding repairs for the Pier  
sent in to Government on the 30<sup>th</sup>  
ultimo, we beg leave to forward  
a rough sketch of the plan we  
propose for protecting the Pier from  
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and with the outer end of the T head,  
by means of a heavy chain cable,  
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highest points of the groups of piles,  
and will hang therefrom in a  
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sea level. In ordinary weather,  
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to admit the free passage of boats.

3. By these means a  
ship adrift will be guided into  
the surf clear of the Pier, and  
safe from causing damage to  
that structure.

4. We also propose to  
strengthen the T head with  
horizontal bracing and iron  
knees, which will render that  
part of the Pier safe from damage.

We have the honour to be  
Sir

Madras

10<sup>th</sup> June 1872

Your most obed<sup>t</sup>. Servants

H. D. S. Dalrymple  
Master Attendant  
Administrative Department

W. Stewart Esq. C. S. D.  
Consulting Engineer for  
Railways.

Chief Engineer -  
Nicholas St. Coy

Administrative Department.

Madras.

Marine Office.

30<sup>th</sup> May 1872.

N. 3065.

From

The Master Attendant  
Administrative Department.  
Madras.

To

The Secretary to Government  
Public Works Department.  
Fort Saint George.

Sir

\* Under orders  
of 13<sup>th</sup> May  
1872 N. 1259.

I have the honour to forward  
Report of Committee appointed by  
Government\* to decide on the best means  
of restoring the Madras Pier. A scheme  
for ensuring its future safety will follow.

I have the honour to be  
Sir

Your most obedient Servant.

H. D. Dalrymple  
Master Attendant  
Administrative Dept.

Wm. Dalrymple  
Secy. to Govt.  
Madras.

1872.

From  
The Secy Committee

Dated 10<sup>th</sup> June 1872  
Per H. D. Dalrymple

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with the  
a rough sketch of  
the plan they propose  
for protecting  
the pier from  
further damage.

1872

1872-12 June 1872

Pro 13 May 1872 No 222-223

From 1872 Department  
No. 1219 for June  
Ch. 2094.  
The Master Attendant  
Administrative Department.  
Madras.

To The Secretary to Government  
Public Works Department.  
Fort Saint George.

Dated 30<sup>th</sup> May 1872.  
Recd 31  
N. 3065.

Enc: 1.

Forwards report of  
Committee appointed by  
Government to decide on the  
best means of restoring the  
Madras Pier. A scheme  
for insuring its future  
safety will follow.

N. 1457. 12<sup>th</sup> June 1872

As 198

65 June 1872

The Committee appointed  
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of reporting on the best means of  
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We have come to the conclusion  
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submit satisfactory proposals, we solicit permission to make experiments in screwing piles along the original line of the Pier, in the ground supposed to be occupied by the hull of the "Saint Bernard". We believe that Mr. Grainger is prepared to supply us with tools, which we hope will enable us to get the piles down through the hull without much difficulty.

With the permission of Government, we propose that the experiments should be conducted, under our general directions, by Mr. Grainger, under whom the work of restoring the Pier was successfully carried out in 1869: the services of the Pier Establishment under Mr. Sadler being made available for his assistance.

We find great difficulty in naming any sum as being likely to represent the cost of the experiments which we propose to carry out; but

we

we request that a sum of Rupees (10,000) Ten thousand may be placed at our disposal for the purpose, although we trust that we shall be in a position to submit definite and satisfactory proposals long before that sum is spent.

Madras  
30<sup>th</sup> May 1872.

W. D. S. Dalrymple  
Master Attendant  
Administrative Department.

Herbert Archibald  
Chief Engineer  
Madras Ry Coy.

W. Muntheven J. Esq. M.E.  
Consulting Engineer for Railways

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...  
...  
...  
...

P. M. 269442

...

No 1657. ...  
... under date the 12<sup>th</sup> June 72

...  
...  
...

Both in the letter  
from the Master Attendant  
recorded with G. O. J.  
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the Pier Committee  
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I have filled the blank  
with Rs. 5000: as, if I  
remember rightly, that  
was the sum agreed  
upon at the Council.  
The decision

The further I learn  
 as to the production of  
 from which the sum  
 was the paid was  
 I thought deferred for  
 further information.  
 Rev. Sir will  
 with probably  
 be able to fill  
 up the blank.

ref the black.  
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the broken traces  
If now are with  
all the ~~un~~ & pale  
note on the Principal  
want of

a reliable estimate  
of the cost of restoring  
the structure as originally  
planned the Govt.  
grant an advance of  
Rs. 5000, from  
Port Fund

for experimenting as intended. Reference will also be made to the Marine Dept<sup>o</sup> for inquiry what measures may be calculated to induce a more general use of the Pier by the Native public and shippers in particular, in order that it may be worked hereafter.

$$\frac{45}{4}$$

From the Master Attendant  
Administrative Dept.  
Madrid (Here enter No 3065 of 30 May  
1872)

S.D.S.

Meanwhile it would be well to have an account showing how the Pier has answered as a Congressional Store.

of the proposed scheme for ensuring the future safety of the Pier, should it be determined to restore it - G.M.W.

Letter - Dear Sir  
5% on the Capital  
outlay. for original  
construction & the  
East Westwater 1/2

Chas 2897 & 2697  
Govt. of 1872 Madras.

PUBLIC WORKS.

To the President of the  
Committee

dated

recd.

Encl. 3

G. O. 12<sup>th</sup> Dec 1872. No. 1457.

Nos. 198 & 200

Madras Pres. Paving  
Orders in letters from  
the President, Pres  
Committee, relative  
to the restoration of  
the Madras Pres.

N<sup>o</sup> 198 & 200

56/11/72