

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	2347	Press
8970, 9072		Mis.
Dated	7-10	18 72

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
7th October 1872.*

Read the following papers —

No. 89. From the Officiating Superintending Engineer, 7th Division, to the Secretary to Government and Chief Engineer, Public Works Department, dated Camp at Erode, 14th August 1872, No. 110.

I HAVE the honour to enclose a survey that has been submitted to me by the Mangalore Range Officer, showing the result of the action of the sea and monsoon floods in the Bodakadi Island up to the 24th July of the present year; as the island appears to be fast disappearing, and its removal will considerably change the whole project, it appears to me premature to estimate for closing the Goorpoor gap as directed in G. O., No. 1,449, dated 11th June 1872. I respectfully request to be favoured with your views on the matter.

2. I take this opportunity of requesting the permission of Government to make use of the materials of the old fort known as Sultan's Battery when required for such works as may be necessary at Mangalore; the stones of which it is built is good, and for purposes of defence the battery is useless.

No 89A. MEMORANDUM BY THE CHIEF ENGINEER

UNDER the circumstances represented in the Superintending Engineer's letter and accompanying tracing, the Chief Engineer is of opinion that nothing should be done towards fixing the position of the Mangalore Harbour mouth till after the Bodakadi Island shall have finally disappeared under the action of the contending sea and river forces. These will inevitably cause the two existing outlets to coincide in one, opposite the Sultan's Battery, in the course of next monsoon.

2. The first step to be taken will then be to make use of the natural tendency of the Naitravutty (the southern and much larger river) to break out near Oolaul, between two and three miles further south, and to aid that force to burst a passage through, if insufficient to do so of itself. The harbour mouth will then be restored to its natural position with the whole force of the Naitravutty River acting directly on the bar, and keeping it down to a minimum.

3. The next step to be taken is to prevent its travelling northward again; its tendency to which action is caused by the resultant of two forces, that of the Naitravutty River from within, and of the sea current from without, not counteracted as they should be by the Goorpoor River current, which flows out by the northern outlet. Close that outlet, and the force of the Goorpoor River is brought to bear on the other two forces, the resultant of the three being a fixed harbour mouth. And the agency which fixes it being a natural agency, the conditions of its existence will be the most favourable that can be obtained. And no artificial works will be necessary to fix its northern side, for all tendency to travel northward will have been counteracted by the Goorpoor River current.

4. The demolition of the Sultan's Battery is to be deprecated if stone is otherwise procurable in sufficient quantity and at moderate rates elsewhere. It is capable of mounting a good gun, with command of the shipping and of being utilized for storing powder, etc.

(Signed) G. W. WALKER, Colonel, R.E.,
Chief Engineer, D.P.W.

20th September 1872.

Proceedings of the Madras Government, Public Works Department,
7th October 1872.

No. 90.

ORDER THEREON, 7th October 1872, No. 2,347.

CIVIL WORKS, No. 4.

His Excellency the Governor in Council directs that immediate action be stayed in the matter of the Mangalore Harbour until after next monsoon, by which time it appears certain that the two existing outlets will have coincided and the treatment of the subject become simplified.

2. The Superintending Engineer will report what portion of the funds placed at his disposal are available for transfer to other marine works in progress. And will enter in his Budget for 1873-74 such sum as may be necessary for closing the Goorpoor River mouth after next monsoon.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Officiating Superintending Engineer, 7th Division, with a copy of Memorandum.
,, Marine Department.

Exd. S. T. Austin.

No 110
Superintending Engineer Office
Camp Errore 12th August 1872.
From The offg Superintending Engineer
7th Division
To The Secretary to Government
and Chief Engineer to P.W.
Madras

Enclosure
1 Survey

Sir, I have the honor to enclose a Survey that has been submitted to me by the Mangalore Range Officer showing the result of the action of the sea and monsoon floods in the Podakadi Island up to the 24th July of the present year; as the Island appears to be fast disappearing and its removal will considerably change the ^{whole} project it appears to me premature to estimate for closing the Goorpoor Gap as directed in G.O. No. 1449 dated 11th June 1872. I respectfully request to be favoured, with your views on the matter. I take this opportunity of requesting the permission of Government to make use

Under the circumstances represented in the Superintending Engineer's letter and accompanying tracing, the Chief Engineer is of opinion that nothing should be done towards fixing the position of the Mangalore Harbour mouth till after the Badatodi Island shall have finally disappeared under the action of the contending sea and river forces. These will inevitably cause the two existing outlets to coincide in one, opposite the Sultan's Battery in the course of next monsoon.

The first ^{step} to be taken, will then be, to make use of the natural tendency of the Haitravatty (the Southern and much larger River) to break out near Calaul, between 2 and 3 miles further south, and to aid that force to burst a passage through, if insufficient to do so of itself. The Harbour mouth will then be restored to its natural position with the whole force of the Haitravatty River acting directly on the Bar, and keeping it down to a minimum.

The next step to be taken is to prevent its travelling northward again; its tendency to which action is caused by the resultant of two forces, that of
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the Haitravatty River from within, and of the sea current from without, not counteracted as they should be, by the Goorpoor River current, which flows out by the northern outlet. Close that outlet, and the force of the Goorpoor River is brought to bear on the other two forces, the resultant of the three being a fixed Harbour mouth. And the agency which fixes it being a natural agency the conditions of its existence will be the most favorable that can be obtained. And no artificial works will be necessary to fix its northern side, for all tendency to travel

northward will have been counteracted by the Goorpoor River current.

The demolition of the Sultan's Battery is to be deprecated if stone is otherwise procurable in sufficient quantity and at moderate rates elsewhere. It is capable of mounting a good gun with command of the shipping and of being utilized for storing Powder &c.

W. A. R. E.
Chief Engineer
D. P. W.

20th September
1872

Public Works Department

N^o 2347

Proceedings of the Madras Government

Under date the 7th October 1872

Read the following

From The Sup^y Engineer 7th 8th / H. E. N^o 110 of 11th August 1872

His Excellency the Governor in Council directs that immediate action be stayed in the matter of the Mangalore Harbour until after next monsoon by which time it appears certain that the two existing outlets will have coincided and the

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such sum as may
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closing the Coorpoor
River mouth after
next monsoon.

G.M.W.

To Secy. of Marine Dept. 7-02
a copy of the same
" Marine Dept. 7-02

Dr. S. Secy. 27/10/72 to Secy. 7-02
S-C — 16/10/72 only to —
P-C — to the Marine Dept. 21/10/72

Encl. 21 Sept.

7-3-08 ✓

Op 4876
Govt. of (1872) Madras.
PUBLIC WORKS.

To The Offg. Superintending Engrs
of the Division

Dated

Recd

Encl /

G.O. 7 October No 2347.

Nos. 89 & 90

Mangalore Harbour Secy
instructions for suspending
immediate action in the
matter of the Mangalore
Harbour and requiring a
report as to what portion of
the funds at placed at his
disposal are available for
transfer to other Marine
works and directing the
entry in the Budget for 1873/74
of such sum as may be

Necessary for closing
Coorpoor River mouth
after next monsoon.

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