

(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. 2573	Press Mis.
358-50	
Dated 25-10-1870.	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
25th October 1870.*

No. 358. Read the following letter from the Acting Superintending Engineer, 7th Division, to the Secretary to Government, Public Works Department, dated Camp at Cochin, 6th October 1870, No 151 —

With reference to paragraph 2 of G O, No 2,099, of 1st September 1870, I have the honour to submit an estimate, amounting to Rupees 31,500, prepared by Supervisor Coopoosawmy Rajoo, for closing the Cruz Milagre Gap, together with the plan of modasil and horses proposed to be used in the work, the section of which shows the slope of embankment as estimated for The Range Officer reports that the rates are moderate and apparently sufficient, and considering the nature of the work, I think the 10 per cent entered for contingencies reasonable.

2 I have personally inspected the gap which, though a formidable one, I think with care and energy may be closed by adopting the plan submitted In anticipation of the Government according their sanction to the estimate, I have, to save valuable time, authorized the collection of materials from the Port Funds placed at my disposal in G. O, No. 172, dated 30th September 1870

3. I take this opportunity of reporting to Government, that on my visit to Cochin I ascertained, for the first time, that another breach into the back-water occurred in June last. This breach, which I have inspected, is situated about 1½ miles north of the Cruz Milagre Gap, close to the village of Mylapoor, in the territory of His Highness the Rajah of Cochin At present it is about 200 yards wide, with various depths, the deepest part being between 4 feet and 4 feet 6 inches As it is of importance that this gap should be closed at once, I have addressed the Resident of Cochin on the subject, begging him to urge His Highness' Government to take early steps towards closing this gap, as unless immediately attended to, it will in all probability become as formidable a breach as that of the Cruz Milagre I enclose a copy of my letter to the Resident for the information of Government, as perhaps the Government may deem it necessary also to address the Resident on the subject.

4 Further, I beg to be informed if the Government intend that the estimate, prepared* by Mr. O'Shaughnessy for constructing, lengthening, and reconstructing the groynes as therein noted, is to be carried out The work that appears to me to be of the greatest immediate importance is the lengthening of the Vypeen point groyne, and the strengthening and lengthening of the groyne to the east of it, the groynes are numbered 9 and 9A in Mr. O'Shaughnessy's estimate To these groynes I would add the construction of two other groynes, of the length estimated, one to protect the Cruz Milagre Gap when filled, and one some distance to the north of it, while the revetment of the north or Vypeen bank of the river, as entered in Mr O'Shaughnessy's estimate, is very necessary, as the sea breaks with great violence on this beach and is washing much of it away During the last monsoon I am informed the sea washed away the land here to a length of 630 feet by 43 feet in width, destroying seven houses and fifty cocoanut trees. I would, therefore, urge that at least this portion of Mr. O'Shaughnessy's estimate be sanctioned for immediate execution, and I recommend that the revetment of the light-house

* Vide G O, No 4,004, of 21st Dec. 1869

*Proceedings of the Madras Government, Public Works Department,
25th October 1870.*

bation, as suggested by Colonel Walker, be also carried out. I have carefully inspected the whole of the beach from Vypeen point to the Cruz Milagre Gap, and am glad to be able to report that a considerable bank of sand, about 70 yards in length, has formed to the north of the Groyne No 9B constructed by Mr. O'Shaughnessy.

No 359

ORDER THEREON, 25th October 1870, No. 2,543.

CIVIL WORKS, No. 36

In compliance with the instructions in paragraph 2 of G. O., No. 2,099, dated 1st September 1870, the Acting

Superintending Engineer of the 7th Division submits with this letter an estimate of Rupees 31,500 for closing the Cruz Milagre Gap at Cochin in the manner which the Secretary in this Department has recommended to be tried, and which the Acting Superintending Engineer is of opinion is likely to be successful. Much, the Government believe, will depend upon the energy and skill of the person entrusted with the charge of the operation, and relying on Supervisor Cooposawmy Rajoo, who has been specially selected for the duty, sparing no exertion to accomplish the object in view, His Excellency the Governor in Council resolves to sanction the estimate, and to authorize the preparation of the necessary materials to be proceeded with pending the result of a reference which has been made to the Cochin Circar to ascertain what share of the cost of the work will be contributed by that State.

2. Before taking into consideration Colonel Farewell's proposals for strengthening the groynes and other defensive works estimated for by Mr. O'Shaughnessy, the Government desire to be furnished with a detailed estimate of such work as Colonel Farewell would recommend for immediate execution. With such estimate before them the Government will be in a position to consider the question of providing funds, and will be able, if these are available, to make a specific allotment

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Acting Superintending Engineer, 7th Division.
" Controller of Public Works Accounts.
" Marine Department.

Ed. S. T. Augustin.

No 136. Supy Engineers Office,
7th Division,
Camp Cochin 3rd October 1870
From, The Supy Engineer, 7th Div
To, The Resident of Travancore & Cochin,
Trevandrum.

Sir,
On my way down to Cochin I heard quite casually that the sea had during the month of June in the present year, broken through the Coast into the back water at another point on the Vypeen Island about one & a half mile to the north of the Cruz Milagre Gap, close to the Village of Mylapoor in the Territory belonging to His Highness the Rajah of Cochin. This morning after inspecting the Cruz Milagre Gap I went also and examined the new Breach, which I found to be about 600 feet in length with a variety of depths, the deepest being between 4 & 4½ feet. The operation of closing

the Cruz Milage Gap will be put
in hand immediately, and as the flow
of water through this Gap is arrested
in all probability it will increase
that at the Mylapoor Gap which
will thereby be much deepened and
widened & eventually become just
as formidable a Breach to close
as that of the Cruz Milage, while
if left alone it will neutralize all
the good anticipated to result from
the closing of the Cruz Milage. I
therefore request you will be so good
as to call the attention of His Highness's
Government to the necessity of taking
immediate measures towards closing
this Mylapoor Breach, and point
out the danger of delaying so important
a work even for a day. State this
opportunity of noticing that during
the last Monsoon the sea has encroached
considerably near the village of Mylapoor,

to prevent further encroachment
it would be advisable to continue
the system of Groynes advocated in
the various reports on the protective
works for Cochin and approved
of by the Government of Madras,
as far as Mylapoor or for a $\frac{1}{4}$
of mile to the north of it after which
point the Coast is protected from
erosion by the Parakkal Bank, as
such Groynes would probably do
all that is required of them in one
Monsoon small stones retained
in their position by Coconut
piles & frames would I think be a
cheap & easy mode of constructing
them - I have &c

Signed / W. Farwell Offd
As Supy / J. J. J.

(True copy)

W. Farwell Offd
As Supy / J. J. J.

No 151

Superintending Engineer's Office,
7th Division,
Camp Cochin, 6th Oct 1870

From, ~~Direct~~ Colonel W. Farnwell. S.C.
As Supg. Engineer, 7th DN
To, Colonel C. A. R. R.C.
Secretary to Govt. D. P.W.
Madras

Sir,

Enclosures 3
1 Estt No 13, No 31500. No 2099 of 1st September 1870 I have the
1 Plan.
1 Copy of letter No. 136 of 3rd October 1870
to the Resident of
Mannar.

With reference to para 2 of G.O.
honor to submit an estimate amounting
to Rs 31,500, prepared by Supervisors for
sawing Rajas, for closing the Cruz
Milage Gap, together with the Plan
of Modasit & Korus proposed to be
used in the work, the section of which
shows the slope of embankment as
estimated for. The Range Officer
reports that the rates are moderate
and apparently sufficient, and consid-
ering the nature of the work I think
the 10 percent entered for Contingencies
reasonable.

See letter from the
Supg Engr 7th Division
to the Secretary to Govt.
No 151. Dated 6 Oct 1870

C. W. No 22/70-

Copy of letter from the
Supg Engr 7th Division
to the Secretary to Govt.
about the
work in the territory
of the Government
of the Government

Handwritten notes and signatures at the bottom left of the page.

2 I have personally inspected the Gap which, though a formidable one, I think with care & hurry may be closed by adopting the Plan submitted. In anticipation of the Government according their sanction to the Estimate I have, to save valuable time, authorized the Collection of Materials from the Post Funds placed at my disposal in G.O. No 172 dated 30th September 1870 -

3 I take this opportunity of reporting to Government that on my visit to Cochin I ascertained, for the first time, that another Breach into the Back Water occurred in June last; this Breach, which I have inspected, is situated about $1\frac{1}{2}$ miles North of the Cruz Milaga Gap close to the village of Mylapoor in the Territory of His Highness the Rajah of Cochin, at present it is about 200 yards wide with

with various depths, the deepest part being between 4' & 4' 6" - As it is of importance that this Gap should be closed at once I have addressed the Resident of Cochin on the subject, begging him to urge His Highness's Government to take early steps towards closing this Gap, as unless immediately attended to it will in all probability become as formidable a Breach as that of the Cruz Milaga - I enclose a copy of my letter to the Resident for the information of Government, as perhaps the Government may deem it necessary also to address the Resident on the subject -

4 Further, I beg to be informed if the Government intend that the Estimate prepared by Mr O'Shaughnessy for Constructing, lengthening, & reconstructing the Groynes as therein noted is to be carried

Vide G.O. No. 4004
of 21st Dec 1869

Carried out. The work that appears
to me to be of greatest immediate im-
portance is the lengthening of the
Dyke point Groyne, and the strength-
ening & lengthening of the Groyne
to the East of it. The Groynes are
numbered 9 & 9A in Mr O'Shaughnessy's
Estimate; to these Groynes I would
add the Construction of two other
Groynes, of the length estimated, one
to protect the Cruz Milage Gap when
filled, and one some distance to the
North of it, while the Revetment of
the North or Dyke Bank of the
River as entered in Mr O'Shaughnessy's
Estimate is very necessary, as the
Sea breaks with great violence
on this beach and is washing much
of it away. During the last season
I am informed the Sea washed away
the land here to a length of 630 feet

23055

by 43 feet in width destroying 1
Hawer of 50 Coconut Trees. I would
therefore urge that at least the portion
of Mr O'Shaughnessy's Estimate be sanctioned
and for immediate execution, and
I recommend that the Revetment of
the Light House Bastion, as suggested
by Colonel Walker, be also carried
out. I have carefully inspected
the whole of the Beach from Dyke
point to the Cruz Milage Gap, and
am glad to be able to report that
a Considerable Bank of Sand about
70 yards in length has formed to the
North of the Groyne No 9B Constructed
by Mr O'Shaughnessy.

I have the honor to be,
Sir,
Your most obedient
Wm. Smith Atollse.
Asst. Surg. R.N.

Civil Public Works Department
 No. 25483.
 Proceedings of the Madras Government
 Under date the 25. Oct. 1870.
 200

From the Supt. of the Engineer, 7th Regt. U.S. E. No. 101, 4/6th October 1870.

In compliance with the instructions in para 2 of G. O. No. 2099 dated 1st September 1870 the Acting Sup^r Engineer of the Y^e D^y submits with this letter an estimate of Rs 31,500 for closing the Cruz Milagro Gap at Cochín in the manner which the Secretary in this Department has recommended to be tried and which the Acting Sup^r Engineer is of opinion is likely to be successful.

Truch,

Public Works 1870 Rebuilt
 Springfield Ct
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McClellan, J. M.

to the Secretary of War

H. M. W.

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Receaved

Richardson

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The Texas Trailers Club

with reference to them

2 of 20 pages of 11

Self-Portrait

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much the Government
believe, will depend upon
the energy and skill of
the person entrusted with
the charge of the operation,
and relying on ^{Ray} Supervisor
Coopersawmy who has
been specially selected
for the duty, sparing no
effort to accomplish the
object in view. His Ex-
cellency the Governor
and Council resolves
to sanction the estimate
and to authorize the
preparation of the necessary
materials to be proceeded
with pending the result
of a reference which has been
made to the Cochin Circar
to ascertain what share
of the cost of the work
will

15
will be contributed by
that state.

Before taking into
consideration Colonel
Farewell's proposals for
strengthening the groynes
and other defensive works
estimated for by Mr.
O'Shaughnessy, the Govt
desire to be furnished
with a detailed estimate
of such works as Col.
Farewell would recom-
mend for immediate
execution. With such
estimate before them
the Govt will be in a
position to consider
the question of providing
funds and will be
able

able, if there are available,
to make a specific
allotment.

WLB

Further Pro M. 120-2721-4
114-12-11
" 1167-12-6-7

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24
L.

7 The Supr Engrs. & Dr. Lita
5- Controller of P. & Dr. acc'ts.
" Marine Dept. & Dr. Lita
Dec 26/1970

C/O 4022

Govt. of 1870 Madras.

PUBLIC WORKS.

1. The *Superintending Engineer*
- *J. The Duraiswami*

Dated

Recd.

Recd /

G O 25¹ of 1870, No 2543

Nos. 3584 & 359

Milayapap at Pochim. The
estimate of Rs. 31,500 for closing
the Milayapap at Pochim,
returned with remarks.