

- (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.	260	Press
B.P. No.		Mis.
Dated	2-2-	28 74
		195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
2nd February 1874.*

No. 15. Read the following letter from Lieutenant-Colonel W. FAREWELL, Inspecting Engineer for Ports and Communications, to Colonel G. W. WALKER, R.E., Chief Engineer and Secretary to Government, Public Works Department, dated Chepauk, 17th January 1874, No. 482-42 :—

1 Estimate Rupees 383 and
1 Specification (to be returned).

an allotment of funds, an estimate, amounting to Rupees 383, for repairing groyne A and brushwood groynes of

Cochin Harbour. I brought to the notice of Government in paragraph 12 of my report printed with G. O., No. 2,138, dated 27th August 1873, the condition of the groynes at Cochin generally, and recommended that an annual maintenance grant of one rupee per running foot of groynes should be sanctioned for at least two or three years. As, in my opinion, the repairs of the groyne A, provided for in the accompanying estimate, which I request may be returned, were emergent, I authorized the execution of the work, and I therefore now solicit the sanction of Government for the transfer of Rupees 383 to Malabar from Rupees 5,000 allotted for minor repairs to ports and harbours in Tanjore District (Provincial Budget, page 17) which, the District Engineer states, cannot be utilized this year for the purpose intended.

2. The cause of delay in the submission of this estimate is in consequence of my having, on its receipt on the 24th of July last, desired the District Engineer to let it lie over pending the receipt of the orders of Government on my report above referred to recommending a maintenance grant for the groynes at Cochin which, I beg respectfully still to urge, may be granted. The estimate appears to have been lost sight of in the District Engineer's Office, as it was not again received by me until the 29th of December 1873.

No. 16. ORDER THEREON, 2nd February 1874, No. 240.

CIVIL WORKS, No. 3.

THE sum of Rupees 383 required to provide for emergent repairs ordered by the Inspecting Engineer to be under-

taken, in July last, to groyne A, at Cochin, and to certain brushwood and pile groynes for closing up Mr. O'Shaughnessy's channel, and another between dams two and three, is provided by transfer from the allotment of Rupees 5,000 for minor repairs to ports and harbours of the Tanjore District.

2. No estimate of the amount required to be allotted as a maintenance allowance for the Cochin Groynes having been submitted by the Inspecting Engineer, he will give instructions for the preparation in all April and May next, and timely submission before the monsoon, of such report and estimate of their state as may then be appropriate, any important changes that may have occurred being shown on the old survey.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Inspecting Engineer for Ports and Communications.
,, District Engineer, Malabar.
,, Officiating Controller of Public Works Accounts.
,, Financial Department.
,, Accountant-General.

Exd. E. C. Shunker.
Spare Copies

generally



N^o 482
482

3
Inspecting Engineer's Office for
Ports & Communications.
Chepauk - Madras.
17th January 1874.

From
The Inspecting Engineer for
Ports & Communications.
To
The Chief Engineer and
Secretary to Government
Public Works Department.

Enclosures.

- 1 Estimate. Rs 383
- 1 Specification.
- 2 to be returned.

Sir,
The District Engineer Malabar
has submitted to me, for sanction
and for an allotment of funds,
an estimate, amounting to Rs.
383, for repairing groynes of
and brushwood groynes of
Cochin Harbour. I brought
to the notice of Government
in para 12 of my report
printed with G.O. No. 2, 138,
dated 24th August 1873, the
condition of the groynes at Cochin
generally

generally and recommended that an annual maintenance grant of one rupee per running foot of groynes should be sanctioned for at least two or three years.

As in my opinion the repairs of the groyne A, provided for in the accompanying estimate, which I request may be returned, were emergent, I authorized the execution of the work, and I therefore now solicit the sanction of Government for the transfer of Rs. 383 to Malabar from Rs. 5000, allotted for minor repairs to Ports and Harbours in Tanjore District (Provincial Budget page 14) which, the District Engineer states, cannot be utilized this year for the purpose intended.

2. The cause of delay in the submission of this estimate is in consequence of my having, on its receipt
on

on the 24th of July last, desired the District Engineer to let it lie over pending the receipt of the orders of Government on my report above referred to recommending a maintenance grant for the groynes at Lochin which, I beg respectfully still to urge, may be granted. The estimate appears to have been lost sight of in the District Engineer's Office, as it was not again received by me until the 29th of December 1873.

I have the honor to be
Sir,

Your most Obedt Servt.

W. S. S. S. S.
Sd/-
Inspecting Engineer for
Ports & Communications

22/07/20

ed in charge

Mr. Davis

Komal B.

11

March 1881

Waterbury

10

July 1873

to the nation

Brook Green

in Hamburg

The diagram shows a 2D grid of points. A central point is labeled '0'. Points are labeled with integers i and j . A path is shown starting from the origin and moving to a point labeled i .

1894/10/10

Chas. J. Folger

Handwritten signature

to the

had virgin

1891

14th June 1910

20

482
482

...to ...

being to the

and, bearing down

Rocky

... and ...

28 friends

7

19

Cochin

Repairing grays A, Brushwood grays M. 186, closing up Ave C

"	"	102	"	"	Estimated running feet of plank and piles	@ . . . 6 cts	21 15 "	X
17	3	1	"	51	Total 6 yards of eastward plank and my grays M 6	@ " 16 cts	4 12 6 "	X
17	1/2	"	2	51	Estimated 6 yards of clay and turpentine blowing up for drainage channel	" 4 . 8 cts	12 12 "	166 11 11 "
9	"	48	"	"	Total M of account piles	@ . 8 " each	21 "	"
106	4	2	"	"	Total 6 feet of plank	@ " 8 . cts	35 5 4 "	X
106	4	4	"	"	Total 6 feet 6 1/2 1/2 6 yards of earth note	@ " 2 6 cts	9 13 "	X
"	"	1	"	"	Amount of rails	3 2 " from	3 2 "	69 4 4 "

Closing up the channel between the same M 283

1	"	20	"	"	Total 6 yards of earthwork	@ " 8 . each	10 "	"
17	3	15	"	"	Total 6 yards of turpentine with clay	@ " 4 . 8 cts	14 14 0 "	X
508	4	"	2	4 00	Total 6 yards of earthwork	@ 1 " " each	4 "	"

316 10 8
316 10 8

316 10 8

Estimated running 8 yards

Total 348 "

Estimated running 8 yards

Estimated running 8 yards

Estimated running 8 yards

Estimated running 8 yards

Estimated running 8 yards

Estimated running 8 yards

18 July 1873 3 502.00

Estimated running 8 yards

Estimated running 8 yards

Estimated running 8 yards

Work commenced on emergency by order of the Communications.

Specification for emergent repairs to grays A,
and brush and pit grayses and dams

1. *Groyne A* during this monsoon, the sea has cut in very much, and was threatening to outflank the groyne; the flanks had to be protected with sand bags, and broken laterite stones. If the sea is allowed to cut round the flanks, the groyne will be ruined, and there is no knowing where the sea will stop.

Push and pile groynes Nos 1 to 6 were constructed last year, to make the current straight, to cause deposits, and to prevent danger of breaches from the freshets, in the backwater, these have been damaged a great deal, by the strong land winds, and require more clay, and returfing, and the backwater slope is to be protected with piles 5 feet apart, and a row of planks, and planted inside with water plants.

There is an old inlet between dams 2 and 3, which requires to be shut up to prevent freshets getting through; this will gradually set up and so strengthen the brash. It requires piles 5 feet apart with ties lashed across, bamboomats to be put inside, and then the interior filled with clay, when this is raised to low water mark, outside slopes should be made of clay and turfed.

There is a channel near the Temple
grayne, formerly made to take stones. as its run
is close to the sea, it is a dangerous inlet, and
requires

General No 33 of 18/3/74

Estimate of the probable cost of repairing same and much distressed persons at Cross
Staircase in London and West Coast Canal Bridge at Walsingham District.

<i>Tolson</i>	
<i>Name of Work</i>	<i>Measurements</i>
<i>J. B. D.</i>	<i>M</i>
	<i>Contents</i>
<i>Draft: Encl:</i>	

Continuation of Work

State Government

Deftening kromme

Shaulinecoy's channel & another between groyne # 27 & 28

[illegible]

Inspecting Engineer for Ports and

From, *Chas. L. P.*

The Officer in Charge

Cochran W. Boat

Normal Range

The District Engineer

Wabash

Calcutt

Dated, } July 1893

*Estimate for repairing
Engine of Boat propeller
on Cochran Wabash No 348*



*Enclosed herewith
Letter No 4023 dated
14th January 1894.
From the District
Engineer for Ports
& Harbours in relation
to the Chief Engineer
and Sea to Coast.
D. W. West.*

*C. M. 351/4
11/4*

10. 22. 1893

21. 1. 1894

requires to be bundled up, in the manner above
set forth.

Cochin
15 July 1873

G. J. James.
Assistant Engineer S.P.W.

Malabar District Engineer's Office
Calicut July 1873

G. H. Bailey Captain
Asst. District Engineer Malabar

Enclosure No. 2 in a
letter No. 1002 dated
14th January 1874
from the Inspecting
Engineer for Ports
and Communications
to the Asst. Engineer
and sent to Coast.
G. W. Bailey.

G. W. Bailey
2

No. 249 Mr. D.
Proc. of the Madras Govt.

Read the following

from the Inspecting Engineer for
Ports & Communications } H.E. No. 482 of 17 Jan 74

The sum of Rs. 383
required to provide for
emergent repairs ordered
by the Inspecting Engineer
to be undertaken, in July
last, to Groynes ^{at Cochin} A and to
certain brushwood and
pile groynes, for closing
up Mr. O'Shaughnessy's
Channel, and another
between Dams 2 and 3,
is provided by transfer
from

M. 2
23/11

in the old Survey.
C.M.W.

from the allotment of Rs 5000
for minor repairs to
Docks and Harbours of the
Tanjore District.

No Estimate of
the amount required to
be allotted as a maintenance
allowance for the Bochin
Groyne having been sub-
mitted by the Inspecting
Engineer, he will give in-
structions for the preparation
in all April and May
next, and timely submission
before the Monsoon, of
such Report and Estimate
of their state as may
then be appropriate, any
important changes that
may have occurred being shown
in

50/6

To Mr. Insp. Engineer
The Insp. Eng. for Ports
& Harbours.
" Dist. Eng. Malabar
" Controller M. A. S.
" Financial Dept.
" Accountant Gen. S.
Recd in S.O. 3/2/24.

+ Recd 12/2/24.

No. 356
Govt. of 1874 Indras.
PUBLIC WORKS.

The Inspecting Engg
for Ports and
Communications

Dated

Recd.

Encl. 2

G. O. 2nd July 1874, No. 240.

No. 15116

Proyees at Kochin.

Referring to the letter from
the Inspecting, Ports & Comm.
forwarding list for the
repair of certain proyees.