

(1) Number of pages 14
 (2) Date of repair 4-11-86 ✓
 (3) Initials of the Referencer bug

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W.D. DEPARTMENT

G.O. No.	<u>4013.W</u>	Press.
B.P. No.		Mis.
Dated	<u>15.10.1878</u>	<u>197</u>

Not to be folded or roughly handled

12013
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT

15th October 1878, No. 4,013 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 198. From Lieutenant-Colonel R. B. KENNEDY, District Engineer, Malabar, to the Chief Engineer, Public Works Department, dated Lakidi, 1st October 1878, No. 73.

REFERENCE—G.O., No. 2,926 W, dated 19th July 1878.

With reference to above I have the honor to forward an estimate, amounting to Rupees 1,200, for throwing up a stone groyne at the north-west end of Cochin Harbour.

2. Owing to the depth of water I find that this is the least possible amount for which such a groyne can be made. In my letter, No. 47, dated 8th August 1878, mentioned Rupees 1,000 is the probable amount, that was only interded as an approximate calculation in response to the last line of G.O., No. 2,926 W. I have therefore the honor to request that Rupees 200 may be allotted in addition to the Rupees 1,000 named in G.O., No. 3,665, of 16th instant.

No. 199. ORDER THEREON, 15th October 1878, No. 4,013 W.

The estimate of Rupees 1,200 for throwing up a stone groyne at the north-west end of the Cochin Harbour is sanctioned.

2. There being no funds available under Provincial Reserve, the additional sum of Rupees 200 required will be provided from savings later in the year.

3. This sanction has been registered as Special No. 39 B of 1878-79.

(True Extract.)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Govt., P.W.D.

(True Copy.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the District Engineer, Malabar.

„ Examiner of Public Works Accounts.

„ Marine Department, with copy of Note by the Hon. W. Huddleston.

Ed. T. D. Ryan.
Spare Copies

12013

Runniggs

¹⁸⁷⁰ Estimate of the probable cost of throwing up a Stone Groyne at the north-west end of the Cochin Harbour - ¹⁸⁷⁰⁻⁷¹ Polignault Division Malabar District.

Name	Sex	Subst. culti- -pical	Measurement: Contents
L B G			

Boeing
Showing up a stone house at Cedar

Measurement	Contents	Particulars
L B G	Super. culti- ficial soil	

Stone boulders for main body of Groyne—
do. for slope in front of
cft or 23 cys. nearly stone groyne—
erecting sheers including shifting them
as groyne work progresses
Subsidence 1' 2" - 8"

Supplies \$60-80-
Incidentals 10-
Contingencies 60-100-

Amount of Estimate Regress 1200 " " X

Lochin 25th September 1878.
Checked *W.H.*

W. F. Fanning & Sonnets Coll.

Ritt: Engman, Malabar,

Assistant Engineer J. P. W.

Specification to accompany Revised Estimate
No. 1200 for throwing up a stone Groyne at
the north west end of Cochin Harbour
Palghat Division Malabar District

Direction of
Groyne

The groyne should be run out in the direction
of the beach at Vypean i.e. it will be at right
angles to the tangent of the curve of the South
Beach as shown on Plan.

In lieu of a plank road as entered in
the original Estimate, it is proposed to erect
sheers to raise the stones (brought to site at low
tide in Junglars from Hakamaad Quarries) -
and to set them down in the required places,
the sheers being shifted as the length of groyne
increases. Beginning at the land side and
laying down 2 or 3 layers of boulders, the low-
est consisting of 4 boulders and the topmost, of
2 boulders the interstices being filled with
small stones, and having side slopes of $\frac{1}{2}$ to 1
as per marginal sketch.

Section



The groyne is to have a length of 50 feet at top,
and a top width of 6 feet, with a slope of one to
at its north western extremity, to prevent the
boulders slipping into the deep part.

The average allowance for sinkage is as-
sumed at $\frac{3}{4}$ of a foot or about $\frac{1}{12}$ of the depth
instead of $\frac{1}{6}$.

Malabar

Malabar District Engineer's Office
No. 1144/78

Cochin

25th September
1878

Assistant Engineer
D. P. W.

Deputy Engineer, Malabar,
Coastal Engineer, Malabar,

No. 73

Malabar District Engineer's Office

Malabar District Engineer's Office
No. 1144/78

From

The District Engineer

Malabar.

To

The Chief Engineer,

Roads and Buildings,

Madras.

Sir,

Reference. G. O. No. 2926 W dated 19th July 1878.

With reference to above, I have
the honor to forward an Estimate amounting to
Rs. 1200 for throwing up a Stone Groyne at the
North west end of Cochin Harbour.

2. Owing to the depth of water, I
find that this is the least possible amount for which
such a groyne can be made. In my letter No. 47
dated 8th August 1878 mentioned Rs. 1000 is the pro-
bable amount, that was only intended as an ap-
proximate calculation in response to the last
line of G. O. No. 2926 W. I have therefore the honor
to request that Rs. 200 may be allotted in addi-
tion to the Rs. 1000 named in G. O. No. 3665 of 16th
Instant.

S

I have the honor to be
Sir

Your Most Obedt. Servant

W. S. Murray Lieut. Colonel

District Engineer, Malabar.

10/3/5

GO no 3665W of 16-9-78
no 2926W of 19-7-78

R.H. 1873 C. 100
Roads and Buildings.

From
The District Engineer,
Malabar.

No 73
Dated 1st October 1878.
Read 5th

Enclosure 1

Stone Groyne at Cochin Harbour
forwards an estimate
for Rs 1200 for throwing up
a ———

To acty 7-10-78 to 17-10-78
Cir 9-12-78

154 R
works.
No 4013W
Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 15 Oct 78. ^{154 R}
Read the following:— ^{154 R}

From, The D. Engineer
Malabar } (No. 73 of 1st Oct 78.)

The estimate of
Rs 1200 for throwing
up a stone groyne
at the north-west end
of the Cochin Harbour
is sanctioned.

There being no funds
available under Provincial
Reserve, the additional
sum of Rs 200 required
will be provided from
savings later in the
year.

D. E. Malabar

Execd P. D. Acc to H. S. Estimate

In view of the fact that the
estimate is sanctioned
this sanction has been
registered as Special No. 89 of 1878
11/10 Dec 30-10-78

18-11-11

11/11/11



Govt. of (1878) Madras.

PUBLIC WORKS.

To

H. E. Malabar

Dated

Issued

Recd.

Encl.

G. O. 15 Oct 1878, No. 40136

Nos. 198-199

Cochin Harbour.

The estimate of Rs. 1200 for throwing up a stone pyrene at the north and west end of the —
sanctioned.

Submitted
282

Cir 91078 2000 15-10-78