

(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.            | 2359 | Press           | <i>Original</i> |
| <del>B.P. No.</del> |      | <del>Mis.</del> |                 |
| Dated               | 16-8 | 1875            |                 |
|                     |      | 195             |                 |

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,  
16th August 1875.*

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No. 272. Read the following letter from Major J. BEATTY, R.E., Acting Superintending Engineer, Godavery District, to Lieutenant-Colonel J. MULLINS, R.E., Officiating Secretary to Government, Public Works Department, dated Dowlaishweram, 29th July 1875, No. 1,327 :—

As directed in the latter part of paragraph 3 of G. O., No. 1,271, of 5th May 1875, I have now the honor to submit a report and revised estimate by the officer in charge, Eastern Delta Range, on the cost

1 Report.  
1 Estimate.

of completing the groyne or river wall on the south side of the Cocanada river, below the bridge.

2. The original estimate amounted to Rupees 50,000 ; the expenditure up to end of May 1875 was Rupees 14,687-14-3 ; and at the same rates as those at which the work already done has been executed, the south groyne may be completed for—

|   | RS.    | A. | P. |
|---|--------|----|----|
|   | 14,687 | 14 | 3  |
| + | 23,800 | 0  | 0  |
| = | 38,487 | 14 | 3  |

But allowing himself a margin for possible contingencies, Captain Brockman's revised estimate amounts to Rupees 39,920.

3. The revised estimate includes two landing places, which the Municipality consider should have been provided for owing to the greater difficulty of landing now that the walls have been built. One of these landing places, on the Cocanada side, is really an entirely separate work, but as the north groyne was constructed from Imperial Funds, I have taken the opportunity to include it also instead of sending in a separate estimate, and as the cost is not great.

4. About one-third of the work had been completed at the end of 1874-75, and the remainder may be completed by the end of 1876-77.

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From Captain R. R. E. BROCKMAN, R.E., Executive Engineer, in charge No. I. or Eastern Delta Range, Godavery District, to Major J. BEATTY, R.E., Acting Superintending Engineer, Godavery, dated Dowlaishweram, 16th July 1875, No. 210.

In continuation of my letter, No. 137, dated 9th June 1875, relative to the Harbour plant and the construction of the Cocanada south groyne, I have the honor to forward, herewith,

1 Statement.

a statement showing the particulars required in your letter, No. 711, dated 31st May, paragraph 3, and G. O., No. 1,271, dated 5th May 1875, which accompanied it.

2. From the works register kept on the work it appears that a larger quantity of old stone than was originally provided for in the estimate was found available, and this was accordingly utilized, thereby increasing the quantity of work done under that head. To this amount was added the quantity of new stone used on the work, and the total divided by the length in yards of groyne that has been completed. The quotient represented the number of cubic yards per yard run actually built in the groyne. This has been found to be  $8\frac{1}{2}$  cubic yards instead of 6 cubic yards, as originally calculated for. This I attribute to the fact that the groyne during the process of construction repeatedly sunk into the ooze upon which its foundations were laid, and was subsequently raised again and again to its proper level by the addition of more new stone.

Proceedings of the Madras Government, Public Works Department,  
16th August 1875.

Taught by experience therefore, I have allowed in the revised estimate this increased quantity per yard run, but at the average\* rate for which it will, in my opinion, be feasible to carry the work to completion. The rates for earthwork and old stone have also been reduced to those which have proved to be sufficient.

\* Rupees 1-8-0.

3. The cost of providing two landing places to the north and south banks of the river for Cocanada and Jagannaikpuram has also been included, and brings the total of the revised estimate to Rupees 39,920 instead of Rupees 50,000, as originally estimated; about one-third of the work up to May 1875 has been completed, and I estimate that the remaining two-thirds will be carried out to completion by the end of the year 1876-77, or the middle of 1877-78. Under these circumstances, an allotment of Rupees 15,000 for this work may be made in the Budget for 1876-77.

No. 273. ORDER THEREON, 16th August 1875, No. 2,359.

CIVIL WORKS, No. 20.

THE estimate revised in accordance with the rates which experience has proved to suffice, amounting to Rs. 40,000, will be substituted for that amounting to Rupees 50,000, sanctioned in G. O., No. 1,868, of 23rd July 1873.

2. A sum of 10,000 Rupees or balance of estimate will be provided in the Provincial Budget from Port Funds next year.

(True Extract.)

Major-General, R.E.,

Secretary to Government.

To the District Engineer, Godavery.  
" Marine Department.  
" Controller of Public Works Accounts

From

The Officer in charge No. 1 or Eastern  
Delta Range, Godavery District.

To

The District Engineer,  
Godavery District,  
Dowlaiswarum.

SIR,

In continuation of my letter  
No. 137 dated 7 June/75 relative to the  
Harbour Plant & the construction of  
the Cocanada South Groyne, I have  
the honor to forward herewith a state-  
ment showing the particulars required  
in your letter No. 71 dated 31 May/75 para  
3 & 4. Also No. 127 dated 21 May/75 which  
accompanied its and I send a copy of it.  
2. From the marks Register kept on  
the work it appears that a larger  
quantity of old stone than was originally  
provided for in the estimate is now  
found available. This was accordingly  
utilized thereby increasing the quantity  
of work done under that head. So this

amount was added the quantity of  
new Stone used on the work & the  
total divided by the length in yards  
of groyne that has been completed.

The <sup>quotient</sup> ~~dividend~~ represented the number  
of cubic yards per yard run actually  
built in the groyne. This has been  
found to be  $8\frac{1}{2}$  cys. instead of 6 cys.  
as originally calculated. This I  
attribute to the fact that the groyne  
during the process of construction  
repeatedly sunk into the ooze upon  
which its foundations were laid &  
was subsequently raised again & again  
to its proper level by the addition of  
more new Stone. Taught by experience  
therefore I have allowed in the revised  
estimate this increased quantity per yard  
run, but at the average rate for which <sup>+</sup> ~~Dupont~~  
it will in my opinion be feasible  
to carry the work to completion. The  
rates for new work & old Stone have also

been reduced to those which have  
proved to be sufficient. 3 4

3- The cost of providing two landing  
places to the North & South banks  
of the River for Log canals & Jagannath  
- puram has also been included, and  
brings the total of the revised estimate  
to Rs. 39920 instead of Rs. 50000 as  
originally estimated; about  $\frac{1}{3}$  of the  
work up to May/76 has been completed, and  
I estimate that the remaining  $\frac{2}{3}$   
will be carried out to completion by  
the end of the year 1876-77, or the  
middle of 1877-78. Under these cir-  
- cumstances, an allotment of Rs. 15,000  
for this work may be made in the  
Budget for 1876-77.

I have the honor to be  
Sir  
Your most Obedt. Servt.  
A. M. S. Murray  
Executive Engineer

Dep<sup>y</sup> 30<sup>th</sup> Aug 1

No. 1327

From

The Asst. Supt. District Engineer  
Godavery District

To

The Secretary to Government D. P. W.  
MADRAS

SIR,

As directed in the latter part of para 3 of G. O. No. 1271 of 5<sup>th</sup> May 1875, I have now the honor to submit a report and revised estimate by the officer in charge Eastern Delta Range on the cost of completing the groyne or river wall on the south side of the Cocanada river below the bridge.

2. The original estimate amounted to Rupees 50,000; the expenditure up to end of May 1875 was Rupees 14687-14-3; and at the same rates as those at which the work already done has been executed the south groyne may be completed for Rs. 14687-14-3

$$\begin{array}{r} + \quad 23800-0-0 \\ \hline = \text{Rs. } 38487-14-3 \end{array}$$

But allowing himself a margin for possible contingencies.

To  
The Officer in charge No. 1 or  
Eastern Delta Range  
Godavery District.

The District Engineer Godavery  
Dowlaiswarum.

Dated 16<sup>th</sup> July 1875  
Despatched 17<sup>th</sup> July 1875  
Received 18<sup>th</sup> July 1875

No. 210  
Encl<sup>y</sup> one

30<sup>th</sup> August 1875  
I have the honor to acknowledge the receipt of your letter of the 29<sup>th</sup> inst. in relation to the above and the same has been forwarded to the Secretary to Government for their consideration.

Yours faithfully,  
The Asst. Supt.

(7)

contingencies, Captain Brockman's revised estimate amounts to Rupees 39,920-0-0.

3. The revised estimate includes two landing places which the municipality consider should have been provided for owing to the greater difficulty of landing now that the walls have been built. One of these landing places, on the Cocanada side, is really an entirely separate work, but as the north groyne was constructed from Imperial Funds I have taken the opportunity to include it also instead of sending in a separate estimate, and as the cost is not great

4. About one third of the work had been completed at the end of 1874-75, and the remainder may be completed by the end of 1876-77.

I have the honor to be,  
Sir,

Your Most obedient Servant  
J. Beatty. Major R.E.  
Ag. Superintending Engineer G.D.

Public Works Dept.

No. 2359

Proceedings of the Madras Government  
Under date the 16 Augt 1875  
Read the following

From  
The Supg. Engineer } (H. E. No. 1327 of 29<sup>th</sup> July 1875)  
Godavery

The Estimate  
revised in accordance  
with the rates which  
experience has proved  
to suffice, amounting  
to Rs 40,000, will be  
substituted for that  
amounting to Rs 50,000  
sanctioned in G.O. No.  
1868 of 23<sup>rd</sup> July 1873.  
A sum of 10,000  
Rupees

Received  
18.12.75

13th Dec 1875  
17th Dec 1875  
19th Dec 1875

To  
The District Engineer,  
Godavery District.

The Secretary to Government  
Department Public Works  
MADRAS

Dated. 29<sup>th</sup> July 1875  
Received. 5<sup>th</sup> Aug 1875

NO. 1327  
Encls. Two

Subject.

Reporting on the  
provable cost of  
the south project  
at Coimbatore, and  
its provable state  
of completion.

Rupees or balance  
of Estimate will be  
provided in the Provincial  
Budget from Port Funds  
next year.

Jan 11/9

*[Faint, mostly illegible handwritten notes]*

27 2/3  
D. J. Lodwick 9  
Mining Dept 7  
Cmtr M/W/C 5  
- 16

1 Comparative  
Estimate  
S e made 31-8-78

5066

Govt. of ~~1875~~ Madras.  
PUBLIC WORKS.

To

M. Supp.  
Godavery

Dated

Issued

Recd.

Encl.

G. O., 16 Aug: 1875, No. 2359

Nos. 272-273

South Groyne at Cocanada.  
Passing orders on letter of  
the Super: Engr: Godavery,  
reporting on the probable  
cost of the ——— & its  
probable date of completion.