

(1) Number of pages 2

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(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	23.	Press.
B.P. No.		Mis.
Dated	5-1-1877	197

Not to be folded or roughly handled

Archives 1-5,806-24-2-78.

22

Read at
No.
No. 269. *Note by the Chief Engineer*

THE estimate submitted by the Surveyor-General for the improvement of the left embankment of the Central Delta to the Gunnaram aqueduct is 29 miles, and the arrangements proposed are—
Top of bank to be 4 feet above the level of 1853.
Top width of bank 9 feet.
Slopes $1\frac{1}{2}$ to 1.

2. The estimate was transmitted pending the result of references which have been made to the Surveyor-General, flood levels, &c., in connection with the improvement of the Godavari. It is believed that the Polaram island embankments make it probable that there is no room for error, and that the embankments will be safe.

3. There is an existing embankment on the left bank of the Godavari, which is included in the expenditure on the Delta System, which latter has therefore been included in the cost of the protection afforded. The tract of country between the embankments and the Amalapore canal is a little over 100 square miles. The aqueduct carries the canal (west bank) across the Vaintayam branch of the Godavari, which also is partially embanked; but before estimates can be submitted for completing the embankments in this section, the future treatment of the branch, which is liable to heavy erosions from sets, will need to be determined.

4. The longitudinal and cross sections show clearly the urgent need of reformation. The present embankments are in many places considerably below the level of the fresh of 1873, and the fresh of 1875 found its way into this Delta at several places. No estimate of the work to be done in each mile has been furnished, neither has it been stated how much of the land to be protected is Government and how much Zemindary; but, as the Zemindars cannot, it has been decided, be required to contribute, the absence of information on this point is not of much practical importance. Of the 29 miles of embankment $13\frac{1}{2}$ run alongside the West Bank canal, and, so far as may be practicable, soil for raising the flood bank should be obtained by cutting the canal to its intended section, and the value of this part of the work will be chargeable to the canal.

5. The following is a classified abstract of the estimate:—

ORDINARY AGRICULTURAL.					
River Embankments.					
Left bank of Vasista Godavery above Gunnaram aqueduct.					RS.
B Compensation for land	...	...	...	...	2,550
L Earthworks	...	...	...	...	31,850
Total, Works					34,400
Establishment, 25 per cent.	...	...	...	...	8,600
Tools and Plant	...	...	...	...	...
					43,000

FORT ST. GEORGE,
29th November 1876.

To the Secretary to Government, Public Works Department.

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

ng:—

for Irrigation.

Chief Engineer, Godavery, for the
Vasista Godavery from the head of the
to Rupees 34,400. The distance
follow:—
level of 1853.

last, and its disposal was deferred,
for further information regarding
for the left and right flood banks
the inquiries made for these and the
certain that there is no room for
igned will be safe.

throughout the 29 miles covered by this
included in the expenditure on the
uted its full share to the cost of the
rested is that included between the
the Gunnaram aqueduct on the former

The area is a little over 100 square miles. The aqueduct
carries the canal (west bank) across the Vaintayam branch of the Godavery, which
also is partially embanked; but before estimates can be submitted for completing the
embankments in this section, the future treatment of the branch, which is liable to
heavy erosions from sets, will need to be determined.

Proceedings of the Madras Government, Public Works Department,
12th December 1876. No. 3,373.

ABSTRACT ESTIMATE.

CENTRAL DELTA DIVISION, GODAVERY.

Head of Service.—Irrigation.

Fund.—Ordinary Agricultural.

Class.—Original Works.

Main-obj.—River embankments.

Work.—Raising embankment of Vasista Godavery left bank
from head of Central Delta to Gunnaram aqueduct.

Quantity.	Description of Work.	Rate.	Per	Amount.	Total.
341,378 1/2	Cubic yards of earthwork.	Rs. A. P.		Rs. A. P.	Rs. A. P.
341,378 1/2	Ramming	1 4	C. yd.	28,448 2 8	
	Compensation for pit crops.	0 1		1,778 0 2	
	Contingencies...	...	...	2,550 0 0	
	Total...	...	...	...	32,776 2 10
					1,623 13 2
					34,400 0 0

17th March 1876.

(Signed) J. ELLIS, Sub-Engineer,
In charge Central Delta Division.

No. 270.

ORDER THEREON, 12th December 1876, No. 3,373.

IRRIGATION, No. 26.
Account.

THE estimate of Rupees 34,400 for
improving the flood embankments on the
left bank of the Vasista Godavery from
the head of the Central Delta to the Gun-
naram aqueduct, a distance of 29 miles, is sanctioned for entry in the Budget of
1877-78.

2. This sanction has been registered as No. 211 I. of 1876-77, as follows:—

Irrigation.

Ordinary Agricultural.

River embankments.

Name of Work.—Embankment, left bank of Vasista Godavery above
Gunnaram aqueduct.

Amount of Estimate.—Rupees 34,400.

3. These Proceedings will be forwarded for the consideration of the Government
of India in continuation of those as per
margin, with reference to paragraphs 8
and 11 of letter, No. 2,448, dated 13th
September 1876.

(True Extract.)

Comptroller Major-General, R.E.,
Secretary to Government.

To the District Engineer, Godavery.
" Collector of Godavery.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

Exd. E. C. Shunker.
Spare Copies

Recd. *13* Depon
No. 6107

Govt. of 1876: *Madras*

PUBLIC WORKS.

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THE DISTRICT ENGINEER,
GODAVERY

Dated December 12th.

Issued

Recd. *27*

Encl.

G. O. 12th December 1876. No. 3378.

DECEMBER.

Nos. 269-270.

No. 23

Comm. to the
Board of Revenue

5 Jan 77

Recd. *5 Jan 77*
Country from head of Central Depts. to the
Madras Adm. Board - Estimate for improve-
ment of the ...