Public Works (1896) Department.

G.O., No. 4881

Dated 10-6-96

[Despatch Abstract.]

Bridge: Estimate of Rs 25,000 for extending the —— at 7 miles 15 chains, Nallamada drain, Kistna Western Delta, sanctioned.

[P.W. 68. 1896-23-11-96.]

G.O. No.	Department.	Date.	G.O. No.	Department.	Date.

FURTHER PAPERS.

G.O. No.	Department.	Date.	G.O. No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Govt. of {1896} Madras.

PUBLIC WORKS.

Dated June, 10th.

Read. *Enel.*

G.O. No. 488 I., 10th June 1896.

JUNE.

Bridge

Estimate of Rs. 25,000 for extending the — at 7 miles 15 chains, Nallamada drain, Kistna Western delta, sanctioned.

No. 488 I., 10TH JUNE 1896.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following paper:—

From Major W. L. C. BADDELEY, R.E., Superintending Engineer, II Circle, to the Chief Engineer for Irrigation, dated 1st May 1896, No. 260 K.W.

I have the honour to forward herewith, for your approval and sanction of Government, an estimate amounting to Rs. 25,000 for extending the bridge at 7 miles 15 chains, Nallamada drain, Kistna Western delta.

2. The amount of the estimate may be met from the balance of provision of Rs. 1,53,130 under item No. 704 of the statement printed with G.O. No. 857 I., dated 11th October 1893.

3. The report which accompanies the estimate explains the necessity for the work.

ENCLOSURE.

REPORT to accompany estimate for extending the bridge at 7 miles 15 chains, Nallamada drain.

Amount of estimate, Rs. 25,000.

2. The existing bridge consists of 5 spans of 20 feet each. It is constructed of brick in mortar, has segmental arches, and is in good order. It is proposed to increase the waterway by adding 5 spans of 20 feet each similar in design to the old bridge.

3. The chief variations from the old design are—

(1) The piers will be 3 feet instead of 5 feet thick.

(2) The flooring will consist of front and rear retaining walls with rough stone packed dry between them and rough stone aprons in front and rear instead of a masonry floor.

Rough stone front and rear aprons will also be added to the old work.

(3) Cut stone cut waters and caps instead of brick plastered.

4. To correspond with the old work the bridge will be built entirely of brick in mortar resting on concrete foundation 4 feet thick.

The cut waters and caps will be of cut stone.

5. The bridge is situated on the Nallamada drain below the infall of the Pundla affluent.

The theoretical bottom width of the drain (*vide* G.O. No. 499 I., dated 27th August 1888) is 189 feet, depth of water 7 feet, and slopes 2 to 1.

The mean waterway is therefore 203 feet and the waterway provided in the bridge is 200 feet.

6. It is important that the afflux should be reduced to a minimum, as in high floods the flood waters spill over the low cultivated land to the left or east of the drain.

7. The drain has now been excavated to a bottom width of about 90 feet and no further widening can be carried out until the bridge has been extended.

8. As will be seen from the Government Order quoted in paragraph 5 it is only intended to excavate the drain to a tentative width at present, and on this account the spoil has been placed entirely on the right bank. The spoil still to be got out will also be placed on this bank. This will permit of future widening being easily carried out on the left side. It will be easy to extend the bridge on this side also should it be found necessary to do so hereafter.

9. This bridge carries the Guntór-Bápatla road on which there is a very considerable amount of traffic, and as the drain is wide and deep, it would be extremely inconvenient if the traffic had to be diverted through the drain except during the hot and dry months. It will therefore be necessary to collect all materials and then push the work through as rapidly as possible. Good drinking water has also to be brought a considerable distance during the hot months.

For these reasons it has been considered necessary to allow good rates.

10. It has been considered advisable to provide Rs. 2,000 for baling, but judging from pits excavated in the bed of the drain, the sub-soil appears to be black-cotton soil merging into clay; and if that is the case, there will be little or no trouble from spring water.

11. A very heavy flood discharge is carried by the Nallamada drain, so it is of great importance to extend this bridge and widen out the drain as soon as possible. Early sanction is therefore requested.

12. The road is a banked road and a heavy drainage discharges down the road side pits on the left side above the bridge, so a masonry inlet has been provided to pass it into the drain without injuring the bridge.

13. The estimate is recommended for sanction from the balance of provision Rs. 1,53,130 under item 704 of statement printed with G.O. No. 857 I., dated 11th October 1893.

The balance Rs. 1,28,130 that will then remain against this item should not be carried to the provision for unforeseen works as it is required for other masonry works on the Tungabhadra drain and its affluents.

(Signed) A. A. G. MALET,
Ex. Engr., Kistna Western Divn.

No. 110 I.

Submitted with a recommendation that the estimate forwarded by the Superintending Engineer, II Circle, be sanctioned.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

25th May 1896.

Order—No. 488 I., dated 10th June 1896.

The following estimate is sanctioned from the provision made for item 704 of the statement printed in Proceedings of Madras Government, No. 857 I., dated 11th October 1893:—

Capital expenditure not charged to Revenue.
49. Irrigation.
Kistna Delta System.
Western Section.
I. Works.
4. Drainage and Protective Works.
Nallamada Drain.
3. Works.
Extending the bridge at 7 miles 15 chains.

	Rs.
Estimate	25,000

2. This sanction is registered as No. 49 I. of 1896–97.

(True Extract.)

Under Secy. to Govt., P.W.D.,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, II Circle, with six enclosures.
" Examiner, Public Works Accounts.

Exd. P. Seetharam.
Spare Copies

A

No 488 I, dy 10th June 1896.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 49

READ the following

From Supt Engr. II Circle, No 260 KW 1st May/96
Rec 110 I dy 25th May/896.
Submitted with recommendation that the estimate forwarded by the Supt Engr. II Circle, be sanctioned.

A.SH
30.5.96

Order thereon.

The following estimate is sanctioned from the provision made for item 704 of the statement printed in G.O. No 857. I., dy 11th Oct 93:—

Capital Expenditure not charged to Revenue.
4 Q. Irrigation

Kistna Delta System.
Western Section.
I Works.
4. Drainage Protection Works
Kallamada Drain
3. Works.
Extending the bridge at 7 miles 15 chains -
Estimate Rs 25000

2. This sanction is registered as No 49 I of 1896-97.

Recd 25/5/96

25/5

W. CURRENT No. 5219

Estimate for extending bridge at 7 m 15 ch. Kallamada Drain, Kistna Western Delta

Encls 7 (2 plans)

Recd: 5.6.96

7.6.96

Issued

Recd

I Regd

RECEIVED
24 JUN 96

To the Chief Engr for I.
Supdg Engr II with 6 encls.
EE 7.6.96
Initials

E. I. Form No 1—1,000—27-11-95.

Secs 15/5/96

O.S. 122

KW

Superintending Engineer's Office.

No. 260 KC

II Circle,
Dated 1 May 1896.

From,

Major W. R. E. Baddeley R.E. Esquire,
Superintending Engineer,
II Circle.

To,

The Chief Engineer,
For Irrigation,
Madras.

Sir,

Encls. 10 + A E.6
1 Data
1 Report
2 Tracing
5

I have the honour to forward herewith for your approval and sanction of Government an estimate amounting to Rs 25,000 for extending the bridge at 7m. 15 Ch. Kallamada Drain. K.W. Delta

2. The amount of the estimate may be met from the balance of provision of Rs 1,53,130 under Item no 704 of the statement printed with G.O. no 857 I of 11.10.93.

3. The report which accompanies the Estimate explains the necessity for the work.

I have the honour to be
Sir
Your most obt. Servant
W. R. Baddeley Major R.E.
Supdg Engr. II Circle.

W.1

From

The Supdg Engineer
2nd Circle.

To

The Chief Engineer
For Irrign:
Madras.

No. 260 dtd
1.5.96

Encls 5.

Cancl
Sd 9/5/96

Brief at 7 m. 15 Ch:
Nallawada Drain-
Forwards for Sanction
Estt: Amtg to Rs 25.000
for Contgt:—:

499 dtd 27-5-88
857-58 dtd 11-10-93.

CHIEF ENGINEER
FOR IRRIGATION

From,

The Superintending Engineer,

II Circle.

To,

The

Dated } 18 .

Received

Enclosures.

NO.

SUBJECT.