

G.O., No. 2951 W

DATED 17th October
1896

19/10/96

[Despatch Abstract.]

Bridge. Estimate of Rs. ^{22,370}~~22,730~~ for constructing a
— over the yeluru river near the Simson's Lock
on road from Arcanada to Samalkot in the
Godavari District, Sanctioned.

90
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T.C. 17/10 1896

No. 2951 W., 17TH OCTOBER 1896.

Buildings and Roads.
Civil Works.

From A. H. GARRETT, Esq., Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 20th December 1895, No. 2241 G.D.

I have the honour to forward herewith plan and estimate, amounting to Rs. 20,400, for constructing an iron girder bridge, 60 feet span, over the Yeleru river on road from Cocanada to Samalkot at Simson's lock, and to request that you will be good enough to obtain the sanction of Government to the same.

2. Extract from the Proceedings of the District Board, Górávári, passed at its meeting held at Rajahmundry on 16th November 1895 is also enclosed.

From V. A. BRODIE, Esq., President, District Board, Gódávári, to the Chief Secretary to Government, dated 1st August 1896, Ref. on Cur. No. 1291/D.B.

Adverting to the correspondence ending with G.O., No. 1377 M., dated 23rd August 1895, and paragraph 23 (3) of my letter No. 2802 D.B., dated 23rd December 1895, submitting the District Board's budget for the current year, I have the honour to submit herewith, for reference and return, four plans and an estimate for Rs. 22,370, duly scrutinized by the Superintending Engineer, for constructing a bridge over the Yeluru river near the Simson's lock at Cocanada, and to request that the Government will be pleased to sanction the project, the same having been passed by the District Board in its Resolution No. 16, dated 25th July 1896—*vide* copy enclosed.

No. 939, Local and Municipal.

Transferred to the Public Works Department.

FORT ST. GEORGE,
12th August 1896.

(Signed) W. W. PHILLIPS,
Acting Assistant Secretary.

ORDER—No. 2951 W., dated 17th October 1896.

The estimate, amounting to Rs. 22,370, for constructing a bridge over the Yeluru river near the Simson's lock, on road from Cocanada to Samalkot in the Gódvári district, is sanctioned.

2. This sanction has been registered as Local No. 9 W. of 1896-97.

(True Extract.)

Under Secretary to Government.

To the Superintending Engineer, I Circle.
 " Examiner, Public Works Accounts.
 " Local and Municipal Department, with seven enclosures.
 Sd/- T. K. Narayana Aiyangar.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government { 1896 } of Madras.
PUBLIC WORKS.

Recd.

Enclosures

1896.

Regd.

Spare copies

G.O., No. 2951 W., 17th October 1896.

OCTOBER.

Bridge

Estimate of Rs. 22,370 for constructing a -- over the Yeleru river near the
Simson's lock, on road from Cocanada to Samalkot in the Gódávári district, sanctioned

PUBLIC WORKS DEPARTMENT.

Estimate for a bridge over
the Yeleru river near
the Simson's lock at Cocanada.
No. 2951. W. of 17th October 1896.
PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

From the Suptg. Engineer, I Circle, No. 224, Dtd 20 Dec 1895.
" the President of Board, Godavari No. 1291 of 1 August 1896.
Endorsement thereon in the Local and Municipal Dept. No. 939 of 12 August 1896.

The estimate, amounting
to Rs. 22,370, for constructing a
bridge over the Yeleru river
near the Simson's lock on
road from Cocanada to
Samalkot in the Godavari
District is sanctioned.

2. This sanction has been
registered as Local No. 9 W
of 1896-97.

To the S.B. I Circle ✓
" Exar. P.W. Accts ✓
" L & M. Dept with enclos. ✓

40-300-5-3-96.

H.C. 10/10

9/10/96

Cu

Public Works Department.

Current No. 7382

Letter No. 939

Dated 12 August 1896

From the Local and Municipal Dept.

NOTE BY TECHNICAL SECTION.

Name of work Constructing a Bridge
over the Yleru River near
Simson's Locks on Road
from Boconada to Samulcottah
in the Godavari District.

Amount of Estimate Rs. 22,370

With reference to C.E.'s Memo
No. 1038.C. dt. 24. 2. '96, the
President District Board submitted
thru' the L. and J. Dept. revised
Plans and Estimate for the
above work

The amount of the Estimate
has been increased from Rs.
20,400 to Rs. 22,370

The suggestions made in
C.E.'s Memo: above referred to
have, in the main, been complied
with. Nature of Soil and Subsoil
at various depths are shown
on the Plan. The foundations

T K
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of the Abutments have been deepened from 7ft to 12ft. and now extend 3ft into the hard mud. The foundations now proposed for the abutments are rectangular wells, with walls 2ft thick of brick in Surki mortar, filled in with Concrete in Surki mortar.

Detailed Plans of Ratticed girder are submitted. The girder weighs 30 tons complete and costs including Sinking charges Rs 9050, which works out at Rs 15.1.4 per cwt. fixed, which appears a fair rate.

For other constructional details and remarks as to rates please see T.S. note of 4 February '96.

The Hydraulic details given are very meagre, but from what is noted in Plan, it is inferred that the Yelum is a tidal stream with a Max. High Tide of 45.41, and Min. Low Tide of 41.41, or a variation of 4ft. The waterway at 41.41 is diminished by 56 sq. ft. from 760.8 to 704.6, or about $\frac{1}{4}$ of original waterway. At M.H.W.T. 45.41 the waterway is reduced from 1192.9 to 1044.6, a decrease of 158 sq. ft. representing $\frac{1}{5}$ of original waterway. The bottom of the girder is 3.57 ft above M.W.L.

The revised Plans & Estimate have been countersigned by the President Dist. Board, and Sanctioned in the Board's Proceedings of 25th July 1896.

2.10.96
29.9.96

This Estimate may now be passed.
C.S.M.
9.10.96.

Public Works Department.

Current No. 118
Letter No. 22192
Dated 20th December 1895
From the Deputy Engineer S. Circle.

NOTE BY TECHNICAL SECTION.

Name of work Constructing a bridge over the Yelum river, on road from Cocanada to Samalarkh at Simson's lock in the Godavari District.
Amount of Estimate Rs 20,400.

The S.E. Circle submits for the sanction of Govt. a plan with estimate for constructing an iron girder bridge of 60 feet span over the Yelum river, on road from Cocanada to Samalarkh at Simson's lock, Godavari District.

In the report accompanying the estimate it is stated that the west abutment of the old bridge at Simson's lock fell in 1893, owing chiefly to the leakage of the water supply trough having been allowed to go on for years unchecked. Since then the Municipality have carried the water across the river by supporting their trough in a temporary manner & considered the want of a bridge as unnecessary, as the building of a new bridge would be difficult owing to the bottom level of the water supply trough being below high flood level.

It is to be written to the effect that the Chief Engineer, presuming, though the depths of surface & abutment are not stated, that the foundation will reach the latter, considers that the foundations are not deep enough for black cotton soil & is of opinion that they might with advantage be made 9 feet deep, the lower 6 feet being of hydraulic concrete.

No detailed drawings for the river-

It is now proposed to construct a new girder bridge of 60 feet clear span, or 20 feet more than the old bridge, at a point some 30 feet below the old bridge with the girders placed 5.41 feet above maximum flood level & to carry the water supply, either by a siphon or a trough girder from a place about 2 or 3 feetings above the lock in order to ensure a pure supply of water free from rubbish, filth &c. that collect at the Simsa's lock & finds its way through the only outlet water supply sluice, into the supply channel.

The surface soil is stated to be sand & the sub-soil black cotton mixed with sand, but the depth of such soils have not been measured.

The bridge is to be of 60 feet span with a roadway of 15 feet between wheel grounds. The foundations of the abutments & wings are proposed to be laid to a depth of 7 feet; the lower 5 feet to be granite & the upper 2 feet together with the superstructure built of rubble in mortar & pointed with surki. The bridge is to be floored throughout with rubble in mortar to a depth of 2 feet with retaining walls & aprons 15 feet wide, at up & down streams, as per plan.

The rates are fair except for the following:-

Concrete 18.... against 16....
Dry stone pitching 9.4... do 3.12...
If scheduled rates be adopted the saving will be Rs 750.

A lump sum provision of Rs 8,300 has been made for the girders complete, plus Rs 750 for erecting charges, but no details as to the section of the girders & hydraulic information have been furnished.

The plan & estimate have been countersigned by the President Dist. Board & approved in Dist. Board proceedings dated 16th November 1895.

work have been received: it is therefore impossible to say whether the design for the girders is suitable or not, or whether the lump sum - Rs 8,300 - is reasonable.

Attention is drawn to the absence of hydraulic details as prescribed in Professional Circular No. 50 of 12th July 1876.

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12.2.96

Public Works Department.

MEMORANDUM.

In returning the plan and estimate for an iron girder bridge over Yelaru river, received with letter from the Superintending Engineer I Circle, No. 2241 G.D. dated 20th December 1895, the undersigned has the honor to observe, that the Chief Engineer presuming, though the depths of surface and subsoil are not stated, that the foundations will reach

the latter, considers that they are not deep enough for black cotton soil, and is of opinion that they might with advantage be made 9 feet deep, the lower 6 feet being of hydraulic concrete.

2. No detailed drawings for the iron work have been received: it is therefore impossible to say whether the design for the girders is suitable or not, or whether the lump sum Rs. 8,300 is reasonable.

3. Attention is drawn to the absence of hydraulic details as prescribed in professional circular No. 50 of 12th July 1876.

X This is the depth of foundation & subsoil are not stated, it is impossible to say whether the design for the girders is suitable or not, or whether the lump sum - Rs 8,300 - is reasonable.

In the Chief Engineer's letter of the Professional Circular.

To

The Suptg. Engineer I Circle, with 5 enclos.

Cu M1
12.2.96

Cu

No. 2241 G.D.

FROM

A. H. Ganesh
SUPERINTENDING ENGINEER

FIRST CIRCLE.

Enclosures, 5.

TO

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT.

DOWLAISHWERAM, 20. 12. 1895.

1 Site plan.
1 plan of bridge
1 Estimate
1 Report
1 Extract

SIR,

I have the honour to forward herewith plan and estimate amounting to Rs 20400 for constructing an iron girder bridge of 8 ft span over the Yeluru river on road from Cocanada to Samudra at Simson's Lock and to request that you will be good enough to obtain the sanction of Government to the same.

2. Extract from the Proceedings of the St. Board Godavari passed at its meeting held at Rajahmundry on 16th November 1895 is also enclosed.

I have the honour to be

Sir,

Yours most obedtly.

A. H. Ganesh

Sub Engineer 1st Circle

A. H. Ganesh

Sub Engineer 1st Circle

20/12

FROM

A. H. Garrett Esq.
SUPERINTENDING ENGINEER

FIRST CIRCLE,

TO

THE CHIEF ENGINEER

PUBLIC WORKS DEPARTMENT,

DATED

20th

DESPATCHED

31st

December 1895.

RECEIVED

No. 2241 G.D.

ENCLOSURES, 5.

SUBJECT.

Bridge over the Yelam river
on road from Cocanada to
Samalcotha at Simson's lock—
Submits plans and Estimates,
amounting to Rs. 20,400, for
constructing an iron girder—
for favor of sanction.

Inscrutiny

25/12/96

P. W. C. S. P. I. 500-31-7-91

Encls 5 (2 Plans)

Recd: 7.1.96

GODAVARI DISTRICT

Refon. No. 1291/96

BOARD OFFICE
Local & Municipal
Dep. 12 August 1896
CURRENT No. 2166

FROM

V. A. Brodie Esquire
President

District Board, Godavari

TO

The Chief Secretary to Government,
Local and Municipal Department,
Madras.

SIR,

Adverting to the Correspondence ending with

G.O. No. 1377 M and para 23 (3) of my letter No. 23.8.95

Info 4572
10-3-96

2802 D.B. Submitting the District Board's budget for the
23.12.95

current year. I have the honour to submit herewith,
for reference and return, four plans and an estimate
for Rs 22370, duly scrutinized by the Superintending
Engineer, for constructing a bridge over the Yelam river
near the Simson's Lock at Cocanada and to request
that the Government will be pleased to sanction
the project, the same having been passed by the
District Board in its Resolution No. 16
25.7.96
(Vide

(vide Copy enclosed).

I have the honour to be,
Sir,

Your most obedient servant

W. A. Brodie

President
W. A. Brodie
Vice President Dist Board.

2.1/8