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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. NO. 2620 - W

377 6.10.1886

Not to be folded or roughly handled.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From S. H. WYNNE, Esq., President, District Board, Tinnevely, to the Chief Secretary to Government (through the Superintending Engineer), dated Tinnevely, 25th June 1886, No. 45.

As directed in G.O., dated 14th June 1886, Mis. No. 659 L.F., I have the honor to submit, for the sanction of Government, through the Superintending Engineer, the second revised estimate, amounting to Rs. 1,10,000, for constructing a bridge on the Srivaikuntham anicut.

2. A copy of the District Board's resolution sanctioning the estimate has already been forwarded.

No. 248 T.N.

NOTE by the Superintending Engineer, VI Circle, on the second revised estimate and plan for constructing a bridge over the Srivaikuntham anicut across Tambraparni river, Rs. 1,10,000.

The estimate is revised as per suggestions made by Colonel Mead in his report, No. 594 T.N., dated 24th February 1886, when forwarding the first revised estimate of Rs. 1,00,000. It is therefore unnecessary for the undersigned to enter afresh into details.

2. The alterations, &c., suggested are all provided in this revised estimate; the rates are fair and the estimate is recommended for sanction.

3. The undersigned is of opinion that there will be a considerable saving if the iron work be obtained from England, through the Secretary of State, as suggested by Colonel Mead in paragraph 3 of his report.

KODAIKANAL,
7th September 1886.

(Signed) J. PENNYCUICK, Lieut.-Col., R.E.,
Superintending Engineer, VI Circle.

No. 80 E.W.

Forwarded to the Chief Engineer, Public Works Department, for disposal.

(By Order.)

CHEPÁK,
23rd September 1886.

(Signed) J. P. DAVIDSON,
for Offg. Chief Engineer for Irrigation.

ORDER—dated 6th October 1886, No. 2620 W., Public Works.

The revised estimate, amounting to Rs. 1,10,000, for constructing a bridge over the Srivaikuntham anicut, is sanctioned in supersession of the estimate of Rs. 93,000 sanctioned in G.O., No. 846 W., dated 7th April 1885.

2. This sanction has been registered as Local No. 19 W. of 1886-87.

(True Extract.)

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

To the Superintending Engineer, VI Circle.
„ Financial (L.F.) Department, with 21 enclosures.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1886) Madras.
PUBLIC WORKS.

Dated October, 6th.

Recd.

Encl.

G.O., 6th Oct. 1886, No. 2620 W.

OCTOBER.

Bridge over Srivaikuntham
Anicut

Revised estimate, amounting to Rs.
1,10,000, for constructing a —, sanctioned.

7TH APRIL 1886, No. 846 W., PUBLIC WORKS.

2620
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GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers:—

From J. LEE-WARNER, Esq., President, Local Fund Board, Tinnevely, to the
Acting Secretary to the Board of Revenue (through the Chief Engineer
for Irrigation), dated Tinnevely, 9th December 1884, No. 144.

In reference to paragraph 2 of G.O. No. 1764 W., Public Works, dated 18th July
1884, communicated in the proceedings
of the Board of Revenue, No. 7247,
dated the 2nd August following, I have
the honor to submit the alternative esti-
mate, &c., as noted in the margin for the bridge over the Srivaikuntham anicut.

2. This Board, however, adhere to the former estimate submitted by the Local
Fund Engineer with certain modifications indicated in their resolution No. 7, dated
13th November 1884, copy of which is herewith forwarded.

3. Arrangements will be made for the preparation of materials for the piers as
directed in paragraph 1 of the Government order *supra*.

4. After the estimate has obtained the sanction of Government steps will be taken
for realising funds to meet the total cost, minus the sum of Rs. 25,394 already at the
credit of this project.

No. 107 E.W.

Forwarded to the Chief Engineer, Public Works Department.

(Signed) A. S. RUSSELL,
for Chief Engineer for Irrigation.

No. 130 C., Public Works.

Forwarded to the Superintending Engineer, VI Circle, for scrutiny and report.

(By Order.)

CHEPIL,
21st January 1885.

(Signed) C. BOWEN, Major, R.E.,
Deputy Chief Engineer, P.W.D.

From Lieutenant-Colonel H. R. MEAD, R.E., Superintending Engineer, VI Circle,
to the Chief Engineer, Public Works Department, dated Trichinopoly, 11th
February 1885, No. 689 T.N.

With reference to your endorsement No. 130 C, dated 21st January, I have the
honor to point out that there are three
designs for the Tambraparni bridge sent;
they are as follows:—

1st. A design without estimate for
a bridge made of old railway
iron; the cost of this was
estimated at Rs. 62,500.

As this has already been condemned, no further notice need be taken
of it.

2nd. A design and estimate for a Warren type bridge, the transverse girders
being attached to verticals, the transverse girder being crossed by small
longitudinal girders and the whole covered with corrugated plates on
which is a flooring of asphalt; the estimate for this is Rs. 1,05,000, the
width of roadway between flanges of main girder being 17½ feet. In
G.O. No. 1764, dated 18th July, will be found your note on the design
and the Government order on it.

3rd. Another estimate, similar to the above, but the roadway made 3 inches
wider. The flooring to be of wood with diagonal planking over it; this
estimate amounts to Rs. 95,000. The dimensions of the iron in the
girders and cross girders is the same as in No. 2.

4th. A plan and estimate for the bridge. Iron plate girders with cross girders
placed above them overhanging on each side the roadway is 19 feet in
width. The estimate amounts to Rs. 1,06,700.

It is of course impossible to compare these estimates as regards cost, especially
as the rates for iron vary in No. 2; it is entered as Rs. 160 a ton. In No. 3 as
Rs. 145 a ton and in No. 4 it is from Rs. 140 to 170 a ton, or on an average Rs. 155
a ton.

The Local Fund Board wish that No. 3 estimate should be sanctioned and
object to No. 4 (which was prepared as ordered in G.O. No. 1764 W., of 18th July),
as they consider it not advisable to raise the approaches which are already high.

I must say I agree with the Local Fund Board and consider it is advisable that
the roadway should be kept as low as possible; the high floods that the river is sub-
jected to necessitate the bottom of the girder being at least 17½ feet above the crest
of the anicut. I therefore would urge that whatever type of bridge is adopted that the
roadway should rest on cross girders resting on the lower chord or web of the girder,
and, as this is the case, I cannot recommend No. 4 being adopted.

With regard to No. 3, I have already given my opinion; it is the same as No. 2
on which I have already written a note (see papers in G.O. No. 1764 W., of 18th July
1884). No. 3 is similar, except with a slightly wide roadway 18 feet and a wooden
spans required a good plate girder bridge with 17½ feet, or 18 feet roadway as desired
by the Local Fund Board could be designed, and that it would be better and probably
cheaper than the design No. 3 as designed by Mr. Lowry.

From the President, Local Fund Board, Tinnevely, dated 17th February 1885, No. 64.

Note by the Chief Engineer, Public Works Department.

In G.O. No. 1764 W., dated 18th July 1884, the Local Fund Board, Tinnevely,
was called upon to submit an alternative estimate for constructing a bridge over
the Tambraparni river at the Srivaikuntham anicut, providing for plate girders,
continuous over three bays, and for an overhanging road with flooring of timber.

26/90
3

2. The Local Fund Board now submit three estimates—

1st. For Warren girders, with plate cross girders, and small longitudinal
girders, bearing corrugated plates covered with asphalt and concrete;—
width of roadway 17½ feet, and estimated cost Rs. 1,05,000.

This estimate is the same as that originally prepared and submitted,
except that the objectionable girders of old rails first proposed have
been rejected.

2nd. Of the same general design as above, but the roadway to be 18 feet
wide, and the flooring to be of wood, as recommended by the Superin-
tending Engineer, VI Circle. Estimated cost Rs. 93,000.

3rd. The alternative estimate called for in the Government order above
quoted, providing for plate girders and cross girders resting on top
booms with an overhanging planked roadway 19 feet wide. Estimated
cost Rs. 1,06,700.

3. The Local Fund Board object to this last design on the ground that it is not
advisable to raise the approaches further, and the Superintending Engineer concurs in
that view.

4. The Local Fund Board recommend for sanction the second estimate, amount-
ing to Rs. 93,000; but the Superintending Engineer still adheres to his opinion that
plate girders, with cross girders attached to bottom booms, so as to obviate additional
raising of approaches, would be better and probably cheaper.

5. The Superintending Engineer's anticipation that plate main girders, with cross
girders resting on bottom booms, would be cheaper than the Local Fund Engineer's
design for a Warren girder bridge, is apparently erroneous, if the latter's figures be
accepted; inasmuch as the Local Fund Engineer's alternative estimate, providing for
continuous plate girders, with cross girders resting on top booms, is already more
expensive than the estimate for Warren girders; and it follows that the plate girders,
with cross girders resting on bottom booms, will also be more expensive.

6. The Chief Engineer is by no means satisfied as to the accuracy of the third
estimate; but, all points considered, he thinks it best to accept the Local Fund Board's
recommendation in favor of the second estimate, amounting to Rs. 93,000, and provid-
ing for Warren girders with an 18 feet roadway and wooden floor.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Chief Engineer, Public Works Department.

21st March 1885.

ORDER—dated 7th April 1885, No. 846 W., Public Works.

The Government accept the opinion of the Chief Engineer, Public Works Depart-
ment, and sanction the estimate, amounting to Rs. 93,000, for constructing a bridge
over the Srivaikuntham anicut.

2. This sanction has been registered as Local No. 1 W. of 1885-86.

(True Extract)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Board of Revenue, with twenty-eight enclosures.
" Superintending Engineer, VI Circle.
" Chief Engineer for Irrigation.
" Financial Department.

Exd. A. Grubert.
Spare Copies

BUILDINGS AND ROADS,
CIVIL WORKS.

Sect. of 1885 Madras.

PUBLIC WORKS.

Dated April 7th.

G.O., 7th April 1885, No. 846 W.

APRIL.

Bridge over the Srivaikuntham
Anicut

Estimate for - sanctioned.

7498/86

Financial Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

Letter from the President, District Board, Trivandrum dated 6 May 1886 No. 34.

Advocating to G.O. dated 20 March 1886 No. 371 L.F. Ins. I have the honour to submit for the sanction of Government a second revised estimate for the bridge at Srivaikuntham prepared according to the suggestion of the Superintending Engineer.

2. The present revision raises the amount of the estimate from Rs 100,000 to Rs 110,000.

3. The District Board have approved of the revision and have sanctioned the estimate in their Resolution No. 8 dated 28 April 1886, copy of which together with the papers marginally noted is herewith submitted.

4. As pointed out in para 2 of the G.O. in reply the iron work may be obtained from England through the Secretary of State for India, and I request that you will be good enough to

Original estimate
with calculations } 6.
Revised estimate } 1
Specification } 1
Report } 1
2. revised with
report } 2
Plans } 7
Tracing of preliminary
design } 1
19

some the Government for entering into necessary arrangements for the same.

If the materials are delivered at Tutuicui they can be easily transported thence to Suva by the same.

Order thereon of 14 June 1886 No 659 27 (Nis.)

The revised estimate received with the above letter will be returned to the President for resubmission through the Superintending Engineer, as required in para 8 of G.O. dated 15 December 1882 No 3211 W.P.W. Department, communicated with the Proceedings of the Board of Revenue dated 15 January 1883 No 88.

(True Extract)

(Sd) E. S. Laffan

Under Secretary.

The President, District Board, Timineally with plans and Estimates.

(True Copy)

(Sd) E. S. Laffan

Under Secretary.

Pay C No 7685
+ 7498

Recd: 4.10.86

12/10/86

No 15

Trincomalee District Board Office
25 June 1886.

2/2/9

From,

S. B. Wynne Wynne
President District Board
Trincomalee

To, The Chief Secretary
to Government

Fort Saint George
Through the Superintendent Engineer

As directed in G.O. dated 14 June 1886, No 657 L.F. (Dis), I have the honour to submit for the sanction of Government, through the Superintendent Engineer, the second revised estimate amounting to Rs 11,000 for constructing a bridge on the Trincomalee River.

2. A copy of the District Board's Resolution sanctioning the estimate has already been forwarded.

Yours faithfully
S. B. Wynne
President.

Compts
S.B.

V. Rajwasthala
Local Fund Asstt.

no 248 T.N.

Note by the Sup^r Engineer

to the bridge on the second revised estimate and plan for constructing a bridge over the Srivai kuntham ariant across Lambrakuni River Rs 1,10,000

The estimate is revised as per suggestions made by Colonel Mead in his report no 594 T.N. dated 24th February 1886 when forwarding the first revised estimate of Rs 1,00,000. It is therefore unnecessary for the undersigned to enter afresh into details.

2. The alterations & suggestions are all provided in this revised

- Encls: 14.
- 7. Plans.
 - 1. Drawing
 - 1. off & the
 - 1. do. of the
 - 1. do. Report
 - 1. do. specifications
 - 1. Revised & the
 - 1. President's letter
- no 45
25.6.86

MEMORANDUM.

Requested for reference the undermentioned papers:—

The original estimate forwarded to the Chief Secretary to Govt. Srivai kuntham ariant dated 19th May 1886.

Also Mr. P. B. no 659 (T.N.) dated 27th May 1886.

Chief Engineer

Public Works Department

25th May 1886

The Chief Secy to Govt.

25th May 1886

77-805

Forwarded to the Chief Engr.
P.W.D. for disposal.

For Offg. Chief Engr.
for irrigation

Chapin
23 Sept 1886

1876 W of 18. 7. 84
1876 W of 7. 4. 85
1887 C of 11. 3. 86
1886 W of 7. 4. 86



From
The Sup^r Engineer
to circle.
R 16 7/11

To The Chief Engineer
for Irrig.

No 248 7/11
Dated 7th 3 September 1886
Recd

Enclosed
Retained
1886

Bridge over the Sri-
vaikuntham Aicah:-

Note on the 2d Revised
Estimate for work -

Baildais Road
Chil Wako
PUBLIC WORKS DEPARTMENT.

No 2020 W

PROCEEDINGS OF THE MADRAS GOVERNMENT
Under date October 6. 1886
Read the following

Letter from the President, District Board, Tinnevely, H. & Co. No. 1454/25 June 1886.
Report from the Suptg. Engineer, T. Circle, H. & Co. No. 248 J. H. 4/7 September 1886.
Endorsement by the Chief Engr. for Irrigation, H. & Co. No. 806 W of 23 September 1886.

The revised estimate amounting
to Rs. 1,10,000, for constructing a bridge
over the Sri vaikuntham Aicah, is
sanctioned in supersession of the
estimate of Rs. 93,000 sanctioned in
G.O. No. 846 W dated 7th April 1885.

2. This sanction has been regis-
tered as Local No. 114 W of 1886-87

1/10/86

1/10/86

Dec 13/10
To The Suptg. Engr. T. Circle
Financial Department (L. F.) with
21 enclos.
(To The Chief Engr. for favor of counter-initials)

Cu

1/10

Sept off 1886) Madras

2/10/86

GO of Oct 6. 1886. R. 26/11/86

Bridge over Spentakuni
than Amich

Revised estimate
only Rs. 10,000/-
full estimate as
sanctioned Rs.

54

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