

9TH MAY 1884, No. 1033, FINANCIAL.

GOVERNMENT OF MADRAS.

FINANCIAL DEPARTMENT.

READ—the following papers:—

From E. C. JOHNSON, Esq., President of the Local Fund Board, Vizagapatam, to the Chief Engineer, Public Works department, dated Vizagapatam, 9th April 1884, No. 235.

In forwarding, herewith, plans, estimates, &c., prepared by Mr. Walch, officiating Superintending Engineer, I Circle, for constructing an iron pontoon bridge across the backwater at Vizagapatam, I have the honor to request that you will be so good as to obtain the sanction of Government for the estimate as early as possible.

Enclosures 15.

1. Memorandum.
 2. Specification.
 3. Estimate.
 4. Survey plans of site showing proposed position of bridge in 3 sheets.
 5. Eight drawings (on tracing linen), Nos. 1 to 8.
 6. Copy of Mr. Walch's letter, No. 568-V.Z., dated 20th March 1884.
- Enclosures Nos. 4 and 5 are sent by packet post.

2. As I propose to advertise for tenders in Calcutta, Bombay and Madras for the supply of the heavier iron work as recommended by Mr. Walch, I request that you will be so good as to treat the estimate as confidential, and to take mea-

sures to prevent the rates therein from becoming known to the public.

3. Mr. Walch, you will observe, recommends that the heavy iron work be obtained on contract, and the lighter iron work, with the wood work, be executed departmentally.

NOTE.—The specification is prepared in the form of a notice for tenders.

ENCLOSURE.

From G. T. WALCH, Esq., Officiating Superintending Engineer, I Circle, to the President of the Local Fund Board, Vizagapatam, dated Dowlaishweram, 20th March 1884, No. 568-V.Z.

With reference to previous demi-official correspondence and conversations on the subject of a pontoon bridge for the Vizagapatam backwater crossing, I have the honor now to forward the documents and plans detailed in the enclosed list.

Enclosures 15.

14 as per list attached.
1 list.

2. I would recommend you to get all the heavy iron work from Calcutta or Bombay on contract, but to prepare the wood work and light iron work at Vizagapatam or get it from Dowlaishweram.

3. I would recommend you to first moor the bridge in position and then to decide from trials what shall be the arrangements for the shore ends to provide for varying levels due to tide and freshes. I am confident that this without causing much delay is likely to land you in less expense than the planning and carrying out of elaborate arrangements beforehand from mere paper information; every bridge of the kind seems to me to develop special requirements peculiar to itself.

4. I would here record my indebtedness to the Chief Engineer, North-Western Provinces and Oudh, to the District Engineer, Bari Banki, and to the Superintendent of the Canal Workshops, Rurki, who have supplied most of the plans and information on which the present proposal has been put into shape.

List of plans, &c., sent herewith.

- (1.) Memorandum.
- (2.) Specification.
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- (4.) Survey plan of site showing proposed position of bridge in 3 sheets.
- (5.) Eight drawings (on tracing linen), Nos. 1 to 8.

(Signed) G. T. WALCH,
Offg. Superintending Engineer, I Circle.

Note by the Chief Engineer, Public Works department, on the project for the construction of a pontoon bridge across the Vizagapatam backwater, dated 3rd May 1884.

This project, prepared by the Superintending Engineer, I Circle, is submitted by the President of the Local Fund Board, Vizagapatam.

2. The cost will be approximately Rs. 65,000, exclusive of landing stages, which will probably cost Rs. 2,000 more.

3. The proposed bridge, which extends over 20 pontoons and 19 bays, will be 380 feet long, exclusive of landing stages. The bridge will be so constructed as to allow of its centre, for a length of 40 feet, being moved out of position for the passage of boats, &c. The documents sent up afford full information as to the details of the arrangement. The pontoons, excepting the two in the centre, will be fastened to buoys on both the upper and lower ends, by means of mooring chains; the buoys being secured to anchor stones each 6' x 4' x 3'. Each bay will be spanned by 4 iron girders, 20 feet long and 1½ feet deep. The girders will run parallel to one another, 4 feet apart, and will be fastened to the pontoons by saddles. Wooden joists will be laid perpendicularly across the girders, and to these will be fastened wooden planking, in two layers, to form the roadway. Both sides of the roadway will be guarded by chains supported by iron rods.

4. The construction of the landing stages it is proposed to postpone until the bridge proper has been moored, and its action observed.

The probable "life" of the iron pontoons, under the corroding influence of salt water and climate on the coast, as well as the rigidity of the planked roadway, are elements to be weighed and considered.

As, however, the working plans and other information have been obtained from reliable sources, and are based on existing examples, the Chief Engineer considers that the project, which has been prepared with great care and has been accurately worked out as to details, can be safely recommended for sanction.

(Signed) J. SHAW-STEWART, Col., R.E.,
Chief Engineer, P.W.D.

No. 85-E.

Endorsement on the above.

Referred to the Financial department.

Ootacamund,
5th May 1884.

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

To the Financial department, with papers in original
and estimates in a separate cover.

ORDER—dated 9th May 1884, No. 1033, Financial.

The plans and estimates of the proposed pontoon bridge across the Vizagapatam backwater will be sanctioned and returned to the President, Vizagapatam Municipality.

2. In the budget for 1884-85, Rs. 1,00,000 were provided for this work, credit being taken for a grant from the Local Fund Board of Rs. 50,000 in all which has been duly provided by the circle board in their revised budgets for 1883-84 and estimates for 1884-85.

3. As the total cost of the work is now estimated at Rs. 67,000, it is presumed these figures will need revision, and the point will be noticed in submitting the application for the proposed loan of Rs. 50,000, and the report called for by paragraph 3 of G.O., 4th March 1884, No. 473, Financial.

(True Extract.)

Justin MacIntyre

Chief Secretary.

To the President of the Municipal Commission, Vizagapatam,
with plans and estimates.

" Public Works department.
" Board of Revenue.
" Accountant-General.

Exd. J. Wright.

Wch 4310

Gobt. of (1884) Madras.
FINANCIAL.

12/

P.S.C.

Issued

Recd. 21/5/84.

Encl.

G.O., 9th May 1884, No. 1033.

No. 1337 w of 28th May 1884

MAY.

Local Fund—Bridges.

Sanctioning, with remarks, plans and estimates for constructing a pontoon bridge across the Vizagapatam backwater.

2 copies sent to Mr. Walch

with order

Subm. Acpt. Regtr

9TH MAY 18

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GOVERNMENT OF MADRAS.

FINANCIAL

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(True Extract.)

E. F. WEBSTER,
Chief Secretary.

To the President of the Municipal Commission, Vizagapatam,
with plans and estimates.

„ Public Works department.
„ Board of Revenue.
„ Accountant-General.

Exd. J. Wright.

12-5-13

R. W. W.

Gobt. of (1884) Madras.
FINANCIAL.

No 1337 Wd/28th May/84

Communicated to
the Suptg. Engr: I Circle.

(Signed) J.S.

Issued

Recd.

Encl.

G.O., 9th May 1884, No. 1033.

No 1337 Wd/28th May/84

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Local Fund—Bridges.

Sanctioning, with remarks, plans and estimates
for constructing a pontoon bridge across the Viza-
gapatam backwater.

With order

The S. E. I Circle.

30/5-
20/5-22/5
G. 21-5-84.

Examiner. P. W. Aceto.
with D. H. Dr.
Suttm Deep Right