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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 2914	Press ~~Mis.~~
114-15	
Dated 5 12	1862.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
5th December 1862.*

No. 114. Read the following letter from Lieutenant-Colonel S. O. E. LUDLOW, R. E., Deputy Chief Engineer, Northern Circle, to Colonel W. I. BIRDWOOD, R. E., Secretary to Government, Public Works Department, dated 13th October 1862, No. 420 G/470:—

SIR,

1 Letter No. 691, dated 30th September 1862.
1 Plan

1. Government in their Order No. 1,001, dated 9th May 1862, sanctioned the construction by the District Engineer of two iron bridges of 50 feet span on the High Level or Ellore Canal, in the Godavery District, at an aggregate cost of 9,200 Rupees, and that sum in Order No. 1,093, dated 20th May, was placed at his disposal for expenditure from the Reserve Fund of the current year.

2. The District Engineer now (in his letter No. 691, dated 30th September, which accompanies) proposes that a tender for the construction of these two bridges by Messrs. Knight & Co., Engineers of Calcutta, at a total cost of 10,000 Rupees or 800 in excess of the sanctioned sum should be accepted.

3. Messrs. Knight's plan of their lattice bridge is submitted, and I concur with the District Engineer in thinking that the girders are stronger and superior to those originally designed and sanctioned for adoption.

4. The wing walls of Messrs. Knight's bridge are however rather stunted and not, in my opinion, of sufficient length for such high banks.

5. The plan, moreover, does not exhibit the depth of foundations or give any section of abutments.

6. I estimate the cost of lengthening the wing walls at 1,800 Rupees, which would raise the estimate to 11,600 Rupees or 18 per cent. above the original estimate.

7. But taking into consideration the increased strength of the structure, the saving that will accrue on the item of superintendence, and the fact of the transfer of risk of failure from the Government to the Contractor, I am of opinion that it would be advisable to execute the work by contract at a cost not exceeding 11,600 Rupees.

8. The Executive Engineer will of course when making the contract see that the masonry portions of the structure are of the dimensions necessary for convenience and stability.

9. I request to be favored at an early date with the orders of Government on this proposal.

No. 115. • ORDER THEREON, 5th December 1862, No. 2,914.

The Government approve of the District Engineer, Godavery, contracting with Messrs. Knight & Co., for the erection of the proposed iron bridges across the Ellore Canal at an estimated cost of Rupees 11,600. The difference between this sum and the amount of the original estimate will be met from the Reserve Fund from which source the grant already made was authorized.

(Signed.) W. I. BIRDWOOD, Colonel, R. E.,
Secretary to Government.

N. C. Office 13th October 1862

C 170
N^o 420

From,

Lieutenant Colonel J. O. E. Ludlow R. E.

Deputy Chief Engineer N. C.

To,

Colonel W. S. Birdwood R. E.

Secretary to Government, P. W. D.

3.

Sir,

Government in their order N^o 1001 dated 9th May 1862, sanctioned the construction by the District Engineer of 2 Iron Bridges of 50 feet span on the High level or Ellore Canal in the Godavery District at an aggregate cost of 9,200 Rupees and that sum in order N^o 1093 dated 20th May was placed at his disposal for expenditure from the reserve fund of the Current year.

2.

The District Engineer now (in his letter N^o 691 dated 30th September which accompanies) proposes that a tender for the construction of these 2 Bridges by Mess^{rs} Knight & Co^s Engineers of Calcutta at a total cost of

of 10,000 Rupees or 800 in excess of the sanctioned sum should be accepted.

3. Messrs Knight's plan of their Lattice Bridge is submitted and I concur with the District Engineer in thinking that the Girders are stronger and superior to those originally designed and sanctioned for adoption.

4. The wing walls of Messrs Knight's Bridge are however rather stunted and not in my opinion of sufficient length for such high Banks.

5. The Plan moreover does not exhibit the depth of foundations or give any section of abutments.

6. I estimate the cost of lengthening the wing walls at 1,800 Rupees which would raise the Estimate to 11,600 Rupees or 18 per cent above the original Estimate.

7. But taking into consideration the increased strength of the structure and the saving that will accrue on the item of Superintendence, and the fact of the transfer of risk of Failure from the Government

Government to the Contractor, I am of opinion that it would be advisable to execute the work by contract at a cost not exceeding 11,600 Rupees.

8. The Executive Engineer will of course when making the contract see that the masonry portions of the structure are of the dimensions necessary for convenience and stability.

9. I request to be favored at an early date with the orders of Government on this proposal.

I have the honor to be
Sir,

N. C. Office
13th October 1862.

Your Most Obedient Servant

Lt Col R. E.
J. J. Muddam
Chief Engineer N. C.

Colonel H. S. Birdwood P. E.
Secretary to Government P. W. D.

