

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public Works* **DEPARTMENT.**

G.O. No.	Press
	Mis.
Dated	18 .

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
8th January 1864.*

No. 147. Read the following letter from Captain O. W. S. CHAMBERS, R. E., Superintending Engineer, 1st Division, to Colonel C. A. ORR, R. E., Secretary to Government, Department Public Works, dated Waltair, 16th December 1863, No. 1,953 :—

SIR,

1. With reference to my letter* as per margin, I do myself the honor of reporting to Government that in my opinion it is no use attempting to have any further dealings with Mr. Knight of Calcutta, the iron bridge contractor, and that if the Cocanada iron lattice bridge is to be built at all within any reasonable period, it must be built by this Department.

2 Plans.
1 Original letter.
1 Estimate.
1 Specification.
* No. 1,760 of 25th November 1863.

2. Enclosed is an original letter from Major Stoddard proposing to make up in the Dowlaishwaram Workshop the bridge in question, for which 64,000 Rupees have been sanctioned for expenditure in the present official year.

3. Enclosed are also plans, estimate and specification of the bridge, which in no wise differ from those already sanctioned to be worked up to by Mr. Knight, had he contracted for the work.

4. Major Stoddard is confident that he will be able to build the bridge cheaper than Mr. Knight would, and that even charging the very heavy percentage on the work which the support of the Establishment of the Workshop at Dowlaishwaram demands.

5. I do myself the honor of requesting the permission of Government to this undertaking: an order by telegraph to Major Stoddard to go on with the work would save time, as I am about leaving for Ganjam.

6. Later I shall report to Government whether any portion of the 64,000 Rupees sanctioned for the Cocanada bridge for the present year is available for other works.

No. 148. ORDER THEREON, 8th January 1864, No. 71.

1. Under the circumstances stated, the Governor in Council approves of the Cocanada iron lattice bridge being made up under the orders of Major Stoddard at the Dowlaishwaram Workshop.

2. The Government will await the receipt of the report promised in paragraph 6.
(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 1st Division.
„ Controller and Auditor of Public Works Accounts.

Exd. S. T. Augustin.

No. 2 of 1863/64

Estimate of the probable expenses of Constructing an Iron
Lattice Girder Bridge at Locanada in Godavary District.

3

Measurement				Particulars of Work	Price Per	Amount	Total
Length	Breadth	Height	or depth				
4.6				inside diameter 18 Wells 4 feet deep brick in clay filled with gravel	25	1150	1150
3				inside diameter 22 do. do. do.	20	600	600
50	5 1/2	20 1/2		559 1/3 Abutments			
101	4 1/2	20 1/2		10309 Wing walls.			
101	3 1/4	4		1560 do.			
11	5	18		990 Buttresses.			
8	2	4 1/2		72 Pillars			
90	1 1/2	4		540 Parapet Walls			
41	2	4		328 Walls over abutments			
				19390 2/3			
				Cy. 718.4 2/3			
				12. Deduct Cut Stone Quoins			
				706.4 2/3 Stone in Chumam —	48	Cy. 3177	12.5
				12. Cy. Cut Stone Quoins			
				to abutments —	12	do 144	
				260 Sqr Yds. Dressing rough Stone			
				to abutments & Wing walls.	4	Sqr 65	
48	4			192 Walls over abutments			
220	5			11 Parapet walls			
				1292 Plastering with 2 Coats of			
				Chumam —	3 12	Sqr 48	73
				Cut Stone Coping to Parapet			
				walls. —		100	
				Excavating foundation —		500	
				Carried forward —		4925.38	

27. 9. 2. 2. 2.
250. 10. 3

Brought forward 4925 3 8
Temporary Bunches 500 . .
Baling 1500 . .
Making road approaches 500 . .
Graveling road way of approaches } " 12 " Cr. 625 . .
Contingencies 8050 3 8
80912 1 8860 .

Iron Work for one Bay

7398 1/4" sheet iron
9996 3 x 1/2" Flat iron for lattice
310 1" square iron for stanchions
5989 3 x 1/2" Angle iron
723 5/8" round iron for Rivets
2240 1 1/8" do. for tie rods
224 1/2" do. for rail
948 7/8" do. for screw bolts
551 nuts to bolts
1188 2 x 1/2" Flat iron for hoops

32514 wrought iron 1 6 lb 3048 3 .
643 screws 1 6 each 60 4 6
10 Files 1 10 8 16 10 8
25 Lamp oil 3 " "
387 Purrah of charcoal 4 6 Purrah 108 13 6
100 Country wood Bangalore 50 " "
200 Bamboos 5 " "
50 Coir ropes 1 3 3
Smiths hire 600 " "
Vicemans hire 350 " "
Cpl 307-6 Teak wood 1 8 cpl 461 4 .
13 Sawyers hire 1 5 4 100 17 54

Carried forward 4721 12 3 8860

Brought forward 4721 12 3 8860 .
Carpenters hire 83 .
For carrying the same to Cocanada } 100 .
Cooly hire for fitting 800 150 .
Batta to workmen for going to Cocanada } 150 .
50 Europe Steel 10 lb 31 4 .
5236 . 3

For 6 Bays 5236 . 3 Bay 31416 1 6

60480 15 Cast iron screw Piles
Tare 27 36 ft long each 112 lb } 200 . Tare 5200 .
per foot

Cleaning Castings 675 .
37491 1 6

Lundries 3748 14 6
41240 . .

Workshop Superintendence 35 . 14430 . .
53670 . .

Total Papers 64530 . .

Executive Engineer's Office
Dowlaiswaram
7 December 1863

[Signature]
Executive Engineer

Ord. Chamberlaint P. E.
Supr Engineer 1/1/70

Registered

Superintending Engineer
 Office 1st D^o, Calcutta.
 17th 1953. 16th December 1863.
 From Captain Col. S. Chambers R.E.
 Superintending Engineer
 To Colonel Charles A. Orr R.E.
 Secretary to Government
 Madras.

Encls-5
 2 Plans
 1 Arch. letter.
 1 Estimate.
 1 Specification.

+ 17th 1960 of
 25th Nov^r 1863.

Sir,
 With reference to my letter as
 per margin, I do myself the honor
 of reporting to Government that in
 my opinion it is no use attempting
 to have any further dealings with
 the Knight of Calcutta, the Iron-
 bridge Contractor, and, that if
 the Cocanada Iron Lattice Bridge
 is to be built at all within any
 reasonable period, it must be
 built by this Department.
 2. Enclosed is an original let-
 ter from Major Stoddard proposing
 to

dated 7th December 1863
 P. No. 35490/64
 through Executive Engineer
 Mysore District
 to the Superintending Engineer
 1st Division
 dated 7th December
 Received 1863.
 Estimate of the probable
 expense of constructing an
 iron lattice girder bridge
 at Cocanada in Mysore
 District amounting to
 Rs 64,530 -

to make up in the Dowlaiswerrum Workshop, the Bridge in question, for which 64,000 Rs. have been sanctioned for expenditure in the present Official year.

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I have the honor to be
Sir,

Yours most Obedt. Servt.

Ob. Chamber / Capt. R. E.

Superintending Engineer D. E.

29.3.05

Feb 18 63 82 11/4
Geo. of Leg 185 496

Mr. W. H. C. Engineer
in Division

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