

(1) Number of pages 12(2) Date of repair 1-1-2

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.**Government of Madras.***Public Works* **DEPARTMENT.**G.O. No. 134Press
Mis.272-273Dated 1521-1866.**Not to be folded or roughly handled**

*Proceedings of the Madras Government, Public Works Department,
15th January 1864.*

No. 272. Read the following letter from Lieutenant-Colonel G. W. WALKER, R. E.,
Superintending Engineer, 7th Division, to Colonel C. A. ORR, R. E., Secretary to Go-
vernment, Department Public Works, dated Coonoor, 31st December 1863, No. 279 :—

SIR,

I have the honor to forward the Plan and Estimate of the Cuddumbella bridge, called for in
your Memorandum No. 104 of 22nd December, without wait-
ing for that of the Charmady bridge not yet received from

Enclosures 2.

Canara, but regarding which Lieutenant Filgate's attention has been called to Government Order
No. 2,419 of 25th August. The amount of the Estimate is Rupees 6,139, which I request may
be allotted from the Reserve of the current year as promised in paragraph 2 of the above Order
depending on which preparations for the work have been some time in hand.

No. 273. ORDER THEREON, 15th January 1864, No. 134.

The Estimate of Rupees 6,139 submitted with this letter is sanctioned from the Reserve
Fund.

(True Extract.)

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

To the Superintending Engineer, 7th Division.

„ Controller and Auditor of Public Works Accounts.

„ Accountant General.

Exd. S. T. Augustin.

18.16.63

in Works

Detailed Estimate of 1863/64
South Canada

Communications 32

Work Constructing a Timber platform Bridge of 4 spans over the
Caddamabella River on the Mangarabad Road to replace a
masonry structure now in ruins

Particulars of work	f	M	B	L	Cubics
Masonry					
Rebuilding Pier	2	22½	5½	18	4100½
Ditto Cutwaters	4	13	5½	1½	425½
Ditto Centre Pier	1	9½	4½	18	773½
Ditto ditto (filling) between old and new portion	2	5	5	1½	75
Ditto ditto ditto	2	1½	2½	18	125½
Cops to Cutwaters	4	1½	4½	3	73½
Ditto to Centre Pier	2	2½	10	9½	466½
Renewing abutments	2	22½	5½	25	6257½
	1	22½	2½	2½	1306½
	1	22½	2½	9	539½
Ditto Wing walls	1	22½	2½	3½	212½
	1	22½	2½	9½	577½
Ditto Parapets		3	1	74½	223½

Total Cubic feet 15157½

Deduct
For cement filling to Cutwaters 696
Columns of abutments 318½

1014½

Total Estimate in Cubic feet 14142½

Timber					
Grider Beams	24	12"	8"	34	544
Shingles	12	12"	8"	10½	82
Ditto	18	12"	8"	16½	195
Sheds	48	8"	8"	10	213½
Joists	48	4½"	3"	17	76½
Ditto	24	4½"	3"	23	51½
Posts	48	4"	3"	4"	16
Shuts for ditto	48	4"	3"	4½	18
Crane Rail		3"	42"	280	23½
Rails		3	2"	560	23½

Waiting 175¼

Total Cubic feet 1420

Planting 1½" 17 144 300

Postage 61

Total Cubic feet 361

Iron Bolts with nuts and washers 48 1" 11"

See Works

Communications

Abstract Estimate of 1863/64
South Canara

Work Constructing a Timber Platform Bridge of 4 spans over the Cuddumbilla River on the Mangarabad road to replace a masonry structure now in ruins

Contents	Items	M. Per	Rate	Amount
10142 ⁴⁸	Cubic feet of stone in Channarayana	100	19	2687 1
696	Ditto but granite in ditto	1	1	696
4925	Plastering in Channarayana	100	1	49 4
1420	Cubic feet of wrought ironwork	6 ft	11	1509 4
361	2" of 8" Planking	15	1	477 13
48	Iron Bolts	Each	1	48
	Superintendence and sundries			548 10
	Removing old masonry			125
Total of Estimate Rupees				6139

Postoor Range Office,
South Canara,
Postoor 4th November
1863

Wm. J. F. Galt Lieut. Col.
Asst. Engineer
Canara
G. Lee Morris
Asst. Collector
Canara

Specification

50

- The Bridge is in total ruins, with the exception of the centre pier, and the foundations, only, of the 2 ruined piers and of the abutments being, as far as can be ascertained, sound, it will be necessary to build them up entirely as per plan.
- The centre pier is still standing, its present height being 13 ft, and in order to leave a clear ^{space} ~~width~~ of 35 ft between the highest water level and the lowest wood work it will be necessary to raise the pier 9 1/2 feet. This pier is 10 ft thick and 21 ft long but as these dimensions are far more than required to support a timber superstructure such as is now proposed to be erected a pier of the same proportions as the other two is to be built on the old pier and the intervening space between the old and new portions is to be built up at an angle of 45 degrees.
- The other two piers to be 18' long and 6' wide at the base and to be built with a batter of 1/2 an inch to a foot.
- The abutments to be 19 feet long between the cutwaters, this additional width is given in order to take advantage of the old foundations for the wing walls 7 feet wide at the base with a batter of 1/2 an inch to a foot in front, and one inch to a foot in rear.
- The cutwaters to be 13 ft in height up to the cap and to be faced with cut granite. The rate charged last year was Rs 4⁰⁰ per foot but as there are some of the stones in the bed of the river I hope to build up the whole at 1 Rupee per foot.
- The superstructure to be of the best junglewood consisting of platforms, supported by girders, sleepers, and struts, embedded in masonry. The struts to be jointed to the girders and secured with stout iron bolts with washers and screws. The rate allowed for timber in the estimate is slightly higher than that charged in the same locality last year, this is owing to Government having raised the duty on timber from 6 annas to 1 Rupee per cord.
- The stream is rapid and brings down trees.

Postoor Range Office
South Canara
Postoor 4th November
1863

Wm. J. F. Galt Lieut. Col.
Asst. Engineer
Canara

W. Wallace Lieut. Col. R.E.
Superintending Engineer

Captain Edgcomb wants
 a plan of a bridge. That he
 may have it lithographed &
 examine the students in
 estimating. Please
 look one up & send it
 to me. M-

Enclosed in a letter from the
 City Engineer. Dec 19/99 of 3/4

December 1899

New York Commission

Smith & Lawrence

Sept 2/1900

West (Pronunciation)

Washington & New York

Refers 6/13/99-

No. 134

The Estimate of

Papers 6139 submitted with
this letter is sanctioned from
the reserve fund.

Chester
15th Jan^y 1861

To the Supg. Eng^r & J^r Sec^y
-- Controller & Auditor of
-- Accountant General &

X^o 87

Deff. 15th Jan^y

33

4

Pro 25th August 1863.
518-519

PTV 1864 Deputy
Secy of Govt for
from
The Superintending Engineer
of the Division

To the Secretary to Government
D. D.

Dated 3rd December 1863

Received 4th Jan 1864

E 2 Plan

No 272-273

Forwards Plan and Estimate
of Cuddumilla Bridge
amounting to Rs 6139-11-4 and
requests to sanction from the
Reserve Fund of the current
year

No 272-273

No 134-15th January

C. 8th Jan 1864 Or. 12th

W. A. P. D.