

(1) Number of pages 18
(2) Date of repair 17. 2. 57
(3) Initials of the Referencer lma

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P. G. DEPARTMENT

G.O. No.	<u>295-W</u>	Press.
B.P. No.		Mis.
Dated	<u>7-2-1885</u>	<u>198</u>

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following paper:—

Proceedings of the Board of Revenue, dated 23rd January 1885, Mis. No. 627.

Read—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Secretary to the Board of Revenue, dated Ootacamund, 31st December 1884, No. 2 C.

At the request of the President, Local Fund Board, Malabar, I have the honor to transmit, herewith, for sanction, three estimates, for replacing existing timber platform bridges, which are stated to be in a dilapidated condition and in need of immediate renewal:—

Plans.	Calculation statement.	
Estimates.	Statement showing	
Reports.	sections and weights.	
Specifications.		

I. The Edukad bridge, which is situated on coast road No. 1. The whole of the masonry work is stated to be in sound condition, so that it is only the superstructure that requires renewal, and it is proposed to replace the existing platform by a composite structure of rolled iron beams and cross planking. There will be as before three spans of 23' 5" each, with a 14-foot roadway and wooden hand rails, and the estimate amounts to Rs. 2,710.

II. The Karampanikal bridge, which is also situated on coast road No. 1. In this case both the masonry abutments and the superstructure are stated to require renewal, and it is proposed to replace the existing platform by one consisting of Whipple-Murphy single trellis pony trusses of 34-foot span each, carrying a 14-foot roadway platform of wrought-iron rolled beams and wooden planking. The estimate, which amounts to Rs. 2,860, includes the construction of a small temporary bridge on a diversion to be used while the existing bridge is being replaced by the new one.

III. The Melena river bridge, in South Wynad, on road No. 31 at 2 miles and 6 furlongs from Vayitri. The clear width of waterway in this case is 71 feet, and it is proposed to replace the existing wooden structure, now in a ruinous state, by rolled iron girders and a wooden platform on iron pile piers. The clear width of roadway between hand rails is to be 9 feet, and the bridge will consist of three spans—one of 90 feet and two of 20 feet. The amount of estimate is Rs. 5,840.

2. The estimates, which have been prepared with much care, have only received some trifling corrections in this office. They are all considered to be of an emergent nature, and very early sanction is requested, so that the works may be carried out in the present dry season.

Resolution—dated 23rd January 1885, Mis. No. 627.

The estimates, amounting to Rs. 5,570, for the marginally noted works are sanctioned, and the

Constructing Edukad bridge on coast road No. 1	Rs. 2,710	estimate of Rs. 5,840,
Do. Karampanikal bridge on do.	2,860	for reconstructing
		the Melena bridge,
		in South Wynad, on
		road No. 31, is sub-
		mitted for the sanc-
		tion of Government.
Total	5,570	

(True Extract.)

(Signed) C. F. MACCARTHY,
Acting Sub-Secretary.

7TH FEBRUARY 1885, No. 295 W., Public Works.

Order—dated 7th February 1885, No. 295 W., Public Works.

The estimate, amounting to Rs. 5,840, for reconstructing the M. road No. 51 in South Wynaad, is sanctioned.

2. This sanction has been registered as Local No. 55 W. of 1884-85.

(True Extract.)

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

To the Board of Revenue, with seven enclosures.
" Superintending Engineer, IV Circle.
" Financial Department.

Ed. E. Fernandez.
Sp. Secy.

295

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 1855 Madras.

PUBLIC WORKS.

Dated February, 7th.

Recd.

Encl.

G.O., 7th Feb. 1885, No. 295 W.

FEBRUARY.

Melena Bridge, on Road No. 31
in South Wynaad

Estimate for reconstructing the —, sanc-
tioned.

T.

The sheet of the load the longitudinal
timber side girder will carry
taking a guide to the weight of girder
in Richardson & Laidlaw's Catalogue of
rolled beams. The load has been calculated
for safety to the two feet forward

295

3000

or calculate at the strain.

295

The dimensions of the

timber side girder

for cross girders - $a = 4 \times \frac{1}{2} = 2 \frac{1}{2}$

$d = 10 \frac{1}{2}$ inches $b = 11 \times \frac{1}{2} = 5 \frac{1}{2}$

$N = \frac{3000 \times 21}{135} = 466 \frac{2}{3}$ tons

$= \frac{3000 \times 21}{135} = 466 \frac{2}{3}$ tons

for longitudinal girder

$a = 10 \frac{1}{2}$ inches $b = 11 \times \frac{1}{2} = 5 \frac{1}{2}$

$N = \frac{3000 \times 21}{135} = 466 \frac{2}{3}$ tons

Safe load = $3 \times 150 = 450$ tons

Weight of girder 1500 lbs

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Weight of girder 1500 lbs

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Weight of girder 1500 lbs

Safe load = $3 \times 150 = 450$ tons

Public Works Department, 188-85.

3000

Current No. 289

Letter No. 227

Dated the 22nd January 1885

From the Board of Public Works

295 W

NOTE OF REMARKS.

The accompanying plan

and section provide for

the reconstruction of the

Melena Bridge on road

No. 31 in South Wynaad

The estimate amounts

to Rs. 5840.

The bridge is to be of

three spans - the center

span to be 30 1/2 feet and the

side spans, each, 20 1/2 feet

There are to be four piers

- two land and two mid

water piers. Each of the

land piers is to be formed

of a pair of wrought iron

beams each 12 1/2 ft long and

4 1/2 ft high with cast iron cross

beams 12 ft apart and

braced at top with wrought

iron rolled cross girder,

and lower, by diagonal
wrought iron bracing rods,
1 1/2" dia. The endwater
differs from the land
pier only in length of pile.
The endwater pile is 25 ft.
long.

The bracing cross girders
are to bear four longitudinal
wrought iron
rolled girders on which
is to rest the wooden
planking, 2 1/2" thick.

A wooden rail is to run
on each side of the road-
way, the distance be-
tween the rails being
9 feet. Dry stone, rubble,
abutments are to be built
about the land piers
to protect and support
the ends of the approaches.
Subject to approval,
the plans and estimate
have been well prepared,
and, if the widths of approach
are correct, are equal
to the requirements of
the case.

30 3 Jan 1885

N^o 2
C
Superintending Engineer's office
Camp Cotacamund 31st Dec 1884

From

BOARD'S GEN. REG. N^o 94 OF 1885

The Superintending Engineer
11th Circle

To

The Secretary to the Board of Revenue
Madras.

Enclosure

- 7 Plans
- 3 Estimates
- 3 Reports
- 10 Specifications
- 1 Calculatⁿ
- 1 Statement
- showing sections
- weights.

(Plans & 1st Report
in separate cover)

Sir

At the request of the President
Local Fund Board Malabar, I have
the honor to transmit herewith for
sanction these estimates for replacing
existing timber platform bridges which
are stated to be in a dilapidated con-
dition and in need of immediate re-
newal.

I The Bedakad Bridge, which
is situated on Coast Road N^o 1.
The whole of the masonry work is stated
to be in sound condition, so that it
is only the superstructure that requires
renewal and it is proposed to replace
the existing platform by a composite
structure.

Structure of rolled iron beams and
erect planking. There will be as before
3 spans of 25' 5" each, with a 16 feet
roadway, and wooden hand rails, and
the estimate amounts to Rs. 2,710.

II The Karampankal Bridge,
which is also situated on Coast Road
No. 1. In this case both the masonry
abutments and the superstructure
are stated to require renewal, and it
is proposed to replace the existing plat-
form by one consisting of Whipple-
Murphy single Trussis Pony Trusses, of
36 feet span each, carrying a 16 feet
roadway platform of wrought iron
rolled beams and wooden planking.

The estimate, which amounts to
Rs. 2,860, includes the construction of a
small temporary bridge on a diversion
to be used while the existing bridge
is being replaced by the new one.

III The Moliva River Bridge
in South Wignaad on Road No. 31 at
2 miles and 6 furlongs from Vytherry.
The

The clear width of waterway in this
case is 71 feet; and it is proposed to re-
place the existing wooden structure,
now in a ruinous state, by rolled
iron girders and a wooden platform
on iron pile piers. The clear width
of roadway between hand rails is to be
9 feet, and the bridge will consist of 3
spans — one of 30½ feet and 2 of 20½ feet.
The amount of estimate is Rs. 5,840.

The estimates, which have been
prepared with much care have only
received some trifling corrections in
this office. They are all considered
to be of an emergent nature, and very
early sanction is requested so that the
works may be carried out in the present
dry season.

I have the honor to be
Sir

your most obedient Servant

L. Beatty • Colonel R.E.
Superintending Engineer R.E. Circle

9/6

From
The Superintending Engineer
4th Circle;

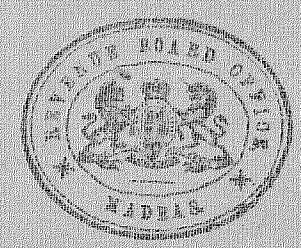
N° 2
C

Dated 31st December 1884
Despatch 3rd January 1885.
Vol 3
Cap 17.
Enclosure
To Mr 11/Plaza.

Detail of 3 Bridges
in Malabar District.

Transmits for the
from three estimates for
replacing the — with
rolled iron girders and
wooden planking.

94
17-9-85



6/295

Proceedings of the Board of Revenue.

Dated 23rd January 1885.

No. 627 Miscellaneous.

Read letter from the Superintending Engineer 4th Circle,
dated 31st December 1884, No. 2.

Resolution.

The estimates amounting to Rs 570
for the marginally noted
works are sanctioned and
the estimate of Rs 5840 for
reconstructing the Melena
Bridge in South Wynad on
Road No. 31, is submitted for the sanction
of Government.

(True Extract)

For the Secretary

Sp. Secy.

The President of the Board Malabar
Superintending Engineer 4th Circle.
Secretary to Govt. P.W.D.
with letter in original & explanation for
Melena Bridge thereat.
Accountant General

1884-5
Board of Revenue,
MADRAS.

To

The Secretary to Govt.
P.W.D.



Proceedings, dated 23rd January 1885.

No.

627

Price.

Subject.

Sanction estimate amounting
to Rs. 5570 for constructing Edward
& Karumpikal Bridges in
Malabar District, submitting
for the sanction of Govt. the estimate
of Rs. 5840 for reconstructing the
Molena Bridge in P. Wynad.

8/15
PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the

Read the following

From the Supty. Engrs. IV Circle (H. K. 10/2-1884)
Prayer of the Bd of Rev. (H. K. 10/2-1884)

The estimate
amounting to Rs. 5840,
for reconstructing
the Molena Bridge,
on road No. 31 in
Santo Wynad, is
sanctioned.

2. This sanction
has been requested

as Local No. 53 of
17/2/85 1884-85.

To the Bd of Rev. with
enclosure
at Co. IV Circle
Supt. Engrs.

(Chief Secy. for
Comptroller's initials)

Ch.
5.2.85

5.2.85

Ch

6/2/85

9
295

1884
Govt. of Madras
PUBLIC WORKS.

1884

1884