

- (1) பக்கங்களின் எண்ணிக்கை 14
 (2) புதுக்கித் திருப்பிய நாள் Jun 20
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 6/9

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P W துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	280	அச்சகம் பலவகை
நாள் :	4. 2 - 1853	198 .

7
மடிக்கவோ கண்டபடி கையாளவோ கூடாது

சுபாஷ்

4TH FEBRUARY 1893, No. 230 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT

Buildings and Roads.
Civil Works.

Read—the following paper:—

From J. C. LARMINIE, Esq., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated 14th December 1892, No. 525 W.

I have the honour to forward, for early sanction of Government, a plan and estimate, amounting to Rs. 7,000, for renewing the Kotiyadi bridge of three spans in the twenty-third mile of road No. 8 in the Kásaragód taluk, South Canara district, substituting an iron superstructure in place of the late timber one.

2. There is a grant of Rs. 6,000 for the work in the current year's budget.

3. A copy of the resolution of the District Board approving the estimate is herewith enclosed.

4. In regard to the design, the sections of the main beams are correctly proportioned to the load to be carried, assuming a live load of 120 lb. per square foot; but I am of opinion that, in a district where timber is so cheap, the cost of the bridge might be considerably reduced (by nearly one-half) by substituting a timber flooring, as the weight of the iron flooring and kerbing allowed is 7 tons (nearly) out of a total weight of iron of 17½, and, of course, this excessive weight of floor (with its load of gravel and metal) involves a great increase in the weight and cost of the main girders required to carry it.

ENCLOSURE.

EXTRACT from the Proceedings of the District Board of South Canara, dated 28th Nov. 1892.

9. Read letter, dated 10th November 1892, No. 628, from the President, Taluk Board, Kásaragód, submitting, for the approval of the District Board, plans and estimates for Rs. 7,000 for renewing the Kotiyadi bridge on road No. 8.

The plans and estimates are approved and will be submitted to Government for its approval and sanction.

(Signed) A. V. BRODIE,
President, District Board, South Canara.

ORDER—dated 4th February 1893, No. 230 W., Public Works.

The estimate, amounting to Rs. 7,000, for renewing the Kotiyadi bridge in the twenty-third mile of road No. 8 in the Kásaragód taluk, South Canara district, is sanctioned.

2. This sanction has been registered as Local No. 32 W. of 1892-93.

(True Extract.)

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

To the Superintending Engineer, IV Circle.
Local and Municipal Department, with plans and estimates.
Editors' Table.

Exd. C. A. Manisawmy.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1893} Madras.
PUBLIC WORKS.

Dated February, 4th.

Recd.

Encl.

G.O., 4th Feb. 1893, No. 280 W.

FEBRUARY.

Kotiyadi Bridge

Estimate of Rs. 7,000 for renewing the
— in the twenty-third mile of road No. 8
in the Kasaragod taluk, South Canara dis-
trict, sanctioned.

Supg. Engrs' Office 4th circle.

11, December 1892

No. 525
11

280
3

From

J. C. Larmine Esqr,
Supg. Engineer 4th Circle

To

The Chief Engineer,
P.W. Department.

Sir,

I have the honor to forward
Encs 3 for early sanction of Government
1 Plan a plan and estimate amounting
1 Estimate to Rupees 7,000, for renewing the
1 Extract Kotiyadi Bridge of 3 spans in
the 23rd mile of Road No. 8 in
the Kasaragod Taluk, South
Canara District, substituting
an iron superstructure in place
of the late timber one.

2. There is a grant of Rs. 6,000
for the work in the current year's
Budget.

3. A copy of the Resolution
of

of the District Board approving
the estimate is herewith enclosed.

4. In regard to the design, the
sections of the main beams are cor-
rectly proportioned to the load to be
carried, assuming a live load of 120
lbs per sq. ft. But I am of opinion
that in a District where timber is
so cheap, the cost of the bridge might
be considerably reduced (by nearly
one half) by substituting a tim-
ber flooring. As the weight of the
iron flooring and kerbing allowed
is 7 tons (nearly) out of a total
weight of iron of $17\frac{1}{2}$; and, of course,
this excessive weight of floor (with
its load of gravel & metal) involves
a great increase in the weight &
cost of the main girders required
to carry it.

I have the honor to be,

Sir,

Your most obed^t. servant

J Carmichael
Supg. Engineer, 4th Circle
14/12/92

280
17

3

P. W. CURTIS NT No. 12518
From

The Supg Engr
1 Circle

Dated 14th Dec 1922
1922
Recd 17th

Cp. 525
117

Encls 3⁴
(24/11/22)

Renewing the Koteriya
Lit Bridge

Forwards for sanc-
tion of Govt an esti-
mate of Rs 7000 for

Extract from the Proceedings of the
District Board of South Canara
dated 28th November 1892 289

Present:-

V. A. Brodie Esq. President

A. M. Slight Esq. Esq. Head Assistant
Collector of South Canara

M. R. Ky. H. K. Visweswara Rao Esq. Esq.
Sub Asst. Inspector of
Schools, Udippi Range.

J. H. Elsaesser Esq.

S. F. Brisco Esq.

M. R. Ky. A. Gundu Rao Esq. Esq.

" J. Raghunathya "

" M. Shiva Rao "

" J. Venket Rao "

" W. D. Venket Rao "

" K. Sheeshagani Pori "

" K. Sarua Thetti "

" Y. Annappa Thetti "

9. Dear letter, dated 10th Nov 1922
No 628, from the President, Taluk
Board

Board, Kasaragod, submitting for
the approval of the District Board,
plans and estimates for Rs. 7000 for
renewing the Koliyadi Bridge on
Road No. 8.

The plans and Estimates are
approved, and will be submitted
to Government for its approval &
sanction.

10 of A. V. Brodie,

President, Dist. Board,
South Canara.

(True copy)

J. C. L.
Supt. Engineer, H. Circle
in/ra

Public Works Department.

Current No.

12518

Letter No.

555/

Dated

17th December 1892

From the

Supt. Engineer H. Circle.

TECHNICAL NOTE.

Name of work

Renewing the Koliyadi bridge
in the Kasaragod taluk, South Canara Dist.
Amount of estimate Rs. 7000

This estimate provides for renewing
the Koliyadi bridge in the 23rd mile
of road No. 8 in the Kasaragod taluk,
South Canara Dist. by substituting
an iron structure in place of a
wooden platform bridge & for the:
cutting, masonry repairs to the exist-
ing masonry piers & abutments.

The existing bridge is of 3 spans,
the centre span 30' 6" and the end
spans 22' 8" each in the clear. The
proposal is to carry each span
on 4 rolled iron girders of unequal
section & strength & a roadway
of 13' 6" clear between hand rails
or 12' 6" between curb plates car-
ried on a flooring of 2" x 6" planks.

The girders are to be parallel to
each other & 4' 4" apart from cen-
tre to centre & rest on cast iron

and plates set in cement on cast
stone blocks built into the masonry
piers & abutments.

The sections proposed for the girders
are as follows:-

Centre spans. side girders 12"x6" + cen:
the girders 16"x6" weigh:
ing 56 & 62 lbs per lineal
foot respectively.
End spans. side girders 10"x6" and
centre girders 14"x6" weigh:
ing 43 & 60 lbs per foot
respectively.

The existing waterway is stated
to be sufficient & the proposed gir-
ders are to be laid on the same
level as the wooden structures.

The rates for iron work cannot
be checked & that for masonry are
fair except for the following:-
Cement on flooring plates 15... against 12...
Cement plaster 12... do 10...
The saving will only be Rs 40 if sche:
dules rates be applied.

The plans & estimate have been
counter-signed by the President Dist.
Board & approved in Dist. Board
proceedings dated 28th Nov 1892,
but the S.E. IV Circle in submitting
the estimate for the sanction of Govt.
suggests that the cost of the work
may be reduced by nearly one
half if timber floor be substituted
in lieu of 2000 plates floor.
As timber is cheap in South
Canara Dist. The iron flooring
& cast weigh only 5 tons exclusive
of cement & metal, against 7 tons on
the

The use of timber
work was advised
the land - Rongly
the weight would be
taking the thickness
of planking at 3", it
should certainly not
be less.

Planking -
 $96 \times 18\frac{1}{2} \times \frac{1}{4} \times 50 = 16200$
Cost

$$2 \times 96 \times \frac{3}{4} \times \frac{1}{2} \times 50 = 3600$$

19800

or nearly 9 tons

8000
23 1/2

No. 280. A. A. P. February 1893

PUBLIC WORKS DEPARTMENT.

280/6

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following

From the S.E. IV Circle No. 525 W of 14th December 1892

The estimate, amounting
to Rs. 7,000 for repairing
the Koliya di bridge in
the 23rd mile of road No. 8
in the Kasaragod Taluk,
South Canara Dt., is
sanctioned.

W.S.
2 Feb

2. This sanction has been
registered as local
No. 32 W of 1892-93.

It is proposed
to communicate
this to the Editor's
Table

SP

over
27/1/93
Caly
31/Jan

The S.E. IV Circle
Local and Mump. Dept
with plans & estimates
Editor's Table

20/2

To the Honble the Chief
Local and Municipal
for favor of contribution

CS. 30/12 No. 3/3/93

W. C. ...
... SE.

C Dec 12 578/92

Govt. of Madras.

PUBLIC WORKS.

1/2/93

1st February 1893 280 W

Kotiyadi Bridge

Estimate of Rs. 7,000 for
renewing the — in the
23rd mile of road No 8 in
the Kasaragod taluk, South
Canara Dt., sanctioned

1/6/2

S.C. 6/2