

1. Number of pages, D
2. Date of repair, 23/12/57
3. Initials of Reference
7

M.B.O. 1-82,400-28-11-50.

MADRAS RECORD OFFICE.

Government of Madras.

P. Indira Varma DEPARTMENT
Am 19.12.58

G.O. No. <i>246</i>	Press <i>Mia</i>
<i>89</i> Dated <i>13-12-58</i>	<i>1858</i>

Not to be folded or roughly handled

Fort Saint George, Public Works Consultation of 19th October 1858.

No. 8. Read the following letter from Major E. LAWFORD, Officiating Chief Engineer; to the Secretary to Government, dated 8th September 1858, No. 3476.

SIR,

I have the honor to forward an Extract from a letter from the Acting District Engineer of Canara, under date the 23rd June 1858 No. 55, submitting an estimate of Rupees 605, six hundred and five, for the repair of a Lattice Bridge over the River Oopinagady, on the second mile of Trunk Road No. 3 in Canara.

1 Extract from letter from District Engineer of Canara No. 55 of 23rd June 1858.
1 Abstract Estimate.

2. The Bridge formed of Palmirah wood was put up four years ago, and its timbers are represented as being in excellent preservation, though the structure, from the weakness of the horizontal pieces, had sagged so much as to render it necessary to shore it up from below with Posts in 1856, and again this year. The deflection has become so great that the District Engineer considers it advisable to remove the entire superstructure, which originally cost Rupees 1,782-9-11, and to re-build it with horizontal pieces of larger scantling, with additional joists, and with the scarfs better secured by means of iron bolts and straps, at the same time raising the abutments four feet to give more water way.

3. These measures seeming to me necessary and judicious and the estimate for carrying them out moderate, I beg to recommend that sanction be given for the requisite amount Rupees (605), six hundred and five on emergency, in order that the preparation of materials may be commenced at once, for the execution of the work on the cessation of the rains.

Extract from a letter from the Acting District Engineer of Canara No. 55, dated 23rd June 1858.

3. The second estimate amounting to Rupees 605, is for the repair of a timber bridge over the Oopinangady River on the 2nd mile of Trunk road No. III.

4. This has become necessary in consequence of the cracking of the timber, and dangerous depression of the structure which had reached eleven inches in 1856, and in 1857 the Bridge was raised with levers and supported by junglewood posts from below; this was again done this year (1858) but in consequence of the very heavy traffic (250 carts a day) the bridge has begun to give way all over, and it must be at once removed to avoid the chance of its being altogether lost.

5. The palmirah wood lattice pieces, of which the bridge is composed, are still good after four year's wear, and with the exception of a few, that are split, can be used again. It is proposed now to renew the horizontal pieces with others of larger scantling, to secure the scarfs with iron bolts and straps, place the joists only 1½ feet apart (instead of 3 feet), and to use iron bolts with head and screw nuts every second hole, to raise the abutment four feet, as the former height was insufficient, to commence operations in November, but to get all the materials ready before, so that, when once commenced, a months work will finish it.

No. 9. ORDER THEREON, No. 2146; dated 13th October 1858.

Under the circumstances brought to notice, the Governor in Council sanctions for execution on emergency the estimate amounting to Rupees (605) six hundred and five, submitted with the above letter for repairing the Lattice Bridge over the Oopinungady river in the Canara District.

(Signed) T. PYCROFT,
Chief Secretary.

0.78

Central Office of P. Works.
Fort George 8th September 1858

N^o 3476.

Public
Communication

From, The Officiating Chief Engineer.

To, The Secretary to Government.
Public Works Department.

Enclosures 2

1 Extract from letter
from Dist^{ct} Eng^r of
Canara N^o 55 of 23rd
June 1858.

1 Abstract

Sir,
I have the honor to forward an Extract
from a letter from the Acting District Engineer
of Canara, under date the 23rd June 1858 N^o 55,
submitting an Estimate of Rupees 605, six hundred
and five, for the repair of a Lattice Bridge over
the River Copinagady, on the second mile of
Trunk Road N^o 3 in Canara..

2 The Bridge, formed of Palmirah
wood, was put up four years ago, and its timbers
are represented as being in excellent preservation,
though the structure, from the weakness of the
horizontal pieces, had sagged so much as
to render it necessary to shore it up from
below with Posts in 1856, and again this
year. The deflection has become so great that
the District Engineer considers it advisable
to

to remove the entire superstructure, which originally cost Rupees 1782-9-11, and to rebuild it with horizontal pieces of larger scantling, with additional joists, and with the scarps better secured by means of iron bolts and straps, at the same time raising the abutments four feet to give more water way..

3. These measures seeming to me necessary, and judicious, the Estimate for carrying them out moderate, I beg to recommend that sanction be given for the requisite amount Rupees (605) six hundred and five, on emergency, in order that the preparation of materials may be commenced at once, for the execution of the work on the cessation of the rains.

Central Office of P.W.D. } I have the honor to be
Fort St. George } Sir
8th September 1858 } Your Most Obedient Servt.
Sampson Major
Offg. Chief Engr.

To The Secretary to Government
P.W.D.

13/10/58

PUBLIC WORKS DEPARTMENT.
Public.

No. 2146.

Extract from the Minutes of Consultation under date the 13th October 1858.

Read the following letter from the Officiating Chief Engineer.

Forwards Estimate for the repair of the Lattice Bridge over river Oopinungady in Canara, and recommends it for sanction on emergency. } (Here enter 8th September 1858, No. 3476.)

Under the circumstances brought to notice, the Governor in Council sanctions for execution on emergency the estimate amounting to Rupees (605) six hundred and five, submitted with the above letter for repairing the Lattice Bridge over the Oopinungady river in the Canara District.

(A true Extract.)

Chief Secretary.

To the Officiating Chief Engineer.

Extract from a letter from the Acting
District Engineer of Banara. No. 55
dated 23rd June 1858.

3 The second estimate amounting
to Rupees 605, is for the repair of a timber
bridge over the Dopinangady River on the
2nd mile of Trunk Road. No. 111.

4 This has become necessary, in
consequence of the cracking of the timber,
and dangerous depreciation of the structure
which had reached eleven inches in
1856. In 1857 the Bridge was raised
with levers and supported by jungle
- wood posts from below; this was
again done this year (1858) but in
consequence of the very heavy traffic
(250 carts a day) the bridge has begun
to give way all over, and it must
be at once removed to avoid the
chance of its being altogether lost.

5 The palmarah wood lattice
pieces

pieces, of which the bridge is composed, are still good after four years wear; and with the exception of a few, that are split, can be used again. It is proposed now to renew the horizontal pieces with others of larger scantling, to secure the scarfs with iron bolts and straps, place the joints only $1\frac{1}{2}$ feet apart (instead of 3 feet), and to use iron bolts with head and screw nuts every second hole, to raise the abutment four feet, as the former height was insufficient. to commence operations in November, but to get all the materials ready before, so that, when once commenced, a month's work will finish it.

I have &c

(Signed) J. N. Hunter Lieut.

Actg Dist. Engr. Banara

(True Copy)

Captain
Charles H. M.

Actg. Supr. Engr. N. Circle

Extract from a letter from
the Sd. Dy. Commr. Bangalore
forwarding an estimate for
the repair of a timber
bridge over the
Dopenangoody River
on the 2nd mile of Trunk
Road No. III

11/21/08 J. S. J. 1/6

Recd. 8" 11/21/08

The Secy to Govt.
D. P. M.

From
The Dy. Commr. Bangalore

1858 Report

Public (roads)

Abstract of Estimate No.

Road No.

District. Banara -

11

(New Work)

of 185 . / 5

1. Repair a lattice Bridge over Dopenangoody River in the
ile of Trunk Road No. III Postoor Talook.

Description of Work	Rate			Amount for each part
	R ^s	a ^s	P	Rupees
6ft 8 New Horizontal beams of Good Junglewood 7ft 6	1	"	"	150
25 Additional Joists 2 1/2	"	12	"	127
Planking with 2 1/2	"	12	"	67
10 New Palmira lattice pieces 6a	"	6	"	4
50 Joist nails	"	3	"	9
120 Iron bolts with head & screw nuts Each	"	10	"	75
24 Straps of flat bar Iron for the scarfs	"	12	"	18
48 Bolts for 2 1/2 with head and screw nuts	"	5	"	15
1 Maund New nails for plank -ing	4	8	"	4
Removing Bridge and replacing it after repairs	"	"	"	24
6ft Laterite in Chumam 1000ft	10	"	"	84
Earth work filling in Approaches	"	2	"	16

Carried Over 593

Quantities	Description of Work	Rate			Amount	
		Rs	As	P	Ruppes	Ruppes
6 Yds	Brought forward				593	
	5 Gallons of Tar - 1/2 gal	1			5	
	Sundries				7	
	Total Company's Ruppes					605

Central Office of P.W.
Fort Saint George
8th September 1858

Sanjiv Major
Offg Chief Engineer P.W.

Enclosure

In a letter

From

The Offg. Chief Engineer
C. P. W.

To

The Secretary to Govt.
C. P. W.

Dated 8th { September / 58
Received

W 2104/58

N^o 3476.

Abstract Estimate for
Repairing a lattice Bridge
over Copernangady River in the
2nd Mile of Trunk Road N^o III
Pootoor Talook in the District
of Canara.

Amounting to C. P. 605-0-0

Mr. Geo. S. Quay, Esq. No. 314.

1007-1858 *De la Roche*
Sept 6 to Jan 19, 1858
No. 2100.

From
The Office of the
The Secy of the Army

To The Secretary to Govt
The Secretary to Govt

Dated 8th
Decr 10th } September 1858

No. 3476
Incl. 2

I forward to make for
the repair of the last three 13 mile
over two Coffin and in
aware, and recommends it
for sanction on Emergency.

13th Oct 1858
Geo. S. Quay

No. 2146

Under the circumstances.
I have brought to notice, the Governor
in Council's resolution for execution
on emergency the estimate amount-
ing to \$25,000 (25000) and five submitted with the
above letter for repairing the
battery. I have also over the Captain
quay river in the Councils
District.

13th Oct 1858
10 Oct 1858
Geo. S. Quay
13th Oct 1858
10 Oct 1858