

Initials of the Reference. *W.S.*

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works Department

Go. No. 1879 W.

DT. 13-7-1887

S.G.M.

13TH JULY 1887, No. 1879 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Salem, 29th June 1887, No. 265 E.W.:—

I have the honor to submit, for sanction and provision of funds, a revised estimate, amounting to Rs. 6,090, with a comparative statement, for constructing a wooden bridge at Barliyár, on the 23rd mile of Ootacamund-Kullar road.

2. The original estimate of Rs 4,940 was sanctioned in G.O., No. 1418 W., dated 4th June 1886. The excess of Rs. 1,150 over the original sanction is due to the following items:—

(1) The rate for rubble masonry has been increased from Rs. 40 to Rs. 53, owing to the difficulty of working with the very hard stone found on the spot and scarcity of skilled labor: hence the excess	Rs. 294
(2) The rate for wood-work has been raised from Rs. 2-8 to Rs. 2-12 for the substitution of iron-wood instead of vengay planking and joists, as the required quantities of the latter wood cannot be obtained: hence excess	116
(3) The cost for constructing temporary bridge, benching rocks, &c., has been increased from Rs. 750 to Rs. 1,440, as it was found absolutely necessary to make the temporary bridge safe for the heavy traffic passing over it, and also the cost of benching the rocks was much greater than anticipated: hence excess	690
(4) Corresponding excess on the item of contingencies and superintendence	100
Total	1,200
Deduct saving in the item of scaffolding	50
Net excess	1,150

ORDER—dated 13th July 1887, No. 1879 W., Public Works.

The revised estimate, amounting to Rs. 6,090, for constructing a wooden bridge at Barliyár, on the Ootacamund-Mettupálaiyam road, is sanctioned in lieu of the estimate of Rs. 4,940 sanctioned in G.O., No. 1418 W., dated 4th June 1886.

2. As the amount of the reserve with the Government is very small, the Superintending Engineer will, if feasible, propose a transfer of funds required for the work from the grant for other works in his circle.

3. This sanction has been registered as Provincial, No. 54 W. of 1887-88, and classified as Communications, Original Works.

(True Extract.)

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

To the Superintending Engineer, IV Circle, with three enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Financial Department.

Exd. E. Fernandez.

Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of 1887 Madras.

PUBLIC WORKS.

Dated July, 13th.

Recd.

Encl.

G.O., 13th July 1887, No. 1879 W.

JULY.

Bridge

Wooden — at Barliyar, on the Ootacamund-Mettupalaiyam road.—Revised estimate of Rs. 6,000, for constructing a —, sanctioned.

4TH JUNE 1886, No. 1418 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Chief Engineer, Public Works Department, dated Coimbatore, 11th May 1886, No. 143 E.W.

I have the honor to inform you that the wooden bridge in the 3rd furlong of the 23rd mile of the Ootacamund-Mettupalaiyam road, near Barliyar, is considered to be in a dangerous state, and should be rebuilt at an early date in a substantial manner.

2. The beams have rotted considerably at the ends, and the piers are cracked, and supported by wooden braces strapped on to stone with iron bands. The beams have been temporarily propped by wooden uprights and stone in mortar pillars. From a careful inspection of the site, the Executive Engineer is satisfied that a temporary structure might be put up at small cost to carry the roadway during reconstruction.

3. I send, herewith, for your information, two estimates for reconstructing the bridge in a substantial manner. One estimate, amounting to Rs. 4,940, provides for a wooden platform bridge on piers of rubble masonry in cement. The other estimate, amounting to Rs. 8,070, shows the cost if the platform and hand-rails be of iron on rolled iron beams.

Note by the Chief Engineer, Public Works Department.

In this letter, the Superintending Engineer, IV Circle, reports that a bridge near Barliyar, on the Ootacamund-Mettupalaiyam road, is in a dangerous state, and he submits two estimates for reconstructing it in a substantial manner. The first estimate, amounting to Rs. 4,940, provides for a wooden superstructure, and the second, amounting to Rs. 8,070, for a rolled iron girder bridge.

2. The timber bridge, if properly built and properly maintained, may be expected to last 25 years; but if it can be counted on for a life of only 15 years, it will probably be found in the long run to be cheaper to spend some Rs. 5,000 on it, than some Rs. 8,000 on an iron bridge.

3. In the present financial position, it is considered that the cheaper alternative must in any case be adopted.

4. The estimate of Rs. 4,940 is therefore recommended for sanction.

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Chief Engineer, P.W.D.

ORDER—dated 4th June 1886, No. 1418 W., Public Works.

The estimate, amounting to Rs. 4,940, for constructing a wooden bridge at Barliyar, on the Ootacamund-Mettupalaiyam road, is sanctioned.

2. The requisite funds will be provided in the orders on the statements of demands on the reserve with Government.

3. This sanction has been registered as Provincial, No. 35 W. of 1886-87, and classified as Communications, Original Works.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with six enclosures.
" Examiner, Public Works Accounts, with duplicate abstract estimate.
" Financial Department.

Exd. P. L. Pereira.
Spare Copies

1879
3

BUILDINGS AND ROADS.
CIVIL WORKS.

Gobt. of (1886) Madras
PUBLIC WORKS.

Dated June, 4th.

Recd.

Encl.

G.O., 4th June 1886, No. 1418-W.

JUNE.

Bridge

Wooden — at Barliyar, on the Ootacamund-Mettupalaiyam road. — Estimate of Rs. 4,940 for constructing a —, sanctioned.

Superintending Engineer's Office 4th Circle.

Camp Salem 29 June 1887.

No. 265
W.

FROM,

COLONEL J. BEATTY B. E.,

SUPERINTENDING ENGINEER,

FOURTH CIRCLE.

TO,

The Chief Engineer
P.W. Department.

SIR,

Enclos 4.

1 Revised estimate
1 Comparative statement
1 Duplicate abstract
10th letter No. 873 of 14-6-87 from E. Sup. 2
Hd. B.

I have the honor to submit for sanction and provision of funds a revised estimate amounting to Rs 6090 with a comparative statement for constructing a Wooden Bridge at Burliar on the 23rd mile of Coity-Kullar Road. The original estimate of Rs 4940 was sanctioned in G.O. No. 1418 W. dated 4th June 1886. The excess of Rs 1150 over the original sanction is due to the following items:—

(1) The rate for rubble masonry has been increased from Rs 40 to 53 owing to the difficulty of working with the

the very hard stone found on the spot,
and scarcity of skilled labour; hence
the excess Rupees—294

(2) The rate for wood work has
been raised from Rs 2-8- to 2-12-
for the substitution of iron wood
instead of acengay planking &
joists as the required quantities
of the latter wood cannot be
obtained; hence excess Rs—116

(3) The cost for constructing tem-
porary bridge, benching rocks
&c has been increased from Rs
750 to 1440 as it was found abso-
lutely necessary to make the
temporary bridge safe for the
heavy traffic passing over it and
also the cost of benching the rocks
was much greater than antici-
pated; hence excess Rs—690

(4) Corresponding excess on the item
of contingencies and superin-
tendence—100

Total Rs 1200

¹⁸²⁹
Total Rupees 1,200

Deduct saving on the
item of scaffolding Rs—50
Net excess—Rs 1150

I have the honor to be
Sir

Your most obt. servt.

L. Beatty. Colonel R.E.
Suptg. Engineer IV Circle

[Signature]

Q. A. 1418 W. 4. 6. 86.

P.W.C. No. 4984
FROM
COLONEL J. BEATTY R. E.,
SUPERINTENDING ENGINEER,
FOURTH CIRCLE.

Dated. } 29th June 1887.
Recd: } 31. 7. 87

No. 265
R.W.

ENCLO: 5

Wooden Bridge at Burliar
on the 23rd mile of Ooty Nullah
Road:—

Submitting for sanction
and provision of funds
a revised estimate of
Rs. 6090 for constructing
a—

6. 7. 7. 87

N.B.—Please quote the number and date of this letter in future communication on the subject.

Enclosures. 6

Revised Estimate
Comparative Statement
Estimate
Final Report
Specification
Tracing.

No. 873

FROM

W. B. de Winton Esq.

EXECUTIVE ENGINEER,

NILGIRI DIVISION,

OOTACAMUND,

TO

THE SUPERINTENDING ENGINEER,

FOURTH CIRCLE,

COIMBATORE.

SIR,

I have the honor to forward for early sanction a revised estimate accompanied by a Comparative Statement together with the original sanctioned estimate etc. for reconstructing the wooden platform Bridge at Burliar.

2. The excess of Rs. 1150 or about 18 1/2 percent over the sanctioned estimate is explained due chiefly to the difficulty of working the very hard stone found on the spot, the scarcity of skilled labor, the use of iron wood instead of Venpay for planking and joists owing to inability to procure the latter in sufficient quantities, and the extra amount which it was found absolutely necessary to spend

P. W. D.

NILGIRI DIVISION OFFICE,

STATION Mettupolia

17 June 1887

1299
15

Spent on the temporary Bridge to make it
safe for the heavy traffic passing over it.
The cost of building the rock was also much
greater than was anticipated

I have the honor to be,

Sir

Your most obed^t Servant.

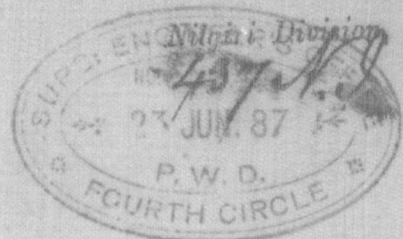
Wm. H. Burton
Executive Engineer

W.H.B.

W.H.B.

From

The Executive Engineer,



To

The Superintending Engineer,

Fourth Circle,

Enclosure No: 4 of a letter
No: 265 of 29th June 87 from
the Supy. Engr: 4th circle

Dated

Despatched

Received

17 June 1887.

No. 873

Enclosures. 6

Subject.

Burliar - Reconstruct-
ing a wooden Platform
Bridge at - Submits an
estimate for Rs 5850/- for
sanction.

18794

Public Works Department.

Current No.

4984

Letter No.

265

Dated the

29th June/87

From the

Supy. Engr: IV Circle

NOTE OF REMARKS.

The accompanying
revised estimate pro-
vides for constructing
a wooden bridge
on the 23rd mile
of the Boly Kullar
road.

The estimate under
review amounts to
Rs 6090 or Rs 1150
in excess of the
original estimate
of Rs 4940 sanctioned
in G.O. No 1418W
of 4th June/86.

The excess of about
23 1/2 per cent over
the sanctioned
estimate is

67787

attributed.

1st To the difficulty
experienced in working
the very hard stone
to be found on the
spot & the scarcity of
skilled labour which
caused an excess of
Rs 294

2nd To the use of
iron wood instead
of Tenggay, the latter
not being procurable
in sufficient quantities
caused an excess of
Rs 116

3rd To the absolute
necessity for making
the temporary bridge
safe for heavy traffic
& for benching the
tracks, caused a very
considerable excess
of Rs 690

The Contingencies
& Superintendence
have been accordingly

increased by Rs 50 each

1829

The actual excess
on this Estimate
amounted to Rs 1200
which was reduced
to Rs 50 by a saving
of Rs 50 in the
item for scaffolding.

At an additional
cost of Rs 1900 over
the present Estimate
the alternative plan
for a rolled iron
girder bridge as
submitted by S.E.
& which was only
rejected on the
score of economy.
might have been constructed
C.M.S.

2/7/87

The revised estimate
may be submitted

W.M.

4.7.87

B

1348
Public Works Department.

No. 1879

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 13th July 1879

Read the following

From the Supg. Engineer W. Birch A.E. No. 265 of 29 June 79

The revised estimate amounting to Rs 6090 for constructing a wooden bridge at Puthiyak on the Ootacamund. Mettur. Palaiyam road is sanctioned in lieu of the estimate of Rs 4940 sanctioned in G.O. No. 1418 W dated 4th June 79.

2. As the amount of the reserve with the Government is very small, at present the

Supg.

Supg. Engineers will, if
feasible, propose ^a transfer
of funds required for
the work from the
grant for other works
in his Circle.

3. This sanction has
been registered as Pro-
-vincial No. 54 of
1887-88 and classified
as Communications in
Original Works.

WV
7.7.87

Joh
8/7/87

11
7/7

10/7/87
11/7/87

6-7-7-87 13-7-87

Mr. H. R. P. H. P.

(1)

J. C. M.
13/7/83
B. W.
13/7

Supg. Engrs. in Circle
with 3 enclosures
Engr. P. H. P. H. P.
with duplicate abstract
estimate
Financial Dept.

24/7/87
20/7/87
Dw
4

18/7/87
11

13-9-165

4984

Govt. of (1887) Madras

PUBLIC WORKS.

14/7/87

Dated

Re:.

Encl:

G.O. 13th July 1887, No. 1879 W.

Bridge

Wooden - at Barliyar, on
the DoCacaminid & Elletta
Palaiyam road. Revised
estimate of M. Gogo for
constructing a - sanctioned

60
/ 4

W. 4. 4. 5 PM

Page 7