M.R.O. 1—77,005—8-6-37.

(1) Number of pages 19-9-40.

(2) Date of repair 14.

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Financial DEPARTMENT.

G.O. No. 954	Press Mis.
279-280A	279--280-A
Dated 29-4-1875.	

8/9

Not to be folded or roughly handled

Proceedings of the Madras Government, Financial Department,
29th April 1875.

Local Funds—Roads.

Read the following papers :—

No. 279. Proceedings of the Board of Revenue, dated 22nd March 1875, No. 687.

Read the following letter from A. MACGREGOR, Esq., President of the Local Fund Boards, Malabar, to H. E. STOKES, Esq., Acting Secretary to the Board of Revenue, dated Calicut, 25th February 1875, No. 460 :—

I HAVE the honor to forward, for sanction, plan and estimate, amounting to Rupees 11,870, for reconstructing the bridge over the Parwana Tadu on the 30th mile of road from Kordotti to the foot of Karkoor Ghaut.

2. The bridge fell during a heavy flood in the last monsoon, one of the abutments having been partly washed away.

3. In their Proceedings, dated 27th May 1874, No. 3,497, the Board of Revenue sanctioned a sum of Rupees 2,460 for putting up land-bays to this bridge, in order to relieve the pressure against the faces of the abutments; but before the work could be commenced the monsoon set in, and the bridge finally collapsed; and the result would have been the same, even if the land-bays had been put in, as the materials used for the construction of the bridge were of the worst description; and laterite, it is now admitted, is unfit for high abutments, the great pressure on the saturated material eventually crushing the bottom courses.

4. The sum of Rupees 2,460, sanctioned for the construction of land-bays, has been surrendered in favor of incomplete works of the past year, *vide* G. O., No. 1,892, dated 6th November 1874. The Local Fund Board of the Calicut Circle has approved of this estimate, and provided Rupees 7,000 in the Budget 1875-76. The estimate provides for rebuilding the abutments in brick and chunam and replacing the existing composite iron and wood superstructure.

THE estimate will be submitted for the sanction of Government after examination by the Chief Engineer.

(A true Copy and Extract.)

(Signed) H. E. STOKES,
Acting Secretary.

Referred to the Chief Engineer for his remarks.

FORT ST. GEORGE,
1*st April* 1875.

(Signed) W. HUDLESTON,
Chief Secretary.

No. 450.

No. 280. MEMORANDUM.

It seems to be proposed to replace the laterite masonry of this bridge, which has given way under its own weight owing to the inferior quality of that material found in the neighbourhood, by well burnt brick-in-chunam. One abutment will be on rock, which must be carefully tabled, eight feet depth of foundation is

allowed for the other, at which depth it is presumed to have been ascertained that rock or other reliable stratum is found. The masonry appears to me to be unnecessarily solid, and I do not know why Portland cement should be used for plastering the faces of abutments and cut-waters. Reduction is possible in the above items.

2. I do not approve of the proposal to replace the original superstructure, the beams of which are said to have sagged. The expedient of turning them over and inserting an extra beam twelve inches by ten untrussed under the centre of the roadway, the bridge being fourteen and a half feet wide and forty-six feet clear span, will not answer. The scantlings of the side trusses must be properly revised. The high water-mark on the plan is nearly up to the bridge platform; but, remembering its site, I conclude it is backwater from the large river adjacent, the height of which is given.

3. Altogether the proposals of the Range Officer and late District Engineer require revising by the present District Engineer, who is more competent for the duty.

FORT ST. GEORGE,
24th April 1875.

(Signed) G. W. WALKER, Colonel, R.E.,
Chief Engineer, P.W.D.

To the Chief Secretary to Government, Fort St. George.

No. 280A. ORDER THEREON, 29th April 1875, No. 954.

Ordered that the plan and estimate be returned for revision through the Revenue Board to the President, Malabar Local Fund Boards, with reference to the Chief Engineer's memorandum.

(True Extract.)

Officiating Chief Secretary.

To the Board of Revenue, with plan and estimate.
" Public Works Department.

Exd. E. C. Shunker.

Govt. of {1875} Madras.

FINANCIAL.

To

THE BOARD OF REVENUE,
&c., &c., &c.

Dated April, 29th.

Issued

Recd.

Rec'd.

G.O., 29th April 1875, No. 954.

APRIL.
Nos. 279-280A.

Local Funds, Roads.—Plan and estimate for the reconstruction of a bridge over the Parwana Tadu on road from Kordoth to the foot of the Karkoor Ghaut, Malabar District, ordered to be returned for revision through the Revenue Board to the President, Malabar Local Fund Board with reference to the Chief Engineer's memorandum.

ST

No. 687.

PROCEEDINGS OF THE BOARD OF REVENUE, dated 22nd March 1875.

Read the following letter from A. MACGREGOR, Esq., President of the Local Fund Boards, Malabar, to H. E. STOKES, Esq., Acting Secretary to the Board of Revenue, dated Calicut, 25th February 1875, No. 460 :—

I HAVE the honor to forward, for sanction, plan and estimate, amounting to Rupees 11,870, for reconstructing the bridge over the Parwana Tadu on the 30th mile of road from Kordotti to the foot of Karkoor Ghaut.

2. The bridge fell during a heavy flood in the last monsoon; one of the abutments having been partly washed away.

3. In their Proceedings, dated 27th May 1874, No. 3,497, the Board of Revenue sanctioned a sum of Rupees 2,460 for putting up land-bays to this bridge, in order to relieve the pressure against the faces of the abutments; but before the work could be commenced, the monsoon set in, and the bridge finally collapsed; and the result would have been the same, even if the land-bays had been put in, as the materials used for the construction of the bridge were of the worst description; and laterite, it is now admitted, is unfit for high abutments, the great pressure on the saturated material eventually crushing the bottom courses.

4. The sum of Rupees 2,460, sanctioned for the construction of land-bays, has been surrendered in favor of incomplete works of the past year, *vide* G. O., No. 1,892, dated 6th November 1874. The Local Fund Board of the Calicut Circle has approved of this estimate, and provided Rupees 7,000 in the Budget, 1875-76. The estimate provides for rebuilding the abutments in brick and chunam, and replacing the existing composite iron and wood superstructure.

THE estimate will be submitted for the sanction of Government after examination by the Chief Engineer.

(A true Copy and Extract.)

Acting Secretary.

To the Chief Secretary to Government, Financial Department, with two enclosures.
Copy to the President, Local Fund Boards, Malabar District.
,, to the District Engineer, Malabar.
,, to the Controller of Public Works Accounts.

Exd. W. H. French.

P-450.

Chief Engineer's Memorandum

It seems to be proposed
replace the Lateritic Bri
ry of this Bridge, which R.D.
has given way under
own weight owing to
inferior quality of
material found in
neighbourhood, & wei
burnt Brick in chunam
One Abutment rests on
Rock, which must be cut
fully tabled; & 9' depth
of foundations is allowed
for the other, at which
depth it is presumed
to have been ascertained
that rock, or other reli
-able stratum is found.
The masonry appears to
me to be unnecessarily
solid; and I do not know
why Portland Cement sh
be used for plastering
the faces of Abutments
and Cutwaters. Reduc
-tion is possible in the
above items.

Hon'ble Secretary to Govt.
Fort St. George.

Dated 19th April 1875.

Chief Engineer.

Bridge—over Parwana Tadu on road from Kordotti to the foot of Karkoor Ghaut, in Malabar District.—Estimate, amounting to Rs. 11,870, for the reconstruction of —, submitted for sanction of Government after examination by the Chief Engineer.

MARCH.
No. 687.

Received 1st March 75

Dept. of Marine
No 776.
Dated 27th March 1875.

954/75

PROCEEDINGS, 22ND MARCH 1875, No. 687.

BOARD OF REVENUE,
MADRAS.

Hon'ble Secretary to Govt.
Fort St. George.

Dated 19th April 1875.

Chief Engineer.

Encl. 2

I do not approve of the proposal to replace the original superstructure, the beams of which are said to have sagged. The expediency of turning them over, and inserting an extra beam 12 inches deep, underneath the centre of the Roadway, the Bridge being 14½ ft wide and 46 ft clear span, will not answer. The drainage of the side Tanks must be properly carried. The High Water mark on the plan is nearly upto the Bridge Platform; but, remembering its site, I conclude it is back water from the large River adjacent, the height of which is seven-

Altogether, the proposals of the Ranger Officer and late District Engineer require revising by the present District Engineer,

who is more competent for the duty.

Lt. Col. Sutherland R.E.
Chief Engr. W.P.C.

24.4.75

To The Chief Secretary to Government
with Revn Board's Proceedings &c. 68
of 22nd March 1875 and two Enclosures

Financial (1875) Depart

Local Fund - Roads

From

The Chief Engineer

D P W

No 450

Dated 24th } April 1875
Received 28th }

Papers sketch

No. 1046

Offering remarks on the Est. for reconstructing the Bridge over Parwana Padu on road from Kordotti to the foot of Karkoor Ghaut in Malabar District.

29th April /75. No. 954

Ordered that the Estimate be returned to [illegible] [illegible] with reference to [illegible] the Chief Engineer's [illegible]

To the Board of Revenue
— Public Works Dept } 3 May 1875

P. W. 1875 Defpl.
No. 213b.

Imm. Chief Secretary.
to Govt.

Dated. 1st April
Recd. 2nd ——— } 1875.

Referring to re-
marks of Chief Engineer
P.W.D. of Rev: Board,
submitting Estimate for
bridges on road from
Bandotti to Kalikoor thana
Malabar District.

Govt. of {1875} Madras.

Financial

G. O., 29th Aug., 1875, No. 954

Nos. 279-280.

Local Funds - Roads. Plan and esta, for the ~~---~~ reconstruction of a bridge over the Parwana Todu on road from Kondotti to the foot of the Karkoor ghaut, Malabar Dt, ordered to be returned for revision through the Revl Board, to the Pres.t Malabar L. F. Bds, with reference to the Chief Engineer's memorandum.