

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 788	Press Mis.
405-06	
Dated 16. 3.	1871.

Not to be folded or roughly handled

2/10/75

Govt. of 1875 Madras.

PUBLIC WORKS.

*The Superintendent
Engg 1st Division*

Date

Recd.

G. O. 16th March No. 488.

Nos. 405-406

*Biccavole Bridge. Repairing
orders in the letter from the
Superintendent 1st Division
Further particulars from
the Inspector in charge of
No. 1 Range, Godavery, in
connection with the
failure of the Biccavole
Bridge.*

Proceedings of the Madras Government, Public Works Department,
16th March 1871.

No. 405. Read the following letter from the Acting Superintending Engineer, 1st Division, to the Secretary to Government, Public Works Department, dated Dowlaishweram, 13th February 1871, No. 3,811:—

ADVERTING to G. O., No. 84, dated 12th January 1871, I have the honour to

One copy of letter from Executive Engineer in charge of No. 1 Range, Godavery, No. 518, dated 6th February 1871.

forward herewith copy of a letter from the Executive Engineer in charge of No. 1 Range, Godavery, which furnishes the further information called for by Gov-

ernment in connection with the damages to the Biccavole bridge.

2. From Captain Hasted's letter it will be observed that the bridge in question was constructed under the personal superintendence of Mr. Sage, the late Range Officer, who supplied the materials and paid a Bricklayer Maistry, in whom he had confidence, for the work by the piece, and that this individual must be absolved from all blame and responsibility in the matter, from the fact of the work having been passed and money paid to him.

3. Captain Hasted believes that the bridge will stand as it is, but that, as stated by him previously, the cracks might be cut out, and bonding stones introduced, which might make it quite safe. With reference to this, I beg to observe that the Chief Engineer for Irrigation, during his late inspections in this district, was of the same opinion as myself in regard to the rebuilding of one of the abutments of this bridge, and as this would also enable us to reduce the height of the roadway nearly 3 feet, by placing it on the lower flange of the girders as suggested by Captain Hasted, and thus diminish the gradients of approach very considerably—a very important matter in a delta—I beg the Government will now be pleased to authorize these proposals being carried out.

From Captain J. O. HASTED, R. E., Officer in charge of No. 1 or Eastern Delta Range, Godavery District, to the Superintending Engineer, 1st Division, dated Dowlaishweram, 6th February 1871, No. 518.

With reference to your memorandum, No. 3,687, dated 4th instant, I have the honour to inform you that I am unable to compel the Bricklayer Maistry who built the Biccavole bridge to make good the cost of repairing the work.

2. I was in error in designating the Maistry a contractor; the work was carried out under the personal superintendence of the late Range Officer, who supplied the materials and paid a Bricklayer Maistry, in whom he had confidence, for the work by the piece. If the work failed from the use of inferior materials, the Maistry was not to blame, and, if from bad workmanship, the fact that the work was passed and money paid to him for it absolves him, I think, from responsibility.

3. I still think that the primary cause of the cracks was that earth was thrown between the wing-walls and exposed to heavy rain while the masonry was green. This was done without order, and all that is now in our power is to stop whatever small balance is due to the Maistry for doing what he ought to have known was objectionable to suit his own convenience. The workmanship of the lower part and interior of the walls may be bad. The stone used was very small I will allow; but the chunam appears good, and the section of the wall is smaller than I should have given, but a similar bridge built about the same time is standing without cracks. There is therefore no other reason that I can assign for the cracks.

*Proceedings of the Madras Government, Public Works Department,
16th March 1871.*

4. The bridge will, I believe, stand as it is, and, as I stated before, the cracks might be cut out and bonding stones introduced, which would, I think, make it quite safe; but the Chief Engineer for Irrigation, in his late inspection of the canal, was of opinion that one abutment should be entirely re-built. This, of course, would be the safest plan, and would remove the blemished work.

5. I have the honour to request instructions as to the course I am to pursue, and, if the abutment is to be re-built, I would suggest that the roadway should be carried on the lower instead of the upper flange of the girder, which could be done at a very trifling expense, and would save 2½ feet in height of the wing-walls.

No. 406.

ORDER THEREON, 16th March 1871, No. 788.

CIVIL WORKS, No. 18.

As Captain Hasted is still of opinion that the foundations of the abutment of the Biccavole bridge which has cracked are perfectly sound, and that the abutment can be rendered quite safe by the cracks being cut out and built in, the Government consider it expedient to carry out these simple repairs instead of incurring the expense of re-constructing any part of the work.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

No 518

From

Dowlaiswaram
4th Engrs Office
15 February 1871 ✓

The Officer in Charge
No 1 or Eastern Delta Range
Godavery District

To,
The Sub Engineer
1st Division
Dowlaiswaram

1. With reference to your Memo No 3687 dated 4th Instant, I have the honour to inform you that I am unable to compel the Bricklayer Maistry who built the Bickavole Bridge to make good the cost of repairing the work.

2. I was in error in designating the Maistry a Contractor, the work was carried out under the personal superintendence of the late Range Officer who supplied the materials and paid a Bricklayer Maistry, in whom he had confidence, for the work by the piece. If the work failed from the use of inferior materials the Maistry was not to blame, and if from bad workmanship the fact that the work was paid and money paid to him for it absolves him, I think, from responsibility.

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No. 406.

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and would remove the blemished work.

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roadway should be carried on the
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girder.

girder, which could be done at a very
trifling expense and would save 2 1/2 feet
in height of the wing walls. 3

I am y^{rs} y^{rs}

/ Signed / J. Q. Masters Capt. 128

Executive Engineer

(True Copy)

Wm. T. Fisher Major 128

Asst. Sup. Engineer, 1st Division

Sept 25/71
Endeavour in a letter
of 23rd 11th of 1871
from the lady of the
Island to the
Island of the
Island of the

No 3811

Major J. L. Fischer M.C.
Sg. Secy Engineer 1st Div
Colonel C. A. Orr M.C.
Secretary to Government
Albany.

Sir,

Sir,
 Adverting to G.O. No 84 dated
 12th January /71 I have the honor to forward
 herewith copy of letter from the Executive
 Engineer in charge, 1st Range, Godavari,
 which furnishes the further information
 called for by Government, in connection with
 the damages to the Buchanan Bridge.
 O. P. Narsai's letter is

2 From Captain Hasked's letter it will be observed that, the Bridge in question was constructed under the personal supervision of Mr. Lage, the late Range Officer, who supplied the materials, and paid a Brick-layer Ministry, in whom he had confidence, for the work, by the piece, and that this individual must be absolved from all blame and responsibility in the matter, from the fact of the work having been passed, and money paid to him.

3. Captain Hasted believes that the Bridge will stand as it is, but that as stated by him previously, the cracks might be cut out, and

Public Works Department
No. 788.
Proceedings of the Madras Government
Under date the 16th March 1871.

Read the following

From The Dy Supy Engineer 1st Divⁿ / A. E. No. 3811 of 13th February 1871/

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repairs

P.O. 12 January 71 W 169-175

1871 / 1871
No. 123811 No. 765

The Dy Supy Engineer
1st Division

To The Secretary to Govt
Madras

Dated 13th February 1871
Recd 20

Forwarded copy of a letter
received from the Dy Engineer
in charge of the Range, Godevar
which furnishes further
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Government in connection
with the damages done to
the Biccavole Bridge.

No. 788. 16th March 71

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16th March 71 R. 6th

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Wp

The Life Guard 1. 2nd

Dec 17/3/71