

(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. 78	Press
B.P. No. 157.158	Mis.
Dated 13. 1. 1874.	195

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
13th January 1873.*

No. 157. Read the following letter from A. C. LAWFORD, Esq., Officiating District Engineer, South Canara, to Colonel G. W. WALKER, R.E., Chief Engineer, Public Works Department, dated Mangalore, 4th December 1873, No. 95 :—

I HAVE the honour to bring to your notice the following cause of the destruction of the Bermakutla Bridge on the 13th mile of the road from Mangalore to Mercara.

2. This bridge was found to be so seriously cracked that an estimate for a new structure was necessary and submitted for sanction. This estimate for Rupees 4,400 was sanctioned in Revenue Board's Proceedings, No. 811, of 10th February 1873.

3. On dismantling the work, it was ascertained that the damage was entirely due to the roots of a banyan tree which extended completely across the bridge to a distance of 225 feet from the tree itself, penetrating and cracking the masonry of the arches by numerous rootlets. At 171 feet from the tree the thickness of the root was six inches, from which point it bifurcated with a thickness of four and a half inches and three inches for each root respectively.

4. I deem it advisable to report the circumstances as it may not definitely be known in the department to what extent trees with lateral roots are capable of causing damage.

5. It would appear from this instance that such trees should not be planted within 300 feet of a masonry work.

No. 158.

ORDER THEREON, 13th January 1874, No. 78.

CIVIL WORKS, No. 8.

ORDERED to be communicated to District Engineers for general information.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To District Engineers.
„ Major R. B. Kennedy.

Exd. W. H. French.
Spare copies

root was 6" from which point it bifurcated
with a thickess of $4\frac{1}{2}$ " and 3" for and
root respectively.

4. I deem it advisable to report
the circumstances as it may not
definitely be known in the future to
what extent trees with top roots are
capable of causing damage.

5. It would appear from this
instance that such trees should
not be planted within 30 feet of
a masonry work.

I have the honor to be

Yours most respectfully

Wm. A. Adams

Off. District Engineer
L. L. L.

No 98 Examination

Letter to Chief Engineer
 No 95 of 4th Dec on the
 subject of destruction of
 the Bernas Kullor Bridge on
 the Mangalore & Javara
 Road. para 4
 for "top roots"
 Read "lateral roots"

McLachlan

Distt Engr Office,
 Mangalore
 5 Dec 1913

Off Dist Engr
 to Govt, Madras

To the Secretary

Mr 1873
 No 11

The District Engineer

at the District Engineer's Office

at the District Engineer's Office

about 4th Dec 1913

No 95

Encl: none.

Regarding the notice
 to Engrs of the
 line of the Bernas
 Kullor Bridge on the
 Mangalore & Javara
 Road.

1110

15- Dist. Engineer

Dep. Secy to Govt

1110
15- Dist. Engineer
Dep. Secy to Govt
14/11/72

From
The offg. District Comm
S. Canara
To The Secretary to Govt
S. P. W.
Madras

Dated 5th December 1873
No 98

Encls/None

Erratum in Letter No 95
dated 4th Decr on the
subject of the destruction
of Permar Kullo's
Bridge on the Mangalore
V. Mercara Road
With an order

Ordered to be communicated to
District Engineer for general information

1110
15- Dist. Engineer
Dep. Secy to Govt
14/11/72

Ch. 6611
Govt. of 1874 Madras.
PUBLIC WORKS.

District Engineer

Dated

Recd.

Encl.

G. O. 12. 1874 Aug 14/8

Nos. 157 & 158

Bermakutta Bridge,

South Canara Dist.

Letter from the St. Suez
reporting the cause
of the destruction of
the bridge, Comd to
St. Suez for general
information.