

(1) Number of pages 8(2) Date of repair 13.10.47

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	2735	Press
		Mis.
440-441.		
Dated	20.9	18.6.47.

Not to be folded or roughly handled

[Handwritten signature]

*Proceedings of the Madras Government, Public Works Department,
20th September 1864.*

No. 440. Read the following letter from Captain J. BEAN, R. E., Officiating Superintending Engineer, 6th Division, to Major J. H. M. SHAW STEWART, R. E., Deputy Secretary to Government, Public Works Department, dated Tanjore, 5th September 1864, No. 1,314:—

SIR,

1. I have the honor to reply to the Order of Government, dated 20th August 1864, No. 2,396, paragraph 1, and to forward* a plan and sections of the lower Coleroon anicut and

bridge, south branch, showing the portion which was damaged last year and which had to be re-built.

2. As regards the cause of the accident, one or two reasons have been assigned for it: Lieutenant-Colonel Foord in his report to Government, dated 14th December 1863, No.

G. O. No. 3,796, dated 22nd December 1863.

1,374, having attributed the fall of the six arches to the gradual undermining of the foundations and consequent leakage through the work, which was assisted by the indifferent quality of some of the masonry. He was also of opinion that the damages could have been averted by a front retaining wall sunk on wells, but as I have already shown he was in error in supposing that such a wall did not exist, for it was built when the bridge was erected over the Anicut. Report No. 2,133, dated 15th March 1864, G. O. No. 1,030, dated 12th April 1864. Government in their order above, marginally quoted, attributed the accident in a great measure to the lateral scour in front of the work acting on a weak foundation and so undermining it.

3. There can be no doubt that leakage did take place through portions of the damaged work, where there is a set of the current, and especially at the sluices, though the wells in front have been said to be sunk ten feet below the bed of the river, and cut-stone aprons have been built. The three arches which fell in 1862 failed, as Lieutenant Mead believes, from the leakage through the sluices. The masonry of the fallen portion was not of the very best description throughout, and I have reason to believe that some of the wells in the extended part of the anicut, which was the portion that fell, were not sunk to their full depth. I may mention that precautions have been taken, as far as our means allowed, of filling in with stone at the sluices and elsewhere, and forming groynes.

4. The anicut was built on the section formerly adopted in Southern India. Brick masonry wells were sunk ten feet below the deep bed and filled in with brick cubes and concrete, solid work having been constructed for the upper four feet of brick in chunam. The body of the anicut is eight feet wide, and there is a step in the work of 3½ feet, the height having been divided into two portions 7½ in front and four feet in rear. There is a cut-stone and dressed laterite apron in rear 24 feet wide, the extremity supported on a retaining wall. When the bridge over the work was built, the floorings between the piers of laterite laid in chunam formed the front apron, which had a brick masonry retaining wall in line with the cut-waters sunk on wells to the same depth as the foundations of the body of the anicut.

No. 441. ORDER THEREON, 20th September 1864, No. 2,735.

1. Ordered that the foregoing report with its accompanying plans be forwarded to the Government of India.

2. With reference to paragraph 9 of the Superintending Engineer's letter recorded in G. O. No. 2,390, dated 20th August 1864, the Government desire to be informed of the extent of the injury caused to the recently restored sections of the anicut by the late floods. Captain Bean will report fully on the subject.

(True Extract.)

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Deputy Secretary to Government.

To the Superintending Engineer, 6th Division.
Exd. S. T. Augustin.

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PUBLIC WORKS DEPARTMENT.
Public.

FORT SAINT GEORGE,
20th September 1864.

No. 442.
From

No. 2,736.

MAJOR J. H. M. SHAW STEWART, R. E.,

Deputy Secretary to the Government of Fort Saint George, P.W.D.,

To

The Secretary to the Government of India, Public Works Department.

SIR,

With reference to paragraph 1 of my letter No. 2,397, dated 20th August 1864, I am directed by the Governor in Council to forward the annexed copy of a further report by the Officiating Superintending Engineer, 6th Division, on the fall, in December last, of a portion of the lower Coleroon anicut and bridge, accompanied by a plan and sections of the structure, showing the part which had to be re-built.

I have the honor to be,
Sir,
Your most obedient servant,

Major, R. E.,
Deputy Secretary to Government.

Ed. S. T. Augustin.

as the foundation of the body of
the "Ancient."

I have the honor to be
Sir,

Your most obedient servant

Yours
Capt. R. E.

Off: Sup: Engineer 6th Dec

202735 27 2735

Ordered that the foregoing
report, with its accompanying plans be forwarded
to the Government of India.

With reference to para 9 of the
Superintending Engineer's letter numbered in P.O.

Nov. 22	December	175-40564
12. 2d/Nov	14-	542
20. 2d/Nov	14-	282 283
20. 2d/Nov	14-	412-513 406
20. 2d/Nov	14-	424 3406

To The Supy Engineer: 6: Dⁿ

Chepauk
20th Sept. 1864
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July 1874 Cape
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Quoted 5/4
Dec 9 2004

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2040.441

2. 16th Sept 1864 - 27. 12th.