

(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.	200	Press
406-407		~~Mis.~~
Dated	19-1-	18 66

Not to be folded or roughly handled

[Signature]

1

*Proceedings of the Madras Government, Public Works Department,
19th January 1864.*

No. 403. Read the following letter from Captain E. A. FOORD, R. E., Superintending Engineer, 6th Division, to Colonel C. A. ORR, R. E., Secretary to Government, Public Works Department, dated Tanjore, 23rd December 1863, No. 1,423 :—

SIR,

1. In my letter of the 11th of July, No. 224, I reported that the bunds above the Kordachari bridge and the centrings of the arches had been carried away by a great flood. One arch was uncentred some time before the flood came. Two arches were completed, and enough of the centrings had been removed to prevent injury to the arches when the centrings were swept away. The remaining two arches had not been commenced, but the centrings had been completed and they were totally destroyed. I reported that this accident would only add about 400 Rupees to the cost of the bridge, as the bunds would not be required again, and it would only be necessary to re-build the centrings of the two remaining arches. The work however was carried on under such difficulties during the last month that it was in progress, that its cost considerably exceeded the Estimate, and the supplemental Estimate which I now forward for completing the bridge amounts to Rupees 1,879-13-0.

2. If the past season had been an ordinary one, the five arches, of which the bridge consists, might easily have been built by the 1st of May, but there was a succession of freshes in the river from the end of the north-east monsoon to the time of the usual freshes. The work was stopped three times by freshes, and was commenced a fourth time from a desire to complete it, and so connect a large tract of country to the north of the Vettar with the Railway station at Kordachari, and from a not unreasonable expectation that the ordinary freshes would be later than usual, as there had been so much rain in the early part of the year.

3. But, soon after the work was resumed, the river again filled, and at the time the work was stopped for the year, the flood was within a few inches of the height of that of November 1858, which caused so much damage in the Tanjore and Trichinopoly Districts. After the arches had been commenced, they could not be left in an unfinished state, and it was necessary to carry on the work in the face of all difficulties. The bunds had to be made of unusual height, and to be repaired and strengthened from time to time. It was necessary to construct the centrings very substantially, and as many as four at one time instead of two, as provided in the Estimate, and using the materials of the first two in constructing the next two. A foot bridge had to be constructed for the passage of workmen and materials to the arches, and from the whole bed of the river being covered with water there was no place for storing materials near the work, and the bricklayers and coolies worked at great disadvantage.

4. For these reasons most of the items of the Estimate have been exceeded, particularly that of centrings. As the water has only recently gone down sufficiently to allow of an inspection of the work and of the materials in the bed of the river a correct Estimate for completing the bridge could not be prepared earlier. The cost of completing the bridge is estimated at Rupees 3,612-3-3, and after deducting the value of materials in hand Rupees 1,732-6-3, there remains a sum of Rupees 1,879-13-0 for which sanction is now solicited.

No. 407.

ORDER THEREON, 19th January 1864, No. 200.

* G. O. No. 355.

was delayed by the restriction on expenditure in 1857; and on the 31st December 1861, a further

† G. O. No. 2,451.

‡ G. O. No. 2,193, 15th Sept. 1862.

1. The original Estimate for this work, Rupees 10,900, was sanctioned on* the 8th March 1856. The prosecution of the work sum of Rupees 1,050 was sanctioned† on the score of the original rates being insufficient. Subsequently, a sum of Rupees 1,650 was‡ sanctioned for forming approaches, which were not provided for in the original Estimate.

2. During the past season the work has suffered greatly from the frequent and untimely freshes in the river, and a supplemental Estimate of Rupees 2,330 was consequently sanctioned on§ the 20th July last. Before, however, this sanction could

§ G. O. No. 1,956.

take effect, another accident, involving considerable damage to the bridge works, was reported by the Superintending Engineer to have occurred on the 30th June, and he now forwards for sanction a further supplemental Estimate amounting to Rupees 1,880.

3. Captain Foord, represents that this large addition to the cost of the bridge has been caused by the unusual difficulties with which the Executive Engineer has had to contend. He states that there was a succession of freshes in the river during the whole of the last working season, and that, from anxiety to complete the bridge before the ordinary annual floods, the work, especially during June last, was carried on under great disadvantages, and at a cost which considerably exceeded the estimated rates.

**Proceedings of the Madras Government, Public Works Department,
19th January 1864.**

4. Under these circumstances, the Government has no alternative but to sanction the Estimate now before them. They trust that the work will now be soon finished. The necessary funds will be placed at the Superintending Engineer's disposal from the Reserve Fund for the current year.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Superintending Engineer, 6th Division.
" Accountant General.
" Controller and Auditor of Public Works Accounts.

Exd. S. T. Angustin.

Public Works Dept.

No 200

Proceedings of the Madras Government

Under date the 19th January 1864

Read the following
from the Supy Engineer 6th Div.

Forwarding a Supplemental
Estimate for completing Kodachan (Here enter 2^d December 1863) Bridge.

Rs. 355.

Rs. 2451.

Rs. 2196
Rs. left 62.

The original estimate for this work, Rs. 10900. was sanctioned on the 8th March 1856. The prosecution of the work was delayed by the restriction on expenditure in 1857, and on the 31st December 1861, a further sum of Rs. 1050. was sanctioned, on the score of the original rate being insufficient. ~~But~~ subsequently, a sum of Rs. 1650 was sanctioned for forming approaches, which were not provided for in the original estimate.

During the past season the work, ^{has} suffered greatly from the frequent & continually freshes in the river, and a supplemental estimate was consequently Rs. 2380.

Sanctioned on the 20th
July last. Before
knowing this sanction
could take effect; another
accident, involving
considerable damage to
the bridge works, was
reported by the Supt.
Engineer to have occurred
on the 30th June, and
he now forwards for
sanction a further
supplemental estimate
amounting to Rs. 1880.

Colonel Ford re-
presents that this
large addition to the
cost of the bridge has
been caused by the
unusual difficulties
with which the Exec.
Engineer has had to
contend. He states
that there was a
succession of freshets
on the river during
the whole of the last
working season, and
that, from anxiety to
complete ^{the bridge} before the ordinary
annual floods, the
work, especially during
June last, was carried

on under great
disadvantages, & at
a cost which considerably
exceeded the estimated
rates.

Under these cir-
cumstances, the Govt.
has no alternative but
to sanction the estimate
now before them. They
trust that the work will
now be soon finished.
The necessary funds will
be placed at the Supt.
Engineer's disposal
from the Reserve Fund
for the current year.

7 Dec 1880

To The Supt. Engineer, B. Division, H. B. Comp. ^{W. S.}
" Accountant General
" Controller & Auditor of
P. W. Accounts

X³

Recd P. 20th January

1277 1864 Duple

of No. of Great Britain

1200

No. of the British

2/19th Aug 1874

Supplemental

Estimate of 1864 1880

for the construction

of the New Zealand

bridge at Dunedin

at Dunedin