

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referee _____

MADRAS RECORD OFFICE.

Government of Madras.

DEPARTMENT.

G.O. No.	Press Misc.
Dated	18

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
12th September 1870.*

No. 182. Read the following letter from the Superintending Engineer, 6th Division, to the Secretary to Government, Public Works Department, dated Tanjore, 23rd August 1870, No. 428 :—

I HAVE the honour to enclose a plan and estimate for the restoration of the western wing and of a portion of the dam of the Tappadanavaly Dam across the Pamaniyaur, which were destroyed during the last north-east monsoon.

One abstract estimate, Rupees 3,500.
„ plan.

2. During the last north-east monsoon the rain in the Tanjore District was unusually heavy, and the waters of the Pamaniyaur, swollen by the drainage of a large area of country to the south of Tanjore and to the west of Munnargoody, rose to within two inches of the top of the parapet of the Tappadanavaly Dam destroying the wing and a portion of the dam.

About 270 square miles.

3. Owing to the transfer of the Range Officer in December, the occurrence of the breach was not reported to this office till March, and, as I was apprehensive that the dam would be entirely destroyed if it were left without a wing for a season, I directed the Range Officer to make immediate preparations for the supply of materials, and I prepared and submitted the enclosed plan and estimate to the Acting Collector on the 6th April. I had, in a personal interview with the Acting Collector, informed him of the accident to the dam, and having found that in 1863,

when certain repairs were executed to the dam, the Collector had stated that half the cost of the work would be defrayed from Chuttrum Funds, I proposed that half the cost of the present estimate should be defrayed in like manner from Chuttrum Funds as far the larger area dependent upon the dam consists of land belonging to a Chuttrum, and a water cess of only Rupee 1 per acre is levied on this land.

No. 118, 13th June.

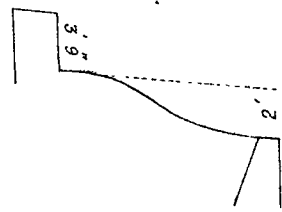
	V.	RS. A. P.
Government land ...	26½	Revenue 478 10 8
Chuttrum ...	199	„ 1,317 10 2

4. On my return to the division late last month finding that the estimate had not been returned, I called the Collector's attention to the subject, and in forwarding the estimate to me the Collector points out that, under the Order of G. O., No. 1,766, dated 20th August 1862, Government noted in the margin, no portion of the cost of the work should be defrayed from Chuttrum Funds; I beg, therefore, that a sum of Rupees 3,565 may be sanctioned for the work from the Reserve. The excess of Rupees 65 above the amount of the estimate is due to the fact that in executing the work it was found necessary to rebuild 22½ feet more of the dam than the estimate provided for, while savings were effected in the restoration of portions of the apron. The work has been so far completed as to place it beyond the risk of danger, and the plastering will have to be executed next season.

5. As this is the second accident which has occurred to the dam within the last ten or twelve years, and, in order that the new wing might not be built on the old

Proceedings of the Madras Government, Public Works Department,
12th September 1870.

foundations, I provided for the extension of the dam by about twenty feet; it is now 220 feet, which is about the width of the river in the reaches above the dam, the width of the river was formerly somewhat contracted at the site of the dam. The apron of the old work was built with a curve as shown in the margin, and as I have observed that the tendency of such curves is to cause action on the river bed immediately below the retaining wall, and as there were large holes in the bed below the apron, I have had the apron broken into two steps as shown in the section, the lower step being about one and three-fourth feet below the level of the proper bed of the river.



No. 183.

ORDER THEREON, 12th September 1870, No. 2,185.

IRRIGATION, No. 11.

THE Government sanction the repair of the Tappadanavaly Dam across the Pamaniyaur, in the Tanjore District, at a cost of Rupees 3,565, the expenditure being debited to Repairs, Agricultural, as it is observed that the work is properly chargeable to that head.

2. It seems probable that the river bed below the lower retaining wall will need some protection, and should this prove to be the case, this wall, and the wings for twelve feet on either side, should be supported by an outer apron nine feet wide of rough stone, cubes or concrete blocks whichever may be most easily and economically provided.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Superintending Engineer, 6th Division.
.. Chief Engineer for Irrigation.
.. Controller of Public Works Accounts.

Exd. E. C. Shunker.

Agricultural

Tanjore District

Improvement

No 5 Range. Pattavastah Taluq

Abstract Estimate No 11870-71

Work

Extending the Dam and Rebuilding the ruined Wings on the North West side of the Tappadanavaly Dam across the Pamaniyaur and repairing Apron.

Quantity	Description of Charges	Rate	Amount	Amount of each part
13876 9/8	Cubic feet Brick in Churnam at	26	2108 3 6	
766 1/2	Sq ft Plastering at	2 8	191 8 6	
31 2	Cy ft Granite Stones at	2 1	63 ..	
127 3	Cy ft Excavating four dation & filling in	2	242 7 ..	
2880	Sq ft Embankment at	1 3	225 ..	
	Baling		300 ..	
	Surveys and Contingencies		309 13 2	

Total Estimate Rupees 3500 ..

Sup Engg Office 6th Divn
Tanjore 6th April 1870

H. F. Gate Captain No.
Sup Engg Office 6th Divn

G. E. Morris
Collector
20-8-70

No 428. Supt Engineer's Office 6th Div
Tanjore 23rd August 1870.

From
Captain H. F. Baker. R.E.
Superintending Engineer
6th Division
To
Colonel C. A. Corrie. R.E.
Secretary to Government
P. W. D.

I enclose
1. Estimate for
the work of Rs 3500.
I have the honor to enclose
a Plan and Estimate for the restoration
of the Western wing and of a
portion of the Dam of the Tappan
Lancivaly Dam across the Pamaniyan
which were destroyed during the
last N. E. Monsoon in 1869.
During the last N. E.
Monsoon, the rain in the Tanjore
District was unusually heavy
and the waters of the Pamaniyan
swollen by the drainage of a
large area of country to the
South of Tanjore and to the west
of Manargoody rose to within 2"
of

Enclosure in letter
from the Supt Engineer
to the Secy
to Govt P. W. D. No 428.
dated 23rd August 1870.

Approved
11/10

Estimate Rs 3500 for
restoring the Dam and
rebuilding the wing
on the N. W. side
of the Tappan
Dam, and restoring
the

of the top of the parapet of the
Tappadanaval Dam, destroying
the wing and a portion of the Dam.

Owing to the transfer of the
Range Officer in December, the
occurrence of the Breach was not
reported to this Office till March
and as I was apprehensive that
the Dam would be entirely des-
troyed if it were left without a
wing for a season, I directed
the Range Officer to make im-
mediate preparations for the supply
of materials and I prepared and
submitted the enclosed Plan and
Estimate to the Acting Collector
on the 6th April. I had in a
personal interview with the Acting
Collector informed him of the
accident to the Dam and having
found that in 1863 when certain
pairs were executed to the Dam,
the Collector had stated that half
the cost of the work would be de-
frayed from Chitturam Funds. I
proposed that half the cost of the
present Estimate should be defrayed

in like manner from Chitturam Funds
as far as the larger area
dependent upon the
Dam consists of
land belonging to a
Chitturam and a water cess of only
Rs. 1 per acre is levied on this land.
On my return to the Division
late last month, finding that the Es-
timate had not been returned, I
called the Collector's attention to
the subject, and in forwarding the Es-
timate to me the Collector pointed
out that under the order of Govern-
ment noted in the margin no
portion of the cost of the work
should be defrayed from Chitturam
Funds, I beg therefore that a sum
of Rs 3565 may be sanctioned
for the work from the Reserve -
The excess of Rs 65 above the amount
of the Estimate is due to the fact
that in executing the work it was
found necessary to rebuild 22 1/2
more of the Dam than the Estimate
provided for while savings were
effected in the restoration of portions
of

of the Apron. The work has been
so far completed as to place it
beyond the risk of danger and
the plastering will have to be
executed next season.

As this is the second acci-
dent which has occurred to the
Dam within the last 10 or 12 years
and in order that the new wing
might not be built on the old
foundations, I provided for the
extension of the Dam by about
20', it is now 220' which is about
the width of the River in the
reaches above the Dam. The width
of the River was formerly somewhat
contracted at the site of the Dam.
The Apron of the
old work was
built with a
curve as shown
in the margin
and as I have observed that the
tendency of such curves is to
cause action on the River bed
immediately below the retaining
wall and as there were large holes
in

in the bed below the Apron, I
have had the Apron broken into
two steps as shown in the Section
the lower step being about $1\frac{3}{4}$ '
below the level of the proper level
of the River.

I have the honor to be
Sir,
Your most obedient servant
J. H. Bates Captain R.E.
Sub Engineer

11
 P.M.D.
 No. 2185
 Proceedings of the Madras Govt.
 Read the following:

From the Engineer of the
 S. P. R. No. 428 of 23rd Aug 1885
 1- Divn - 3

The Government
 sanction the repair
 of the Tappadaniyal
 dam across the
 Pananiyann, in
 the Tanjore District,
 at a cost of Rupees
 3565, the expenditure
 being debited to repairs
 Agricultural, as it is
 observed that the work
 is properly chargeable
 to that head. It

11/15/85
 The Engineer
 No. 428 of 23rd Aug 1885
 1- Divn - 3

To the Secy to Govt
 P.M.D.

Recd 26th August 1885.

No. 428

Enclosures

It is sanctioned
 Rs 3500 for repairing
 the dam and rebuilding
 the ruined wings on the
 N.W. side of the dam.
 The dam is situated
 in the Pananiyann
 District, Tanjore
 No. 428 of 23rd Aug 1885

Original in the file

20-21/85 - 12-16/85
 20-21/85 - 12-16/85

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2. It seems pro-
 bable that the river
 bed below the lower
 retaining wall will need
 some protection, and
 should this prove to be
 the case, this wall,
 and the wings for 12
 feet on either side,
 should be supported
 by an outer apron 9
 feet wide of rough
 stone, cubes or con-
 crete blocks whichever
 may be most
 easily

easily and economically
 provided

29/8/20

Ab.

27
 4

- 70 The S. Engr 6" du
- 6 Chief Eng Insp.
- 3 Chief Eng Insp.
- 5 - Contd. 1st.

29/8/20

C/23352

Govt. of Madras.

PUBLIC WORKS.

The Superintending Engr.
1st Division

Dated

Recd.

2

G. O. 12 Sept. 1885

For 182-183

Tappadanavalay dam across
the Peranniyar in the Tanjore
District. The estimate of Rs.
3,565 for repairing the
Tappadanavalay dam across
the Peranniyar in the
Tanjore District, sanctioned
with remarks.