

(1) Number of pages 16
(2) Date of repair 28. 1. 87
(3) Initials of the Referencer low ✓

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works

DEPARTMENT

G.O. No.	2509	W	Press.
B.P. No.			Mis.
Dated	14. 10. 1887		197.

Not to be folded or roughly handled

2509

2509

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

14th October 1881, No. 2509 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 40. From Major R. R. E. DRAKE-BROCKMAN, R.E., Executive Engineer, Buckingham Canal Division, to the Chief Engineer, Public Works Department, dated Camp, Kodoor, 24th September 1881, No. 1,818.

I HAVE the honor to forward, for the sanction of Government, a supplemental estimate for Rs. 1,420 for carrying out some additional work to the Pennér cross bank sanctioned for execution in G.O., No. 2,494 W., dated 29th October 1880, and registered as Provincial No. 44 B. for Rs. 5,770 for last official year.

About ten days ago I received a sudden intimation from Mr. Supervisor Bond, in charge of the northern sub-division of this canal, that the floods which came down the Pennér on the 31st ultimo, although registering only 6.40 on the river gauge, had risen to within 4 feet of the crest of the cross bund, whereas the crest of this bund had been originally laid out at 4 feet above the M.F.L. of 9.30 on that gauge.

The thought struck me, that in calculating the level, to which this cross bank which is about $1\frac{1}{2}$ miles further up the river than the position of the gauge on which the flood readings were recorded, the surface fall of the river when in flood had not been taken into account in the preparation of the original plan and estimate. A reference to Mr. Ottmann, who had prepared this estimate under Captain Awdry's orders, confirmed my supposition. Mr. Ottmann states that in the hurry of preparing the project this most important item in its investigation had been overlooked.

I inspected the cross bund yesterday and find that Mr. Bond's statements are borne out by facts, and I have accordingly ordered him to proceed with the additional work detailed in the accompanying estimate in order to ensure the safety of the embankment in anticipation of sanction, as the work is imperatively necessary and its execution cannot be delayed in the face of the coming north-east monsoon.

It will be noticed that I have altered the slopes of the superadded portion of embankment. I have done this with a view to minimise the cost. The estimate if framed on the basis of the present slopes would amount to 3,300 rupees, inasmuch as the addition to the embankment will rest on an already consolidated bank and will be above M.F.L. of the river in front of the embankment, the alteration in the slope may, I submit, be allowed.

The longitudinal and cross sections of the originally sanctioned embankment are herewith sent for reference.

2 PUBLIC WORKS DEPARTMENT, 14TH OCTOBER 1881, No. 2509 W.

No. 41. ORDER THEREON, 14th October 1881, No. 2509 W.

THE revised estimate, amounting to Rs. 7,190, for raising a bund across the head of the north branch of the Pennér river is sanctioned in connection with the Buckingham canal.

2. This sanction has been registered as Provincial No. 81 W. of 1881-82 and classified as 33, Irrigation and Navigation, Works for which Capital and Revenue Accounts are kept, Capital, Works. Provincial No. 44 B. of 1880-81 is cancelled.

(True Extract.)

Major, R.E.,
Under Secy. to Govt., P.W.D.

To the Superintendent of Works, Buckingham Canal, with three enclosures.
„ Examiner of Public Works Accounts, with duplicate Abstract Estimate.
„ Chief Engineer for Irrigation.

Exd. S. T. Austin.
Spare Copies

2509
2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1881) Madras.

PUBLIC WORKS.

To

THE SUPERINTENDENT OF WORKS,
BUCKINGHAM CANAL.

&c., &c., &c.

Dated October, 14th.

Issued

Recd.

Encl.

G. O., 14th October 1881, No. 2509 W.

OCTOBER.

Nos. 40-41.

Bund across the head of the north branch
of the Pennér River.—The revised estimate
for raising a — in connection with the
Buckingham Canal, sanctioned.

P. W. DEPARTMENT—1881-82.

MEMORANDUM.

8509/3

Current No. 5652.

Letter Number 1818.

dated the 24th September 1881.

from the Supg. Engineer of Works,
Buckingham Canal.

Vote of Remuneration.

The Supplemental Abstract
Estimate with report of Cross
Sections for raising bund across
head of North Branch of
Pennér River, in connection
with the Buckingham Canal,
amounts to Rs 1420.

The Original Estimate of
Rs 5770 was sanctioned G.O.
No. 2494, dated 29th October 1880.
The total amount now estima-
ted is Rs. 7170.

The present Estimate pro-
vides for raising the bank to
4.50 ft. above present top level.
Compensation for land in
No. 20 has been included in the
Estimate.

Contingencies charged at
8 per Cent.

5th October 1881.

C. No. 5652

25/4
P. W. Secretariat.

Note by Budget Section.

Work

Remarks and References.

Raising bund
across head of North
Branch of Pennair
River

Fund. Provincial / 33 Irrigation and Navigation

Service Head Works for which Capital & Rev. Accounts are kept

Departmental Head Capital Works

Amount of estimate Rs. 7190.

Expenditure in previous year 2262

Allotment in current year 3508

Balance required to complete 1420

Total Rs. 7190

Note of available funds.

The Supd of Works Buckingham Canal
does not apply for funds. It is probable
that the extra amount required will
be provided from the allotment for
the Buckingham Canal.

6/10/81

Budget Clerk.

of the
for raisi
Buckingha

Note by Budget

No. 1818

250/4

OFFICE OF THE SUPERINTENDENT OF WORKS,

BUCKINGHAM CANAL,

Camp. Kodoor 24 September 1881.

Sept 30th — do —

From

THE SUPERINTENDENT OF WORKS,

BUCKINGHAM CANAL,

To

THE CHIEF ENGINEER,

PUBLIC WORKS DEPARTMENT,

Madras.

SIR,

Enclosure. 3

1. Plan of Section
1. Abstract Estimate in duplicate
1. Specification Report

I have the honor to forward for the sanction of Government a supplemental estimate for Rs. 1420 for carrying out some additional work to the Pannair Cross Bank sanctioned for execution in G.O. No. 2494 W dated 29th October 1880 and registered as Provincial No. 44-B for Rs. 5740 for last Official year.

About 10 days ago I received a sudden intimation from Mr. Supervisor Bond in charge of the Northern Sub Division of this Canal that the floods which came down the Pannair in the 31st ultimo although registering only 6.40 on the

ASB 1/10

Cre. 10.10.81 To 12.10.81.

the river gauge had risen to within 4 feet of the Crest of the Cross bund, whereas the crest of this bund had been originally laid out at 4' above the M. S. L. of 9.30 on that gauge. —

The thought struck me that in calculating the level to which this cross bank which is about $1\frac{1}{2}$ mile further up the river than the position of the gauge on which the flood readings were recorded, the surface fall of the river when in flood had not been taken into account in the preparation of the original plan & estimate. A reference to Mr. Ottum, who had prepared this estimate under Captain Awdry's orders confirmed my supposition. Mr. Ottum states that in the hurry of preparing the Project this most important item in its investigation had been overlooked.

I inspected the Cross bund yesterday and find that Mr. Boud's statements are borne out by facts and have accordingly ordered him to proceed with the additional work detailed in the accompanying estimate in

2009/8

in order to ensure the safety of the embankment in anticipation of sanction, as the work is imperatively necessary and its execution cannot be delayed in the face of the coming north east monsoon. —

It will be noticed that I have altered the slopes of the Superadded portion of embankment. I have done this with a view to minimise the cost. The estimate if framed on the basis of the present slopes would amount to 3,300 Rs. Inasmuch as the addition to the embankment will rest on an already consolidated bank and will be above M. S. L. of the river in front of the embankment the alteration in the slope may I submit be allowed.

The longitudinal & cross sections of the originally sanctioned embankment are herewith sent for reference. —

I have the honour to be
Your most obedient servant
Frederick - Brehma, Major &
S. E. Engineer. B. C. S.

G.O. No 2494 W. 27/29.10.80 Orig.

From
THE SUPERINTENDENT OF WORKS,
BUCKINGHAM CANAL,

To
THE CHIEF ENGINEER,
PUBLIC WORKS DEPARTMENT,
Madras.

Dated 24th September 1881.
Deskd 30th do.
No. 1818

ENCLOSURE 3

Raising bund across
head of north branch of
Pennair river.

Submitting for sanction
a Supplemental Estimate
amounting to Rs 1420
for —

Alb 1/10

Cms. 10-10-81 Rto 12-10-81

10-10-81 12-10-81 12-10-81

28/9

No 2509 W PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 14th Oct 1881.

Read the following:—

the Supt. of Works }
the Buckingham Canal } T.F. No 1818 dated 24th
Sept 1881.

The revised estimate
amounting to Rs 7190 for
raising a bund across the
head of the north branch
of the Pennair river is
sanctioned in connection
with the Buckingham
Canal.

2. This sanction has been
registered as Provincial
No 81 W of 1881-82 and
classified as 33 irrigation
and navigation, works for
which Capital and Revenue
Accounts are kept, Capital,
Works. Provincial No 2

The Little ...

44 B of 1880-81 is can-
celled.

u

L 7/6

M.H.

10/10/81

*Supts of ... B Canal
with 3 Encls.*

*For Two Accts with Dub.
at Etc.*

Chief Clerk for ...

21-10-81

AL 7/10

Enc. 10 10 81 At. 12-10 81.

Q. 7-10-81 M. 12-10-81

250^a/₈

C. N. 5652.

Govt. of (1881) Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O., 14th Oct. 1881, No. 2509 W

Nos. 40647

Bridge across the head of
the north branch of the
Pennair river. The revised
estimate for raising and
in connection with the
Buckingham Canal,
sanctioned.

Entd. in Receipt Reg.