

(1) Number of pages 18
 (2) Date of repair Nov 1986
 (3) Initials of the Referencer low

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W DEPARTMENT

G.O. No.	1407 W	Press.
B.P. No.		Mis.
Dated	16-6-1980	197

M-5
Not to be folded or roughly handled

1407

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

16th June 1880, No. 1,407 W.

Buildings and Roads.
Civil Works.

Read the following paper :—

No. 36. From Captain A. AWDRY, R.E., Superintendent of Works, Buckingham Canal, to the Chief Engineer, Public Works Department, dated 31st May 1880, No. 709.

I HAVE the honor, in continuation of my No. 4,114 of 13th March 1880, to forward herewith an estimate, amounting to Rs. 15,550, for partially protecting the reach of the Buckingham Canal 16 miles $3\frac{1}{2}$ furlongs in length (from the

$\frac{4}{3}$ to $\frac{6}{3}$ miles), which suffered much during the cyclone of November 1879 from having its western bank washed into it by the wash of the waves of the backwater during the cyclone.

2. The reach opposite cusbah from $\frac{4}{3}$ to $\frac{6}{3}$, having very much the same section of bank as now proposed, did not suffer much, the storm wave having risen over the bank quietly and not having done it much damage. The bank therefore is being made with its top 3.50 above M.S.L. and 10 feet wide with slopes of 4 to 1 and 6 to 1 towards the canal and lake respectively, the former being planted and the latter not (so as to admit of additions hereafter for isolation). The berm between the canal and the bank is 15 feet wide.

3. I have the honor to request sanction to this estimate of Rs. 15,550 and an allotment of the amount from the grant of Rs. 1,20,000 for the current year if separate funds are not available. The work is in progress, and will provide a bank which, while it will protect the canal from the wash of ordinary winds on the Pulicat lake, will admit of a heavy storm wave passing over it without washing it into the canal.

4. The storm wave of November 1879 rose to 5.30 feet above M.S.L. at the Toll Office at Royadoroovoo at the 59th milestone; the flood-marks are very distinct, and were very carefully noted at the time. To isolate this reach from all risk of being swept over by a flood, it will therefore be necessary to raise the top of the embankment to 8.30 feet above M.S.L. with its east slope 4 to 1 in continuation of the east slope of the lower bank now in course of formation, its top width 6 feet and western slope 6 to 1. Both slopes being planted over with "rabbit wort" or "yeela," the seeds of these and other saline plants are being collected and will be tried on several considerable areas of the bank to test which is best. Turfing would be too costly, and the soil having no fresh water in it would not admit of its growing.

5. The work to be done and estimate for this addition to the low bank being made at present is also shown in a cross section and a footnote to the other estimate, as it is merely an addition to it of uniform area and length. This estimate amounts to Rs. 91,050, and provides (with the Rs. 15,550 now in progress) for the complete isolation of that portion of the reach from 45 M. to 68 M. (alluded to in paragraph 19 of Appendix to G.O., No. 284 W., of 6th February 1880) which lies between the $\frac{4}{3}$ and $\frac{6}{3}$ miles.

6. For the southern portion of this reach—extending to Zonangipolem at $\frac{4.3}{v}$ —the bank must be made up by material brought across the canal, for the outside is always under water; an estimate is now being prepared for this; for the northern portion up to about the 68th milestone I have just examined the ground so as to carry the line along the west shore of the backwater to the south bank of the Dugarápatnam drainage; the line is very suitable and, as soon as the survey and sections of it are ready, an estimate will be framed for it.

7. From Zonangipolem to Koramandel I have also examined the ground and found it very suitable for the deviations suggested in your paragraphs 15 to 17, and the surveys, sections, and estimates will be put in hand very shortly, thereby completing the whole section from Koramandel (27 M) to the Dugarápatnam drainage at (68 M).

No. 37.

ORDER THEREON, 16th June 1880, No. 1,407 W.

THE estimate, amounting to Rs. 15,550, for partially protecting the reach of the Buckingham Canal from $\frac{4.6}{m}$ to $\frac{6.2}{vib}$ M, is sanctioned for execution from the grant of Rs. 1,20,000 for the current year. The Government attach great importance to stopping the wash along this portion of the canal from the Pulicat lake.

2. Should the Government of India approve the principle of isolating each reach of the canal, the proposed embankment will form a nucleus for the construction of the high western embankment capable of excluding all flood.

3. The work should be prosecuted without delay.

4. The surveys and estimate for the deviation to the south, mentioned in the 7th paragraph of Captain Awdry's letter, will be awaited.

5. The sanction accorded in these Proceedings has been registered as Provincial No. 8 B. of 1880-81.

(True Extract.)

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

To the Superintendent of Works, Buckingham Canal.
" Examiner of Public Works Accounts.

BUILDINGS AND ROADS.
CIVIL WORKS.

Gobt. of (1880) Madras.
PUBLIC WORKS.

To
THE SUPERINTENDENT OF WORKS,
BUCKINGHAM CANAL,
&c., &c., &c.

Dated June, 16th.

Issued

Recd.

Encl.

G. O., 16th June 1880, No. 1,407 W.

JUNE.
Nos. 36-37.

Buckingham Canal.—Estimate for constructing embankments on the west side of the — from $\frac{4.6}{mi}$ to $\frac{6.2}{mi}$ miles, sanctioned with remarks.

N. 709.

Office of Superintendent of Works
Buckingham Canal
31st May 1880.

From,
The Superintendent of Works
Buckingham Canal

To,
The Chief Engineer
Public Works Department
Chennai.

Enclosure
Longitudinal Section
in Sheet
Cross section do do
Estimate.

Sir,
I have the honor in continuation of my letter of 13th March 1880— to forward herewith an estimate amounting to Rs 15,550 for partially protecting the reach of the Buckingham Canal 16 miles $3\frac{1}{2}$ furlongs in length (from the $\frac{4.6}{mi}$ to $\frac{6.2}{mi}$ miles) which suffered much during the cyclone of November 1879 from having its western Bank washed into it by the wash of the waves of the Backwater during the cyclone.

2. The reach opposite Gushab from $\frac{4.3}{mi}$ to $\frac{4.6}{mi}$ having very much the same section of Bank as now proposed did not suffer much the storm wave having given

Over the bank quietly and not having done
it much damage. The bank therefore is
being made with its top 3.50 above M.S.L.
and 10 feet wide with slopes of 1 to 1 and 6 to 1
towards the canal and Lake respectively the
former being planted and the latter not
(so as to admit of additions hereafter for
isolation). The berm between the canal
and the Bank is 15 feet wide.

3. I have the honor to request
sanction to this estimate of Rs 15,550 and
an allotment of the amount from the
grant of Rs 12,000 for the current year if
separate funds are not available. The work
is in progress and will provide a bank which
while it will protect the canal from the
wash of ordinary winds over the Paricat Lake
will admit of a heavy storm wave passing over
it without washing it into the canal.

4. The storm wave of December 1879
rose to 5.30 feet above M.S.L. at the toll office
at Rajadonoo at the 59th milestone, the
flood marks are very distinct and were
very carefully noted at the time. To isolate
this reach from all risk of being swept

5. ⁵
Once by a flood it will therefore be necessary
to raise the top of the embankment to 8.30 feet
above M.S.L. with its East slope 4 to 1 in continuation
of the East slope of the lower bank now in
course of formation, its top width 6 feet
and western slope 6 to 1. Both slopes being
planted over with 'rabbit root' or 'yeels';
the seeds of these and other saline plants are being
collected and will be sown on several considerable
areas of the bank to test which is best. Turfing
would be too costly and the soil having no
fresh water in it would not admit of its
growing.

5. The work to be done and estimate for
this addition to the low bank being made at
present is also shown, in a cross section and
a fast note to the other estimate, as it is
merely an addition to it, of uniform area
and length. This estimate amounts to Rs
91,050 and provides (with the Rs 15,550 now
in progress) for the complete isolation of that
portion of the reach from 46 M to 68 M (alluded
to in para 19 of appendix to G.O. No 286, W
of 6th February 1880) which lies between the
 $\frac{46}{111}$ and $\frac{62}{112}$ miles

6 For the southern portion of this reach - extending to Kanangipilem at $\frac{43}{5}$ - the bank must be made up by material brought across the canal for the outside is always under water, an estimate is now being prepared for this; for the northern portion up to about the 68th mile. I have just examined the ground so as to carry the line along the west shore of the Backwater to the south bank of the Dugaragapatan drainage, the line is very suitable and as soon as the survey and sections of it are ready an estimate will be framed for it.

7 From Kanangipilem to Karamandel I have also examined the ground and found it very suitable for the deviations suggested in your paras 15 to 17, and the survey, sections, and Estimates will be put in hand very shortly thereby completing the whole section from Karamandel (27th M) to the Dugaragapatan drainage at (68th M).

I have the honor to be
Your most obedient Servant
A. CROFT
Superintendent of Works &c. Canal

G.O. No. 254 Waf 6-2-80
H. H. P. of above.
Memo 865-16.3.80

From

The Superintendent of Works,
P.W.D.
Buckingham Canal.

4 JUN 80

To

No

3600

The Chief Engineer
P.W. Department

Dated 31st May 1880.
Despatch 3rd June 1880
No. 709.

ENCLOSURE 25

Estimate for protecting
certain reach of the
Buckingham Canal
Rs 15,550—
Requests sanction
and allotment
of funds for the—

cir 12.6.80. Retd 14.6.80-
6-9-80 A. H. H.

P. W. SECRETARIAT-1879-80.

KEEP WITH.

Current No. 3600.

Letter No. 709.

Dated the 31st May 1880.

from the Supdt. of Works
Buckingham Canal

Note of Remarks.

The Detail & Abstract
Estimates with Sections, for
Constructing Embankment
on the West Side of the Buck-
ingham Canal from 46th Mile
3 furlongs to 62 miles 6³/₄ furlongs
(distance 16 miles 3³/₄ furlongs)
Amounting to Rs 15550- have
been examined & found correct.

The Rates could not be as-
sessed, as data has been furnished.

The Embankment if the
as proposed by the Chief Engr. is
to isolate the reach from flood
which case the bank is below
Computed with 6 ft top width
same slopes & the height 8
ft over M.S.L. the storm
cyclone flood height has
been 5.30 ft above M.S.L.
3 ft being allowed over flood
line - would cost Rs. 91000.

8th June 1880.

W. For orders

No. 14098.

7/1407

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 16th June/80.

Read the following :-

From the Supt. of Works
Buckingham Canal (H.E. No 709 of 31st May/80)

The estimate,
amounting to Rs. 15,550,
for partially protecting
the reach of the Buck-
ingham Canal from
 $\frac{46}{111}$ to $\frac{62}{111}$ M., is sanc-
tioned for execution
from the grant of
Rs 1,20,000 for the cur-
rent year. The
Government attach
great importance
to stopping the wash
along this portion
of the Canal from

12/6

14/6

the Pulicat lake

2. Should the Govt. of India approve the principle of isolating each reach of the canal, the proposed embankment will form a nucleus ^{for the construction of} the high western embankment capable of excluding all flood

3. The work should be prosecuted without delay.

4. The surveys and estimates ^{for} the deviation to the south, mentioned

8/10/80

in the 7th paragraph of Capt. Audry's letter, will be awaited.

Att

12/6/80

The sanction accorded in these Proceedings has been registered as Provincial No. 818 of 1880-81-

9/11/80

Supt. of Works
Buckingham Canal with 4 enclos
by Mr. Cant with etc. 22/10
1-7-80

3600
Govt. of (1880) Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O. *H. P. M.* 1880, No. 1407 *W.*

Nos. 36-37

Bristolham and

Estimate for
Carriage: Embankments
On the West side of
the — from $\frac{46}{111}$ to $\frac{62}{111}$
miles sanctioned
with remarks.

$\frac{36}{111}$