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*Proceedings of the Madras Government, Public Works Department,
9th April 1875.*

No. 184. Read the following letter from Major J. N. HUNTER, R.E., District Engineer, Salem, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Camp at Veyloor, 9th March 1875, No. 224 :—

With reference to your No. 454, dated 17th February 1875, I have the honor to forward a report received from the officer in charge of the Oosoor Range regarding the escape channel from the Jegoor tank.

2. It will be seen from the above that the tank surplusing is no new event ; but it happened that the quantity of water passing over the weir in the past season was exceptionally great, and caused noticeable damage, which never appears to have occurred before, as no application for a new surplus channel has been received up to the present time.

3. I have directed the Oosoor Range Officer to send in an estimate for excavating a channel of the dimensions noted in the last paragraph of his report.

From Captain H. BAILEY, Executive Engineer, to Major J. N. HUNTER, R.E., District Engineer, Salem, dated Kistnagherry, 1st March 1875, No. 1,948.

With reference to your endorsement, No. 1,009, of 24th, in G. O., No. 454, of the 17th ultimo, I have the honor to state that the calingulah of the Jegoor tank having been repaired last year made no difference in the quantity of water which had to pass down the surplus channel.

2. So far as I can learn no application was made by the late Remount Agent to have the channel enlarged ; and under these circumstances this department had no reason to move in the matter, as it was only reasonable to suppose that if injury to crop had previously occurred the Remount Agent would have brought it to notice.

3. There can be no doubt that the land must have been flooded occasionally ; but I presume that these floods were not of sufficient duration to injure the crop, and that the injury last year was due to the unusually heavy and continued rain.

4. When I inspected the tank last month, I found that a line of levels had been taken by Mr. West's orders ; this shows the fall of the channel to be about 25 feet per mile ; but as the slope of the upper part is much greater than it is lower down, one large enough to discharge the surplus water at that fall would not be sufficient.

5. The present channel runs along the bottom of the valley and through the best of the land. I think, therefore, that it would be better to cut a new channel along the high ground to the north, as by doing this the flood water would be kept entirely away from the cultivated ground.

6. The calingulah is 70 feet long, and the discharge over it, with 3 feet head of water, 1,274 feet per second : for this a channel of 40 feet wide and 4 feet deep would be required ; but as such a discharge is likely to be very unusual, I think that if one sufficient to carry off the discharge with a 2 feet head of water were dug, and the earth from it placed in the lower side, it would be sufficient, as although the embankment would not stand a continual current of water passing along it, I have no doubt it would where the water merely rose to that height for an hour or two occasionally.

7. With 2 feet head of water the discharge would be 693 feet per second ; for this a channel 24 feet broad and 4 feet deep would be required, and the cost of it be between 800 and 1,000 Rupees, according to the distance it may be found necessary to carry the channel below the depot land to prevent the backwater in the small channel lower down flooding it,

Proceedings of the Madras Government, Public Works Department,
9th April 1875.

No. 185.

ORDER THEREON, 9th April 1875, No. 942.

IRRIGATION, No. 21.

COMMUNICATED to the Military
Department with reference to G. O.,
No. 412, dated 25th January 1875; the
estimate from the District Engineer, Salem, will be awaited.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Military Department.

.. District Engineer, Salem.

.. Chief Engineer for Irrigation.

Exd. S. T. Austin.

Spare Copies

Executive Engineer's Office Puttaperumal 21st March/75
N^o 1948.

From

Captain H. Bailey,
Executive Engineer.

To

Major J. V. Hunter R.E.,
District Engineer, Salem.

Sir,

With reference to your endorsement
N^o 1009 of 24th in G. O. N^o 454 of the 17th
Ultimo, I have the honor to state that the
balancing of the Jegoor Tamb, having been
repaired last year, made no difference in
the quantity of water which had to pass
down the surplus channel.

So far as I can learn, no application
was made by the late Revenue Agent to
have the channel enlarged; and under
these circumstances this Department had
no reason to move in the matter, as
it was only reasonable to suppose that
if injury to crop had previously occurred,
the Revenue Agent would have brought
it to notice.

There can be no doubt that the
land must have been flooded occasionally,
but I presume that these floods were
not of sufficient duration to injure the
crop

crop, and that the injury last year was due to the immenely heavy and continued rain.

When I inspected the Tault last month, I found that a line of levels had been taken by Mr. West's Orders, this shows the fall of the channel to be about 25 feet per mile; but as the slope of the upper part is much greater than it is lower down, one large enough to discharge the surplus water at that fall would not be sufficient.

The present channel runs along the bottom of the valley and through the feet of the land. I think therefore that it would be better to cut a new channel along the high ground to the north, as by doing this, the flood water would be kept entirely away from the cultivated ground.

The balingulab is 70 feet long, and the discharge over it with 3 feet head of water, 1244 feet per second; for this, a channel of 40 feet wide and 4 feet deep would be required, but as such a discharge is likely to be very unusual, I think that if one sufficient to carry off the discharge with a 2 feet head of water were dug, and the earth from

from it placed in the lower side, it would be sufficient; as altho' the embankment would not stand a continual current of water passing along it, I have no doubt it would where the water merely rose to that height for an hour or two occasionally.

With 2 feet head of water, the discharge would be 693 feet per second; for this, a channel 24 feet broad & 4 feet deep would be required, and the cost of it be between 800 and 1000 Rs., according to the distance it may be found necessary to carry the channel below the Depot Camp to prevent the back water in the small channel lower down flooding it.

I have &c.

/Signed/ H. Bailey Captain,
Executive Engineer.

/True copy/

J. W. Steele Major R.E.,
District Engineer.

Recd.

No. 224 District Engineer's Office
Camp Vellore 9th March 1875.

From The District Engineer,
Salem.

To The Secretary to Government
Public Works Department.

Sir,

Enclosure 1
Letter.

With reference to your No. 1154 dated 17th February 1875, I have the honor to forward a report received from the Officer in charge of the Coosoor Range regarding the escape channel from the Jegoor Tank.

2. It will be seen from the above that the Tank overflowing is no new event; but it happened that the quantity of water passing over the weir in the past season was exceptionally great, and caused noticeable damage, which never appears to have occurred before, as no application for a new surplus channel has been received up to the present time.

3. I have directed the Coosoor Range Officer to send in an estimate for

Enclosure No. 1
in a letter from
the District Engineer
of Salem No. 224
9th March 1875.

Mr 1916/75

for excavating a channel of the dimensions noted in the last para of his report.

I have the honor to be,

Sir,

Your most Obedient Servant.

J. W. Steele, Major &c.,
District Engineer.

✓ 17/10

7.6

William

Date

W. A. R. S. S.

Recd.

Encl.

U. S. National Archives
1875, No. 942

112-185

Capt. - The admiral,
from the Quilt Regt;
I leave for excavating
a Channel, running

20/10 - Letter from the

Don't forget forwarding
me from the Boston office

Office Reporting that
the

the top of —
Debat' Farm Gardens

not attributable to the
product of the O.M.D.

of the Military

Dr. John A. Smith
Dr. J. G. Adams
Dr. J. H. Smith

0-4-75

56/9/67

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with reference to R. O. Keight
1893. The estimate from
Latham will be inserted -

Litany Department
12, dated 25th January
the District Engineer

P. W. 1875
From 8. 14

10:15
District Judge

of Salem

the necessity to

Wm. H. H. H.

dated 9th March
Recd. 1/53

8-224
Endowed!

Chas. Johnson

Copy of letter from

the person I am
offering her to

that the laws of

cross in the sky.

various species of
attribution to the

infect the soil.

[illegible]