No. 456. Read the following endorsement of the Chief Engineer for Irrigation, dated Camp at Chennapenputty, 2nd December 1874, No. 999-A :—

From Colonel E. A. FOORD, R.E., Superintending Engineer, Bellary, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Bellary, 23rd November 1874, No. 1,412.

I HAVE the honor to report the occurrence of damage to the under-mentioned tanks during the heavy rains of October last :—

Singanamalla Tank.—Water in this tank rose to 4½ feet above the calingulah level on the 25th ultimo, which led to the breaching of the calingulah to an average length of 110 feet. The apron opposite the breach has not only been washed away, but the ground on which it was built has been scoured out to a depth of 9 or 10 feet. The cost of repairing the damages is roughly estimated at Rs. 3,000.

Bookapatam Tank.—No. 1 or Western Calingulah of this tank was continuously discharging since 16th September, and on the 25th ultimo the depth was 3½ feet over the crest. The calingulah has been considerably damaged from the force of the overfall.

The wing wall of No. 2 calingulah, together with 53 yards of adjacent bund, have also been swept away.

Durmaverum Tank.—The western wing wall of No. 3 calingulah of this tank, together with 10 yards of body wall and about 60 yards of bund, have been destroyed.

Measures have been adopted for securing water for cultivation, and estimates for thoroughly repairing the damages are under preparation.

I saw the calingulahs of the Singanamalla and Durmaverum tanks in September, and they did not appear to me sufficiently good for such large tanks.

Damages to other Irrigation works of less importance have also occurred, and estimates for their repairs have been already sanctioned.

SUBMITTED for the information of Government.

2. The damage sustained by the surplus weirs of three of the largest tanks in the Bellary District tends to confirm the Superintending Engineer's opinion that some of these works were not sufficiently substantial, and in restoring them care should be taken that they are made in all respects perfectly secure. The wing walls should be of ample height, and all danger of their being undermined by the water after its escape from the tank should be guarded against. Accidents from the defective arrangements of wing walls are unfortunately of very common occurrence.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department,
22nd December 1874.

No. 457. ORDER THEREON, 22nd December 1874, No. 3,603.

IRRIGATION, No. 38.

RECORDED, with the remark that the surplus weirs of tanks should be equal to the greatest strain to which they are likely to be subjected.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the Superintending Engineer, Bellary.
„ Chief Engineer for Irrigation.

Erd. E. C. Shunker.
Spare Copies

No - Erd. Shunker
Ap. 1412

District Engineer's Office
Bellary 23d November 1874

From

The District Engineer
Bellary

To

The Chief Engineer
for Irrigation

Sir.

I have the honor to report the occurrence of damage to the undermentioned Tanks during the heavy rains of October last.

Singavarmella Tank. Water in this Tank rose to 4½ feet above the Calingulah bed on the 25th Ultimo which led to the breaching of the Calingulah to an average length of 110 feet. The Apron opposite the breach has not only been washed away, but the ground on which it was built has been scoured out to a depth of 9 or 10 feet. The cost of repairing the

the damages is roughly Estimated at Rs. 3000.

Boothapraham Tank - No. 1 or Western Calingudah of this Tank was continuously discharging since 16 September and on the 25 Ultimo the depth was 3½' over the Crest. The Calingudah has been Considerably damaged from the force of the over fall.

The Wing wall of No. 2 Calingudah together with 53 Yards of adjacent bund, have ialso been swept away.

Durmaveruwa Tank. The Western Wing wall of No. 3 Calingudahs of this Tank together with 10 yards of body wall and about 60 Yards of bund have been destroyed.

Measures have been adopted for securing water for cultivation and Estimates for

for thoroughly repairing the damages are under preparation.

I saw the Calingudahs of the Tungawannilla and Durmaveruwa Tanks on 8 September and they did not appear to me sufficiently good for such large tanks.

Damages to other Irrigation works of less importance, have also occurred and Estimates for their repairs have been already Sanctioned.

I have the honor to be
Sir
Your most obedt. Servt.

E A Ward Col. R.E.
District Engineer
Mannar

No 9998.

Submitted for the information of Government.

The damage sustained by the pumping weirs of three of the barge boat tanks in the Bellary District tends to confirm the suspicion that some of their works were insufficiently substantial and in restoring them care should be taken that they are made in all respects as heretofore. The wing walls should be of ample height and all danger of their being undermined by the water after its escape from the tanks should be guarded against accidents from the same.

Chief Engineer's Opinion

Chief Engineer for Irrigation 2nd December 1874

To The Secy to Govt. No. 9998 dated 2nd December 74.

Govt No. 2228. 1874-76 Rev

From The Dist. Engineer Bellary

To The Chief Engineer for Irrigation

No. 1412 Dated 28th Recd. 27th November 74

30/11/74

Reports on certain damages to Tanks during the late rains.

No. 2210/74. dated 22 Dec 74 In B No. 456.

Proceedings of Public Works Dept.
for Information.
Revenue Settlements.

From Chief Engineer for Irrigation
To Secretary to Govt. P.W.D.
No. 999 A dated 2nd Dec 1874
Received 3rd Dec 1874

Submits for information the report of the Supdg. Engr. Bellary relative to damages to certain Tanks during late freshes.

Encl. 1.

Mr. 3/12/74
Asst.

Mr 14/12

28/12

To Chief Secretary to Govt. P.W.D.
Chief Engr for Irrigation
Dated Bangalore 23/12/74.

No 456
Recd 12-12-74

P. W. 1874 Dept.
Proceedings for Dec
No. 7710
No. 999 A

From
The Chief Engineer for Irrigation
To
The Secretary to Govt P.W.D.

Dated 2nd Dec
Disp 9
Received 10
1874

Encl 1.

Submits for information the report of the Supdg. Engr. Bellary relative to damages to certain Tanks during late freshes.

El. No: 3603. 22-12-74.

7710

Govt. of {1874} Madras.

PUBLIC WORKS.

To The Superintr. Bellary.

Dated

Recd. Encl. /

G. O. 22 Dec.t, No. 3603

Nos. 456-457.

Tanks — Bellary Dt.

Endorsement by the Chief Engineer fr Lrom submitting a letter from the Supt Engr Bellary reporting damages to certain tanks during the heavy rains of October last, recorded with remarks —

456-457

Mir 12-12-74