M.R.O. 1—10,006—28-2-50.

(1) Number of pages———————

(2) Date of repair———————

(3) Initials of the Referencer———————

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 3345- 9 Press
B.P. No. Mis.

Dated 26- 11- 74 ~~195~~ .

Not to be folded or roughly handled

No. 474. Read the following endorsement of the Chief Engineer for Irrigation, dated Tuticorin, 3rd November 1874, No. 899-E:—

From Colonel F. J. MOBERLY, R.E., Superintending Engineer, Chingleput, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Guindy, 27th October 1874, No. 2,606.

I HAVE the honor to report the issue of a very heavy fall of rain and consequent floods in all the rivers in the district so far as I have heard to this time.

2. The surplus sluice at Kesavaram has suffered injury to the east wing, which showed no signs of weakness after the floods of 1872. The want of any bridge across it prevented access to the Kesavaram dam, but no injury is visible.

3. The flood in the Kuam was very great; at Koratur 12·09 inches of rain were gauged on the 24th instant; the water rose to 108·94 or 3·24 feet over the crest of the dam, when it breached the new bank beyond the north wing; we have not yet been able to ascertain whether the wall itself has suffered.* The bank between the river and channel breached and threw a quantity of water into the Chembrumbaukum tank, already very full.

* I think it will be advisable to lengthen the dam.

4. The head sluice was built only to the top of the piers, but I had had the vents closed with rough palmyra shutters; about 2 feet water passed over these at the highest. The water in the tank rose to 84·90 or 2·5 over the crest of the weirs now at their full height. It had fallen half a foot when I heard last, but of course we have not been able yet to see the weirs. A very slight settlement of the bank in one place, and erosion of the bank above the revetment are reported; but the works generally have served well.

5. I have not heard from Tamarapak; the Katankal was impassable, and had breached the left bank of the supply-channel opposite its inlet. The tanks are reported in very good order.

6. In the Red Hill tank the water rose to 46·60; unfortunately the two courses of rough stone have given way in places, and the level was speedily reduced to 44·78. However the tank has had a good trial. I have not heard from Cholaveram except in general terms.

7. The whole country is of course under water.

8. I have not as yet received any reports regarding the smaller tanks, etc., etc.

SUBMITTED for the information of Government. The wing of the Kesavaram surplus sluice was of weak section, but the injury it has sustained is probably the result of undermining rather than of any want of stability to resist pressure.

2. What should be done at the Koratur anicut will depend upon local circumstances. It is inconvenient that flood waters should rise to any great height, because the prevention of spill over the low banks of the Kuam might be difficult. Breaching into the channel through its right bank can probably easily, and should, be prevented. If the bank from the north wing wall of the anicut

was of the height of the intended roadway over the new head sluice, it should not have given way with 3·24 feet of water going over the crest of the anicut, but it is very possible that water level near the north end of this flood bank may have been considerably higher, and this should be ascertained from the flood marks which have probably been left.

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

No. 475. ORDER THEREON, 26th November 1874, No. 3,345.

IRRIGATION, No. 55. ORDERED to be recorded.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

No — Cudalore
No 2606

Distt. Engrs Office 6.&
Cuddy 27th October 1874

3B 1

From

The District Engineer
Chingleput District

To

The Chief Engineer
for Irrigation

Sir

I have the honor to report the issue of a very heavy fall of rain and consequent floods in all the rivers in this District, so far as I have heard to this time.

The surplus sluice at Kasavaram has suffered injury to the east wing, which shewed no signs of weakness after the floods of 1872. The mount of any bridge across it permitted access to the Kasavaram dam, but no injury is visible.

The flood in the Kuan was very great; at Koratur 12.09 inches of rain were gauged on the 24th instant; the water rose to 108.94 or 3.24 feet over the crest of the dam. when it breached the new bank beyond the north wing; we have not yet been able to ascertain whether the wall itself has suffered. The bank between the river and channel breached and there a quantity of water

* I think it will be advisable to lengthen the dam.

into the Chundrumbakam tank, already very full.

The head sluice was built only to the top of the piers. but the head the vents closed with rough jaduyra shutters - about 2 feet water passed over these at the highest - The water in the tank rose to 54.90 or 2.5 over the crest of the weirs now at their full height. It had fallen ½ foot when I heard last, but of course we have not been able yet to see the weirs - A very slight settlement of the bank in one place, and erosion of the banks above the revetments are reported; but the works generally have served well.

I have not heard from Jamarapatti, the Katcherikal was impassable and had breached the left bank of the supply channel opposite its inlet. The tanks are reported in very good order.

In the Red Hill tank the water rose to 46.60 unfortunately the two courses of rough stone have given way in places and the bund was speedily reduced to 44.75. However the tank has had a good trial. I have not heard from Cholavaram except in general terms.

The

58

The whole country is of course under water.

I have not as yet received any reports regarding the smaller tanks &c.

I have the honor to be
Sir
Your Most Obedient &
H. Thuillier C.E.
District Engineer Chingl

No 899 E.

Submitted for the information of Government.

The wing of the Kamrau pucka bridge
of weak section, but the injury is not considered
of a serious character.

S.D.W. 18/11/74. Defer
Mo-Pt. for Gov Secs
R 899

No 7114.

From
The Chief Engineer
for Irrigation

To The Secretary to Govt.
P.W.D.

Dates 3rd
3rd-12
Rec'd 12th
S.O. No: 834 S: 26-11-74.
Rainfall:

November
1874

Submits for information
a Report from the Executive Engineer
Chinglepet regarding a
very heavy fall of rain
& consequent floods in
all the rivers in his
Division

4/74 - 4/75.

Recd Commr 13 Nov/74

To Govt No 899 E. - 2nd Nov/74
Left Exec Engineer Chinglepet No 906-5th Nov/74 -

C.E. No 2008
Rec'd

From

The District Engineer
Chinglepet

To

The Chief Engineer
for Irrigation

Rly No 26 2nd Nov/74
Lr No B No 474
Do 27th Oct/74
Rec'd 28th

No 2606

3/11 W.O. No. 7114/74

Reports the occurrence
of a very heavy fall
of rain and conse-
quent floods in all
the rivers in the
Chinglepet Distt.

No 899 E.

98 3

Submitted for the information of Government.

Encls: 1.

The wing of the Kesavaram surplus sluice was of weak section, but the injury it has sustained is probably the result of undermining, rather than of any want of stability to resist pressure.

2. What should be done at the Koratúr Anicut will depend upon local circumstances. It is inconvenient that flood waters should rise to any great height, because the prevention of spill over the low banks of the Kistna might be difficult. Breaching into the channel through its right bank can probably easily, and should, be prevented. If the bank from the north wing wall of the Anicut was of the height of the intended roadway over the new head sluice, it should not have given way with 3.24 feet of water going over the crest of the Anicut, but it is very possible that water level near the north end of this flood bank may have been considerably higher, and this should be ascertained from the flood marks which have probably been left.

Lieut-Col. R.E.
Chief Engineer for Irrigation

Secretariat
3 November 1874

To the Chief Engineer & Govt. Director of Irrigation.

Thought sent direct.

with an order

3345

Recorded

Reg. 5/11/74

Colonial [illegible] 1874

[illegible]

Rem Debt — Desp. 5/12/74

Despatched to [illegible] 27/11/74.

7114

Govt. of 1874 Madras.

PUBLIC WORKS.

To The Supg: Engr.
Chingleput

Dated

Rcd. Encl.

26 Nov. 1874, No 3345

Nos. 474-475

Floods Chingleput

R. Endorsement from the Chief Engr. for Govt. submitting from the a report from the Supt Engr. on the damages done to certain works by floods, recorded-