M.R.O. 1—77,006—8-6-37.

(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. 505 Press ~~Mis.~~

252-53

Dated 12 2 1870.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 12th February 1870.

No. 252. Read the following Endorsement of the Officiating Superintending Engineer, 8th Division, dated Madura, 7th January 1870, No. 2,301.

Read the following:—

Memorandum on work executed in connection with the Perryaur Project during November 1869.

THE survey of the lake basin has been completed with the exception of a small portion of the Peria Moollyar valley, and some observations have been taken on the ground below the site of the dam.

2. No great progress has been made with the examination of soil, owing to the heavy rain, and also to the greater part of the available labour having been required for repairing the injuries done to the road by the storms which occurred during the middle of the month.

3. The rain-fall has been heavier than during any previous month, 13·19 inches at the upper camp, and 14·11 at the lower. More than half of this fell in two days, and three-fourths during four.

4. The discharge of the river has also been very great, and there have been four freshes, each larger than any which we have had before. One of these was a flood of an extent which must be pretty nearly unprecedented, the water having reached the height of thirty-seven feet above datum. The highest flood-marks noticed by Major Payne were at about twenty-six feet, and I have never been able to discover any above twenty.

5. Taking the whole period of forty-eight hours over which this flood may be said to have extended, the quantity of water run off was almost exactly the same as Captain Ryves' estimate of the greatest possible flood, but for shorter periods it was considerably more; Captain Ryves' estimate being—

In 48 hours, 289½ millions cubic yards.
„ 24 „ 177 „ „
„ 12 „ ~~23·93~~ 93 „ „
„ 6 „ 48 „ „

The actual amount discharged during the flood under notice was—

In 48 hours, 280½ millions cubic yards.
„ 24 { 6 A.M. on 17th to 6 A.M. on 18th, } 205 „
„ 12 { 6 P.M. on 17th to 6 A.M. on 18th, } 138 „
„ 6 { 8 P.M. on 17th to 2 A.M. on 18th, } 85 „

6. Careful observations were made of the velocities at various levels up to twenty-nine feet; above this level observations could not be taken as the river rose during the night, and the velocities from twenty-nine to thirty-seven feet have, therefore, been estimated from those taken at the lower levels.

7. The additional information with regard to velocities which was obtained during this flood has necessitated the revision of the calculations of discharge for all levels above five feet. This has taken some time, and has caused a slight delay in the submission of this report.

Proceedings of the Madras Government, Public Works Department,
12th February 1870.

8. A table of rain-fall and discharges, with separate tables of the two principal freshes, is enclosed. A diagram of rain-full, etc., will be sent separately.

MADRAS,
16*th December* 1869.

(Signed) J. PENNYCUICK, Lieut., R.E.,
Executive Engineer on special duty.

One Table.
One Diagram.

True Copy.—FORWARDED to the Chief Engineer for Irrigation with tables and diagram.

(Signed) H. L. PRENDERGAST, Captain, R.E.,
Offg. Supg. Engineer, 8th Division.

No. 253. ORDER THEREON, 12th February 1870, No. 505.

IRRIGATION, No. 11.

ORDERED to be recorded.

2. The entry 23 millions of cubic yards in 12 hours, in paragraph 5 of the report, appears to be a mistake.

(True Extract.)

Major, R.E.,
Acting Joint-Secretary to Government.

To the Superintending Engineer, 8th Division.

Public Works Department.

No 505 505 34

Proceedings of the Madras Government

Under date the 12th Feby 1870

Read the following.

From. The officiating Superintg. Engineer 8th Division } H.E. No 2301 of 7th Decr 69

Ordered to be recorded.

2. The entry 23 millions of cubic yards in 12 hours, in para 5 of the report, appears to be a mistake.

Dy. 14/1/70

To
The Supg. 8th Dn

Desp. 15/2/70.

Cue 2/2

Govt. of {1870} Works.

PUBLIC WORKS.

To

The Superintending Engr.

8th Division

Dated

Recd. Fwd.

G. A. 12 Feby 1870. No. 505

Nos. 252-253

Cerryan Project Endorsement

Vice Supt Engr gives sanction

subscribing a Memorandum

executed in connection with

the Cerryan Project in the

Madras Dt during November

1869 - recorded -

c. 24 Jan 1870 R 3d Feby