

(1) Number of pages 10

(2) Date of repair

(3) Initials of the Referee

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 707

Press
Mis.

Dated 12-1-18

Not to be folded or roughly handled

Read the following papers:—

No. 203. From J. H. LATHAM, Esq., Chief Engineer and Manager, Madras Irrigation and Canal Company, to Lieutenant-Colonel J. MULLANS, R.E., Chief Engineer for Irrigation, dated Kurnool, 6th January 1877, No. 1.

I HAVE the honor to reply to three questions in G.O., No. 3,034, of 13th November 1876, without further waiting for any communication from you on the subject.

I.—After the head sluices are closed the water in the canal would speedily fall below the level of canal bed, and remain only in the deep parts of the canal. The sluice supplying Kurnool town is in a rock cutting in the 17th mile, and would run dry and supply would cease.

II.—By blocking up the canal below the town sluice, and retaining the water 4 feet deep, about 15,000 cubic yards of water would be stored. Allowing for waste by leakage, this would supply the town a fortnight or three weeks at a cost of some Rs. 20.

Hitherto such a dam has been made annually at the Company's expense, and generally another low one at the end of the 19th mile (where the sub-soil is water-tight) to stop the whole of the leakage from the first dam. All the waste water escapes into the Toombudra, and the canal has been kept supplied from the Sunkesala head sluice which has not been quite shut. The water has been used for the town supply and for irrigation in and above Kurnool. This irrigation is too small to use much water. I cannot stop it, I am advised, unless bye-laws are made which enable me. Major Hasted seems to think that I can guarantee that no irrigation shall continue although water would be in the canal; this I doubt. The Collector would be the proper officer to stop it.

III.—It is expected that it will be necessary to close the canal above Kurnool for repairs about once in three years for six weeks, but since advantage is taken of any time that it is avoidably closed, from failure of supply, the compulsory closing may be less frequent than the above.

There is now a depth of 3.4 feet water on the Hindry aqueduct, which fairly indicates the effective depth of water in the canal; the full depth being 8 feet. This is enough to keep the wells of all the 250 villages within the canal scheme supplied with healthy water. It also keeps the sub-soil so far from absolute dryness that most of the dry crop will mature without further direct irrigation, thus rendering the harvest of the whole nearly secure, i.e., securing about 30,000 tons of good cholam grain (besides the rice crops) which would feed the whole district for six weeks.

The canal is now perhaps taking three-fourths of the water in the Toombudra, after allowing for leakage of anicut and under sluices, and waste from the first 72 miles of canal.

I have as yet received no instructions to close the head sluices at Sunkesala.

No. 19 W.

No. 203-A. *Note by the Chief Engineer for Irrigation.*

THE Chief Engineer and Manager proposed to the Superintending Engineer, Kistna, that the Kurnool Canal should be dammed at the 19th mile, and that only drinking water should be drawn therefrom, and the proposal, reported by Major Hasted

Proceedings of the Madras Government, Public Works Department.
12th January 1877. No. 104.

to be unobjectionable in his telegram of the 26th ultimo, has been approved of by the Government. It now appears from the letter of the Manager under reference that a small quantity of land between the head works and the dam is usually irrigated throughout the period during which water is retained. All waste water runs back into the Toombudra after passing over the land or into the town, and as the irrigated area is insignificant it does not seem necessary that it should be interfered with. Whatever may be the importance of retaining water throughout the canal as long as possible, since it has been admitted that there is a priority of right in the Kistna Delta for that purpose, it is necessary that a discretionary power should be vested in the Superintending Engineer to cause the Kurnool Canal to be closed at the 19th mile whenever it seems to him necessary in the interests of the delta irrigation or navigation that this should be done. The Chief Engineer and Manager should proceed with the construction of the dam as soon as he is instructed to that effect by the Superintending Engineer.

FORT ST. GEORGE,
9th January 1877.

(Signed)

A. DEC. SCOTT, Major, R.E.,
Dy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

No. 204.

ORDER THEREON, 12th January 1877, No. 104.

IRRIGATION, No. 30.

THE Chief Engineer and Manager should be prepared to dam up the Kurnool Canal at the 19th mile as soon as he is instructed to that effect by the Superintending Engineer, Kistna, who will, however, delay the signal so long as it is possible to do so without causing material injury to the irrigation in the Kistna Delta or serious impediment to the navigation of the canals.

(True Extract.)

Major-General, R.E.,

Secretary to Government.

To the Superintending Engineer, Kistna.

- " Chief Engineer for Irrigation.
- " Chief Engineer and Manager, Madras Irrigation and Canal Company.
- " District Engineer, Kurnool.
- " Collector of do.
- " Revenue Department.

Exd. S. T. Austin.

Spare Copies

E. J. Form No. 18.

OFFICE OF CHIEF ENGINEER FOR IRRIGATION,

Fort St. George, 9th January 1877.

11-19-W.

Note by the Chief Engineer for Irrigation.

Encls/

The Chief Engineer and Manager prepared to the Superintending Engineer, Kistna, that the Kurnool Canal should be dammed up at the 19th mile and that only drinking water should be drawn therefrom and the proposal reported by Major Scott to be unobjectionable, in his telegram of the 26th ultimo, has been approved of by the Government. It now appears from the letter of the Manager under reference that a small quantity of land between the head works and the dam is usually irrigated throughout the period during which water is retained. All waste water runs back into the Toombudra after passing over the land or into the town and as the irrigated area is insignificant it does not seem necessary that it

G.O. No 3034-7 13 Nov 76
No 3445-7 16 Dec 76

Form No. 18.

P.W.D.

9 JAN 77

No. 105

From

The Chief Engineer for Irrigation,

To

The Secretary to Government,
Public Works Department.

Dated

Despatched

Received

1877.

ENCLOSURE

No. 19-W.

Subject.

Water supply of Kurnool -
Note on the letter from the C.E. & M.,
P.W.D. relative to the — and
stating that discretionary power
should be vested in the S.E. Kistna,
to cause the Kurnool Canal at
the 19 mile, to be closed whenever
required.

Gen 9-1-77

No 104 Public Works Department

PROCEEDINGS of the MADRAS GOVERNMENT.

Under date the

Read the following:

in the P.W.D. for
Engineer No 19 W 77 Jan 77.

The Chief Engineer and
Manager should be
prepared to dam up
the Kurnool Canal at
the 19th mile, as soon as
he is instructed to that
effect by the Superintending
Engineer Kistna, who will
however delay the signal
so long as it is possible
to do so without causing
material injury to the
irrigation.

irrigation in the Kistna
Delta or serious impediment
to the navigation of the
canals.

Wm Ayer

Is there a person
 named of the Kennel
 Club home, Baltimore,
 this 10th week?

0211

S. C. Kistner
Ch. Eng. in Brig. 1st
Ch. & M. M. S. C. Co
U.S. Marshal
Collector of do.
Revenue

Nov. to S. E. Kitchen, D. E. Kurnod
Chambers. 1844. 1845. 1846.

MS. Or. 2. 1. 1. 1.

12-1-79

Enter 9-1-77

195 ✓
Govt. of 1877 Madras.

PUBLIC WORKS.

To *The S. E. Engineer*

Dated *W 13-1 2 Pm*

Issued

Recd.

Encl.

G. O. 12th *Law* 1877, No. 104

Nos. 203 & 204. —

Water Supply of Turnool
Instructions issued
regarding the closing of
the M. E. C. Company's
Canal at Turnool
at the 19th mile —

For the Reg.

1-17
Revenue Dept
Secy to Govt