M.R.O. 1—77,006—8-6-37.

(1) Number of pages 8

(2) Date of repair 29-7-62

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 912 Press / Mis.

45-46

Dated 2-5- 1862.

Not to be folded or roughly handled

(2.) That the Ryots should have their full supply secured without fail.

(3.) That the Government should receive the full value for the payment they have to make, and which is dependent on the interests of their cultivators being fully secured.

10. I trust these proceedings will meet with the approval of Government as the Chief Engineer expects to have the Canal as far as Kurnool ready for the admittance of the water by June next, and it is of course desirable that the sluices should be ready by that time, as it has been represented that the people are preparing their fields to receive the water.

11. With this point the subject of the water rate is naturally connected. I beg to inform the Government that the report called for from me on the subject was sent to the Board of Revenue on the 20th February 1862, No. 62.

12. In conclusion, I request that early sanction may be given to the accompanying plans and estimates amounting to Rupees 5,520.

No. 46.

ORDER THEREON, 2nd May 1862, No. 912.

1. The Government sanction the estimates amounting to Rupees 5,520, submitted with the above letter, for twenty Irrigation sluices in the first portion of the Main Canal between Sunkasala and Kurnool. They agree with the Consulting Engineer's suggestions that the sluices in the Main Canal should be of a design that will secure the objects enumerated in paragraph 9, and they desire that he will arrange for their being constructed accordingly in the other portions of the Canal.

2. They approve also of his proceedings in reference to the sluices now sanctioned.

(Signed) W. H. HORSLEY, Lieut.-Colonel,
Secretary to Government.

No. 101.

Consulting Engineer's Office,
Irrigation & Canal Company
Fort St. George 27 March 1862.

From,
Lieut.-Col. F. H. Rundall,
Consulting Engineer for I. & C. Co.

To,
Lieut.-Col. W. H. Horsley
Secretary to Government in the P. W. D.
Fort St. George

Sir,

1. On the 22nd Instant the Agent forwarded the accompanying Plans and Estimates amounting to Rupees 5,520—"—" for constructing 20 Sluices in the embankment of the Main Canal, to irrigate the lands lying between Sunkasala and Kurnool, calculated to amount to about 2,270 acres.

2. Eight of the Sluices being formed at a trifling expense in the Culverts already sanctioned are not entered in the Estimate. The remaining 12 are to be constructed according to the accompanying Plans, varying only in depth of foundation. Where water is required to be given off at different levels, the Sluices will be provided with a rear cistern.

3. Besides the irrigation of the land provision is made at Sluice No. 19.

for

for supplying water to the Town of Kurnool, to the extent of 30,000 Cubic yards per day. The population of the Town is estimated at 30,000, this supply would therefore be at the rate of 166 gallons per head, but the manner and purposes of distribution cannot at present be stated. The Suburban gardens and walls will probably require water immediately from this Sluice.

4 The arrangements for working the shutters by a graduated Scale is shewn on an enlarged Scale in the accompanying plan, and they are to be furnished with Locks to secure them at any partial opening when necessary.

5 The Branch Channels will be provided with Earthenware Sluices for the supply of water to the fields.

6. The first description memo forwarded by the Chief Engineer contained no information as to the area assigned to each Sluice, the maximum rate at which the supply had been calculated, or to the measures for securing an unvarying supply. I called for these particulars, and at the same time recommended that a different design of Sluice should be adopted by which all the necessary conditions should be satisfied, the supply to the Cultivators rendered secure, and facility afforded to the Government Inspecting Officer for ascertaining at once whether the stipulated volume of water was being delivered.

Attached to memo dated 23rd August 1853

7 These particulars are furnished in the accompanying letter from the Executive Engineer of that Division of the Canal who states that the Sluices are planned to discharge 2 Cubic yards per hour per acre, with a head of water varying from 1 to 6 feet and that a Table will be prepared for each Sluice which will shew at a glance the height to which the Shutter should be raised in order to provide the requisite discharge with the available head.

8. On learning from the Chief Engineer that he was proceeding with the construction of the Sluices, I requested the Agent to direct their suspension pending replies to my objections - but as the explanation furnished meets for the most part the objections, I have allowed them to be proceeded with; as the openings left for them in the Embankment cannot be closed till the body of the Sluices is finished and the regulating Cisterns can be added afterwards.

9. The area to be irrigated in this portion is so small compared with the supply of water which will enter the

the Canal that I should not have it thought it necessary to raise any demur as to the design of the Sluices, but as similar plans had been furnished for those situated lower down the Canal where the Area would be considerable; it appeared to me important that suitable and approved designs should be at once determined on for 3 reasons.

First, that the supply of water which is limited (by the capacity of the Canal) might not run to waste.

Second. That the Ryots should have their full supply secured without fail.

Third, that the Government should receive the full value for the payment they have to make, and which is dependent on the interests of their Cultivators being fully secured.

10. I trust these proceedings will meet with the approval of Government as the Chief Engineer expects to have the Canal as far as Kurnool ready for the admittance of the water by June next, and it is of course desirable that the Sluices should be ready by that time, as it has been represented that the people are preparing their fields to receive the water.

11. With this point the subject of the water rate is naturally connected.

I

I beg to inform the Government that the Report called for from me on the subject was sent to the Board of Revenue on the 20th February 1862 No. 62.

12. In conclusion I request that early sanction may be given to the accompanying Plans and Estimates amounting to Rupees 5520.

I have the honor to be,
Sir,
Your most Obedient Servant
J. W. Ravenshaw Lieut. Colo.
Consulting Engineer for I. & Co.

1st April 62 No 22-23.
7 — 4 — 4 — 143-144.

No 95 — 46.

10th April 1862

Public Works 1862 Deptt
Dup. of Govt for May
No 912
The Consulting Engineer
for R & B.
&c
The Secretary to Govt.
in the Deptt of P.W.
Fort St George

Dated 27 Dec. 31 March 1862

No 101.

Enclosures
3. Plans
1 Estimate & description
1 Duplicate Letter in Original with the original letter
1 Sketch Plan
1 Abstract Estimate.

Forwards for the sanction of Government Plan and Estimate amounting to Rs 5520. for constructing 20 sluices in the Embankment of the Main Canal to irrigate the lands lying between Soonkasala and Kurnool.

With an order
No 912 - 2nd May.

No 912

The Govt sanction the estimate amounting to Rs 5520 submitted with the above letter for 20 Irrigation sluices in the first portion of the Main Canal between Soonkasala and Kurnool. They agree with the Consulting Engineers suggestions that the sluices in the Main Canal should be of a design that will secure the objects enumerated in Para 9 and they desire that he will arrange for their being constructed accordingly in the other portions of the Canal.

They approve also of his proceedings in reference to the sluices now sanctioned.

The Government however are of opinion that the design for these sluices is susceptible of improvement. The front wall they think is thrown to far back entailing additional expense for wing walls. If the front of the wall were within 3 feet of the foot of the front slope it would be better in their opinion as being less liable to get choked with silt.

I neither question Nor - Nor would opinion that be a Masonry standing out into the Canal where would be liable to damage by Floods passing

WW

4 Copies

To The Consg Engr
4. — Agent — do

Rec'd 3rd
Disp'd 3rd

D. P. P.
Company Cuddapah
Collr Cuddapah
2nd May 1862
Chief Clerk