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MADRAS RECORD OFFICE.

Government of Madras.

Publications DEPARTMENT.

G.O. No.	895	Press Mis.
617-18		
Dated	24-3-	1871.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
24th March 1871.*

No. 617. Read the following letter from the Consulting Engineer for Irrigation and Canal Company, to the Secretary to Government, Public Works Department, dated Madras, 8th March 1871, No. 134 :—

I HAVE the honour to submit drawings and an estimate, amounting to Rupees 290, for constructing a waste weir and surplus channel to the Butchumpully tank in the neighbourhood of the Cuddapah terminus of the Madras Irrigation and Canal Company's main canal.

2. The tank is private property ; and, observing that all the discharge from the main canal by the scouring or emptying sluice was intended to pass into the tank, I was apprehensive it might be somewhat injurious, and requested the Chief Engineer's attention to the circumstance.

3. In reply, the Company's Engineers state that the owner of the tank is very willing that the surplus water of the main canal should be discharged, as proposed, into the tank ; but as the quantity may amount to 50,000 cubic yards an hour, and the tank is not provided with a calingulah, it is very desirable one should be constructed.

4. I recommend the estimate for sanction, the amount being debitable to Capital, charged against the masonry works of the 10th section, main canal. The correspondence noted in the margin accompanies.

To Agent, No. 278, 17th December 1870.
From „ „ 108, 6th March 1871.

From the Consulting Engineer for the Madras Irrigation and Canal Company, to the Agent and Manager of the Madras Irrigation and Canal Company, dated Madras, 17th December 1870, No. 278.

In examining the plans relating to the scheme for distribution under the 10th section, and which I have just submitted to Government for sanction, my attention was attracted to the manner in which the scouring sluice at the Cuddapah terminus of the main canal will discharge. It appears that all waste discharge from this sluice will be carried into a tank in the neighbourhood. If it was simply surplus water that was to be got rid of this would be unobjectionable, but, as the name of the sluice denotes, it is intended chiefly for the passage of sand and silt which may accumulate in the canal, and it seems tolerably certain that this course must injure the tank. Will you please bring this to the Chief Engineer's notice.

From the Agent and Manager of the Madras Irrigation and Canal Company, to the Consulting Engineer for Irrigation and Canal Company, dated Madras, 6th March 1871, No. 108.

WITH reference to your letter of the 17th December last, No. 278, I have the honour to forward copy of Chief Engineer's letter, No. 299, of the 21st ultimo, and Mr. Gordon's No. 91, of 10th February 1871, together with the plan

1 Plan of Longitudinal Section.
1 Do. Waste Weir.
1 Estimate.

and estimates as particularized in the margin, and to request sanction for Rupees 290 for waste weir and channels to discharge 50,000 cubic yards through Butchumpully tank in scouring sluice channels.

From the Chief Engineer, to the Agent and Manager of the Madras Irrigation and Canal Company, dated Kurnool, 21st February 1871, No. 299.

YOUR No. 982 of 21st December 1870.

I have the honour to enclose Mr. Gordon's No. 91, of 10th instant, and ask for sanction for Rupees 290, charged to main canal masonry.

*Proceedings of the Madras Government, Public Works Department,
24th March 1871.*

2. The chief use of the sluice will be to empty the canal for yearly repairs, which will be done in the dry season, when the water will be desirable for the tank.
3. When the canal is complete these sluices will so empty the part above the first lock.

From G. GORDON, Esq., to the Chief Engineer for the Madras Irrigation and Canal Company, dated
Cuddapah, 10th February 1871, No. 91.

YOUR No. 8 of 5th ultimo.

With reference to the Consulting Engineer's No. 278, of 17th December, I think there is no danger of any silt being carried into the tank beyond what is held in suspension in the water when nearly at rest, and certainly only a very small quantity can enter compared with that carried in by the natural feeders of the tank. The impression with the Consulting Engineer would seem to have arisen from the sluice at the end of the canal being called a "scouring sluice," which, I believe it has been called from the beginning; but the more correct name would be "emptying sluice," for it can never act as a scouring sluice to any appreciable extent on the canal.

2. The canal is 50 feet wide at bottom, 5 feet deep, with 2 to 1 slopes and a fall of 0.10 feet per mile, consequently the greatest mean velocity is about 48½ feet, and the greatest bottom velocity about 33 feet per minute, which is not sufficient to disturb clayey sand, of which the bottom is composed. As the sluice can discharge more than the canal can carry the effect must be that the velocity in the canal will decrease as the depth lessens, and all that can be scoured would be a small area near the sluice, where a greater velocity would be produced by opening the sluice suddenly.

3. The tank is a private one, and the owner is quite willing and will be very glad to have the canal emptied into it; but as there is at present no waste weir to the tank, it will, I think, be necessary to build one; at present, when the water in the tank reaches a certain height (103.75 above datum), the bund is cut, but as this might need to be done several times in a season if the canal water were turned into the tank the waste weir seems to be needed. At present, when the bank is cut, the water flows over paddy-fields and all abroad, but it will be best to confine it. I send herewith

* Two Tracings.

a plan* for a waste weir and training bank. The crest of the weir is at 102 — 75 + datum or 6 inches below what is considered the ordinary full level of the tank; on it a temporary bank will be made up to 103 — 75 and will be breached by the water should it rise higher. The land plan for the bank will follow very soon. I have the honour to ask your approval of the construction of this waste weir and bank, and to request that you will, if necessary, obtain Government sanction for it at a cost of Rupees 290, as per estimate on the plans, to be charged to the masonry works of the 10th section.

No. 618.

ORDER THEREON, 24th March 1871, No. 895.

IRRIGATION, No. 51.

SANCTIONED, the cost being debited
to Capital.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the Consulting Engineer for the Madras Irrigation and Canal Company.
,, Agent and Manager for do.
do.

Exd. S. T. Augustin.

PW 1871 Rept
No. 134.

From
The Engineer for C.C.
to
The Secretary & Govt. P.W.

Dated 8th } March/71.
Recd: 13th }

Encl: 6.

Submits for sanction plans
estimate for Rs. 290 for
constructing a Waste weir &
surplus channel to the Put-
chumpully Sank near the
Cuddapah terminus of the
Company's Main Canal.

No. 895, 26th Dec/71
With an order

Sanctioned. The work being referred to Capitalist.

For Sanctioned

24th March/71

N

W

11th Dec
Com: Eng. Mr. J. C. G. with the letter.
18th Dec 27/3/71

15th March/71

Rs. 160

1876

Govt. of Madras.

PUBLIC WORKS.

To the Consulting Engr
for the Madras Irrigation
and Canal Company

Dated.

Sd.

Per.

G.O. 24th March 77, No 898.

Nos. 677 & 678

Batchumpully Tank -

The estimate of Rs 290 for
Constructing a waste weir
& surplus Channel to the
Batchumpully tank near
the Juddapah Terminals of
the Madras & Co's main
Canal; Sanctioned.