(1) Number of pages_____

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(3) Initials of the Referencer_____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No. / B.P. No.	2782	Press. / Mis.
Dated	16.5.1877	197 .

Not to be folded or roughly handled

Archives I—10,006—19-4-79.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st May 1877, No. 1 I.

Irrigation.
Account.

Read the following:—

No. 196 W.

Note by the Chief Engineer for Irrigation.

No. 1.

Letter No. 3,575, 13th March 1877.

The Superintending Engineer, Godavery, has with reference to the remarks made in the note on the estimate for improving the irrigation under the Bayana weir transmitted revised estimates for the weir improvements and for the head sluice to the main channel. The revised estimates exceed the original by Rupees 769.

2. Some minor alterations of details are still necessary.

Alterations of Bayana weir.—The position shown for the shutter grooves is unsuitable and would probably lead to the failure of the end of the piers and the carrying away of the shutters.

The building of a solid wall 6 feet thick above the beam stones of the vents is unnecessary. The shutter grooves should be placed either in front of a line 2 feet from the front face of the weir and the spaces between the piers above the vents should be closed by a wall 4 feet wide at the beam stones with an upstream face batter of 1 in 6; the roadway of the full width of the crest may be formed by arching the space between the piers or by beam stones, whichever may be the cheaper, or it may be better to place the shutter groove 4 feet from the face of the weir and to build the closing wall in front of the grooves with a rear face batter. The gear would then generally be out of water. With this arrangement there would be a slight leakage, as the shutter would be pressed away from the face of the rear beam stone, but the extent of this leakage would be unimportant. There would be 4 feet of pier behind the shutter groove which would suffice if the bond be good. Both arrangements have been shown in pencil on the tracing.

The cushion wall 3 feet above the level of the first apron shown in the design would certainly be destroyed. The old rear apron should be well protected by an outer rough stone apron.

Head sluice design.

Cross section on A B.—This does not agree with the section on the line marked on the plan. The one is through a pier; the other through the centre of an arch. There is no advantage in placing the retaining walls inside the line of the wing returns, and they should be built on the line of the latter. Possibly with regard to the front retaining wall a pencil emendation on the original design has been misapprehended, but in that case a wall on the line of the returns would have been 58 feet long and the area of flooring would have been great; with the revised front wings the proper place for the retaining wall will be on the line of the returns.

The splay of the rear wings is greater than is desirable, unless the arrangements have been designed to suit the circumstances of the channel.

3. Subject to the modifications shown above to be necessary or desirable, the revised estimate, amounting to Rupees 16,580, is recommended for sanction.

FORT ST. GEORGE,
19th April 1877.

(Signed) JOHN MULLINS, Lt.-Col., R.E.,
Chief Engineer for Irrigation.

To the Joint Secretary to Government, Public Works Department, Irrigation Branch.

No. 2.

ORDER THEREON, 1st May 1877, No. 1 I.

THE revised estimate, amounting to Rupees 16,580, for improvements to irrigation under the Bayana weir is sanctioned in lieu of that of Rupees 15,811 sanctioned in G.O., No. 2,706, dated 9th October 1876.

2. This sanction which cancels No. 163 I of 1876-77 has been registered as No. I of 1877-78.

(True Extract.)

Lt.-Col., R.E.,
Joint Secy. to Govt., P.W.D.,
Irrigation Branch.

To the District Engineer, Godavery.
" Collector of "
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

Exd. E. C. Shunker.
18 Spare Copies

2782
2

Revenue Department
No 2504

IRRIGATION.
ACCOUNT.

Govt. of 1877 Madras.

PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
GODAVERY.
&c., &c., &c.

Dated May 1st.

Issued

Recd. 15th May 1877 Encl.

G. O., 1st May 1877, No. 11.

MAY.

Nos. 1-2.

Bajana weir, Godavery District.—The revised estimate amounting to Rupees 16,580, for improvements to irrigation under the sanctioned.

No 2782.
Comm^d to the
Board of Revenue
16th May 1877