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# MADRAS RECORD OFFICE

## Government of Madras

*Revenue* DEPARTMENT

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|----------|-----------|-------|
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Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,  
19th January 1872.*

Read the following papers:—

No. 336. From the Officiating Superintending Engineer, 5th Division, to the Secretary to Government, Public Works Department, dated Cuddalore, 23rd November 1871, No. 190.

I HAVE the honour to forward, for the sanction of Government, a revised plan and estimate of Rupees 6,240, accompanied by a specification for the head sluice to the main channel from the Palandorai Anicut.

1 Plan.  
1 Estimate.  
1 Specification.

2. The amount of the original estimate was Rupees 3,920; this design was altered by the Chief Engineer for Irrigation, *vide* paragraph 8 of his note on the project recorded in G. O., No. 3,880, dated 10th December 1869.

The principal alterations and additions in this design are as follow:—

The curve of the rear wing-wall was altered to an S shape; the height of the wing-walls in front and rear was increased from 13 to 18 feet; the flooring in rear was extended from 23 to 27½ feet, and a return of 14 feet in length was added to the west wing.

The thickness of the piers was increased from 2½ to 3 feet, and their height reduced from 9 to 7½ feet. Retaining walls were also given, and false arches in front were added for appearance sake.

These alterations raised the estimate to Rupees 6,240.

3. In adopting this altered design, the 4th Range Officer, who is in charge of the project, proposes to make the piers 9 feet high, as in the original design, and to omit the false arches; these alterations are of minor importance, and will cause very little difference in the total cost; but I may say that I do not myself see any reason for raising the piers above the maximum level of water to be maintained in the channel.

4. The return wall (J K) was to have a height of 9 feet and a bottom width of 4 feet; by the late Colonel Boileau's orders the height is to be increased to 18 feet, but as the foundation had already been laid for the lesser height, he proposed to build the wall with a width of 4 feet and a height of 18 feet, and there commence the offsets.

5. The height to which the different sections of the masonry have been built is shown on the sections.

No. 16.

No. 337. *Note by the Acting Chief Engineer for Irrigation.*

With his letter No. 190, dated 23rd November, the Superintending Engineer

of the 5th Division submits a revised plan and estimate of Rupees 6,240 for the head sluice of the main channel from the Palandorai anicut with reference to paragraph 8 of the Chief Engineer's note in G. O., No. 3,880, of 10th December 1869.

1 Letter, No. 190, dated 23rd November 1871.  
1 Plan.  
1 Revised Estimate of Rupees 6,240.  
1 Specification.

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2. The plan is not in accordance with that forwarded by the Chief Engineer for Irrigation on the 15th December 1871. The deviations consist in the enlargement of the vents of the sluices and in the arrangements for working the shutters. It is not desirable that the vents should be enlarged, and it is necessary that the platform from which the shutters are worked should be above the highest water-mark. The arrangement proposed in the plan submitted by the Superintending Engineer is inadmissible, as the platform from which he proposes to work the shutters is  $1\frac{1}{2}$  feet and  $6\frac{1}{2}$  feet below the level of the normal and extreme floods respectively, and hence the shutters could not be worked from the platform, and would be actually inaccessible during floods.

3. The head sluice should be built according to the plan sent to the Superintending Engineer from this office. The return wall J K being raised from 9 to 16 feet, or to 6 inches above the highest water-mark, the wall should be built to a height of  $11\frac{1}{2}$  feet with a thickness of 6 feet with offsets of 6 inches at every  $1\frac{1}{2}$  feet above. The alterations may be met from the sundries.

4. The increase in cost of the proposed sluice above that of the original sluice is due to the fact that the former has nearly 50 per cent. more brick-in-chunam work in it than the latter, and the rate in the latter was  $1\frac{1}{2}$  annas per cubic foot; this must have been a clerical error, as 2 annas per cubic foot is the rate allowed for brick-in-chunam in this anicut itself and in all the subsidiary works.

5. The extra cost of the sluice, namely, Rupees 2,320, may be met from the Rupees 26,050 provided for increasing the storage capacity of the tanks. As far as can be gathered from the papers now submitted, no arrangements appear to have

\* Paragraph 4 of G. O., No. 2,857, dated 30th November.  
† Paragraph 6, G. O., No. 3,850, dated 10th December 1869.  
been made for providing the storage requisite to ensure the safety of the crops on the lands to be irrigated from the anicut, or for the passage of the cross drainage and the discharge of surplus at the tail of the canal, to which attention was called in the orders noted in the margin.

FORT ST. GEORGE,  
28th December 1871.

(Signed) J. OAKES, Captain, R.E.,  
Superintending Chief Engineer for Irrigation.

No. 338.

ORDER THEREON, 19th January 1872, No. 171.

IRRIGATION, No. 26.

The Government sanction the revised estimate of Rupees 6,240 for the head sluice of the Palandurai main channel on the plan furnished to the Superintending Engineer by the Chief Engineer for Irrigation in December 1869.

2. The Superintending Engineer will report what steps have been taken to provide for the cross drainage and the discharge of surplus at the tail of the canal,

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and will expedite the submission of estimates for providing the storage requisite to ensure the safety of the crops dependent upon the anicut.

(True Extract.)

*[Signature]*  
Colonel, R.E.,  
Secretary to Government.

To the Superintending Engineer, 5th Division.  
.. Controller of Public Works Accounts.  
.. Revenue Department.  
.. Chief Engineer for Irrigation.

Ed. S. T. Augustin.

*[Signature]*

