

(1) Number of pages 1(2) Date of repair 17-7-06

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	171	Press
336.337.38		Mis.
Dated	19-1	1872

Not to be folded or roughly handled

1

*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 up to 9 feet in height, and there commence the offsets.

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

No. 216.

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.

2. The plan is not in accordance with that forwarded by the Chief Engineer for Irrigation on the 15th December 1869. 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 4 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 the 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

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

* Paragraph 4 of G. O., No. 2,887, dated 30th November.
† Paragraph 6, G. O., No. 3,880, dated 10th December 1869.

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) R. F. OAKES, Captain, R.E.,
Acting 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 Palandorai 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,

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.)

Colonel, R.E.,

Secretary to Government.

To the Superintending Engineer, 5th Division.

.. Controller of Public Works Accounts.

.. Revenue Department.

.. Chief Engineer for Irrigation.

Exd. S. T. Augustin.

Supg. Engineer's Office, 5th Divn;
Sud. Col. W., 23rd November 1871.

N^o 190.

From,

Captain James Vertue R.E.,
Offg. Superintg. Engineer, 5th Divn.

To,

Colonel J. Carpendale R.E.,
Secy. to Govt. D.P.W.,
Madras.

Sir,

I have the honor to forward
Enclosures 3. for the sanction of Government, a Revised
1 Plan Plan and Estimate of Rs 6240, accom-
1 Estimate
1 Specification -panied by a Specification, for the Head
Shuce to the main channel from the
Palandorai Anicut.

2. The amount of the Original
Estimate was Rs 3920; this design
was altered by the Chief Engineer
for irrigation, vide Para 8 of his note
on the Project recorded in G. O. N^o 3880
dated 10th December 1864.

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

The

N^o. 216

Letter N^o. 190 of 23 Nov^r from Sup^r Engr^r for
Note by the Acting Chief Engineer for Irrigation

With his Letter N^o. 190 dated 23rd November the
Superintending Engineer of the 5th Division submit
a revised Plan & Estimate of Rs 6210 for the
head sluice of the main channel from the
Palandron Ament with reference to para 8 of
the Chief Engineer's note in Q^o 3880 of 18th Decem^r
1869.

- Enclosures 4
- 1 Letter N^o. 190 dated 23 Nov^r
 - 1 Plan
 - 1 Revised estimate of Rs 6210
 - 1 Specification

2. The Plan is not in accordance with
that forwarded by the Chief Engineer for Irriga
tion on the 15th Decem^r 1869. The deviation
is in the enlargement of the sluice of the sluices
and in the arrangement for working the sluices.
It is not desirable that the sluices should be
enlarged and it is necessary that the platform
from which the sluices are worked should be
above the highest watermark. The arrangement pro
posed in the Plan submitted by the Superin
tending Engineer is inadvisable as the platform
from which he proposes to work the sluices is
1 1/2 to 6 1/2 below the level of the normal water level.
flords

Engr^r of 1869/1870 117 0117

Engr^r of 1869/1870 117 0117

Q^o 3880 of 18 Decem^r 1869

of
the 5th Division

of
the 5th Division

Dated 23rd Novem^r 1871
Dated 23rd Novem^r 1871

of
the 5th Division

of
the 5th Division

of
the 5th Division

of
the 5th Division

of
the 5th Division

Letter N^o. 190 of 23 Nov^r from Sup^rg Engr^s for
Note by the Acting Chief Engineer for Irrigation

With the Letter N^o. 190 dated 23^d November the
Superintending Engineer of the 5th Division submitted
a revised Plan & Estimate of \$6210 for the
head sluice of the main channel from the
Palandron Arment with reference to para 8 of
the Chief Engineer's note in L^o 3880 of 10 December
1869.

- Enclosures to
- 1 Letter N^o. 190 dated 23 Nov^r
 - 1 Plan
 - 1 Revised estimate of \$6210
 - 1 specification

2 The Plan is not in accordance with
that forwarded by the Chief Engineer for Irriga-
tion on the 15th December 1869. The alterations
proposed in the enlargement of the outlet of the sluice
and in the arrangements for working the sluice
It is not desirable that the sluice should be
enlarged and it is necessary that the platform
from which the sluice is worked should be
above the highest water mark. The arrangement pro-
posed in the Plan submitted by the Superin-
tending Engineer is inadvisable as the platform
from which he proposes to work the sluice will
be 1 1/2 to 6 1/2 below the level of the normal and extreme
floods

of the
N^o. 813

the Chief Engineer
5th Division

of the
N^o. 813

of the
N^o. 813

of the
N^o. 813

of the
N^o. 813

of the
N^o. 813

of the
N^o. 813

of the
N^o. 813

12. 21
floods respectively and hence the Shutter could not be worked from the Platform & would be actually inaccessable during floods.

3. The head Sluice should be built according to the Plan sent to the Superintending Engineer from this office. The return wall JK being raised from 9 to 16 or to 6 above the highest water mark the wall should be built to a height of 13 1/2 with a thickness of 4 with offsets of 6 at every 1 1/2 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 percent more Bricks in Chumam work in it than the latter and the rate in the latter was 1 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 Chumam in the amount itself and in all the Subsidiary works.

5. The extra cost of the Sluice in Rs 2320 may be met from the Rs 2600 provided for increasing the storage capacity of the tanks. As far as

para 4 of GO
2887-30 Nov 7

para 6. GO
3880-10 Dec 69

as can be gathered from the papers now submitted no arrangements appear to have been made for providing the storage requisite to ensure the safety of the crops on the lands to be irrigated from the amount or for the passage of the crops drainage and the discharge of surplus at the tail of the canal to which attention was called in the order noted on the margin.

For S. Geog
28 December 1891
Ag. Chief Engineer for Irrigation
J. P. [Signature]
Captain [Signature]

The Secretary to Govt
P.W. Dept

Copy
S
J

drainage and the discharge
 of surplus at the tail
 of the Canal and will
 expedite the submission
 of estimates for providing
 the Storage requisite to
 ensure the safety of the
 crops dependent upon the
 amount.

Handwritten notes and signatures, including "4 Lant."

To the Sup^r & Engineer S^r Govt
 " Rev. Secy
 " Ch. Engineer for S^r Govt
 Dec 22-1-72
 C. B. Lant 172 Or-11

Op-5619

Govt of 1872 Madras.

PUBLIC WORKS.

To the Superintending Eng^r
 5th Division

Dated

Recd.

G. O. 19th Jan 1872 No. 171.

No. 306 @ 308

Palandorai Main Channel.
 Revised Est of Rs 6240 for
 the head sluice of the Palandorai
 Channel, Sanctioned with
 2 marks -

drainage and the discharge
of surplus at the tail
of the Canal and will
expedite the submission
of estimates for providing
the Storage requisite to
ensure the safety of the
crops dependent upon the
irrigation.

Wm. A. Laid
4 Laid
To the Supr & Engineer S. D.
" Controller
" Rev. Dept
" Ch. Engineer for Irrig.

drainage and the discharge
of surplus at the tail
of the Canal and will
expedite the submission
of estimates for providing
the Storage requisite to
ensure the safety of the
crops dependent upon the
irrigation.

Wm. A. Laid
4 Laid
To the Supr & Engineer S. D.
" Controller
" Rev. Dept
" Ch. Engineer for Irrig.