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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	37 - 8	Press
B.P. No.		Mis-
79-80		
Dated	8. 1. 1874.	195-

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
8th January 1874.*

Read the following papers:—

No. 79. From J. W. RUNDALL, Esq., District Engineer, Tinnevely, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Palamcottah, 16th October 1873, No. 108.

I HAVE the honour to forward, herewith, designs for head-slucices to the Cannadien Channel and Marudur Melakal in this district.

Two designs for head-slucices.
Two estimates with details.
Two specifications and reports.

2. The Marudur Melakal Sluice has been altered in accordance with the

instructions contained in your Memorandum, No. 306, of the 15th May.

3. I allowed a small head and considerable area in the original design for the sluice, in order to lose as little head as possible in low freshes.

4. As now designed, the sluice will discharge the required maximum with the water level with anicut crest.

5. The instructions in your second and third notes of Memorandum No. 306 have received attention.

6. With regard to your note 4, the shutters I intended to work on angle-irons, but no separate design was sent for the shutters. They are now able to supply them from the Public Works Workshops on being furnished with the dimensions.

7. Your notes 5, 6, and 7 have received attention.

8. With regard to note 8, I have purposely made the walls of more than usual thickness, the upper surface being very sandy at the site of sluice.

9. With regard to your paragraph 4, I have the honour to state that it cannot be stated with any accuracy what was the precise effect of the absence of a head-slucice during the floods of 1869; for the local floods, added to the Tambrapoorney floods, assisted in breaching many of the tanks; but the only chance of saving the breaching of the tanks on any similar occasion is the construction of head-slucices.

10. The Kilakal Sluice was topped and did not exclude the floods, and the damage done on that channel was equal to, if not greater than on the Melakal.

11. It will be necessary to raise the side walls of this sluice and to provide it with improved shutters; the two sluice floors should, I think, be on the same level, and, as already reported, the Kelakal floor is somewhat lower than the normal level of channel bed.

12. I also forward a design for the Cannadien Channel Head-slucice.

13. For this I have allowed only six cubic yards per hour per acre, because the channel is a much more steadily supplied one, and has much more direct cultivation; there being only a few tanks towards the end which depend on getting a supply during the freshes.

14. When the head-slucices have been constructed, the weirs now used for surplusing will in most cases require alteration, and some even of those which are in bad order and leaky may be removed entirely.

15. I could spend Rupees 6,000 on each sluice next year, if sanction is received in March.

Proceedings of the Madras Government. Public Works Department.
8th January 1874.

No. 835.

No. 79A. Note by the Chief Engineer for Irrigation.

IN G. O., No. 1,945, of the 15th August 1870, it was decided that head-slucies should be provided as soon as possible for the channels leading from the existing anicuts on the Tambrapoorney in Tinnevely, and in March of the current year, as it seemed probable that in the changes which had occurred in the charge of that district the subject might have been overlooked; the District Engineer was requested to report what had been done towards the construction of these sluices. Mr. Randall has now submitted designs and estimates for the Cannadien Anicut Channel which irrigates about 10,000 acres, and for the Melakal or West Channel from the Marudur Anicut, watering 14,400 acres, and the amounts of the estimates are Rupees 6,800 and 12,400 respectively. The designs appear to be capable of improvement, and the estimates of some reduction. Reference has been made to the District Engineer for information to enable revised designs to be drawn up, and I beg to recommend that in order that another year may not be lost, the entry of these works in the Budget at an estimated cost of Rupees 6,000 for the Cannadien Channel Sluice, and Rupees 10,000 for the Marudur Melakal Sluice may be sanctioned.

KISTNA, (Signed) J. MULLINS, Lieut.-Colonel, R.E.,
25th November 1873. Chief Engineer for Irrigation.

No. 80. ORDER THEREON, 8th January 1874, No. 37.

IRRIGATION, No. 7.

THE Government sanction the entry of the following works in the Budget of 1874-75:—

Head-slucie for Cannadien Anicut Channel, Estimate	...	...	...	RS. 6,000
Do. for the West Channel from the Marudur Anicut, Estimate	...	...	...	10,000

both these anicuts being on the Tambrapoorney River in the Tinnevely District.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secretary to Government.

To the District Engineer, Tinnevely.
.. Chief Engineer for Irrigation.
.. Officiating Controller of Public Works Accounts.

Exd. W. H. French.
Spare Copies.

108

Tinnevely District Engineer's Office.
Palamallah. 16th October 1873

J. W. Minotall, Esq.
District Engineer
Tinnevely

Lt. Col. J. Mullins R.E.
Chief Engineer for Irrigation
Madras

Enclose 6.

- 1 Design for Head Sluice
- 2 Estimates with details
- 3 Specifications & Reports
- 4
- 5
- 6

Sir, I have the honor to forward herewith designs for Head Sluices to the Cannadien Channel and Marudur Melakal in this District.

The Marudur Melakal Sluice has been altered in accordance with the instructions contained in your Memo No. 306 of the 15th May.

I allowed a small head and considerable area in the original design for the sluice in order to lose a little head as possible in low freshes.

The new designed the sluice will discharge the required maximum with the water level with anicut crest.

The instructions in your 2nd and 5th notes have received attention.

With regard to your note 4, the shutters I intended to work on angle iron but no separate design was sent for the shutters. They are now able to supply them from

from the Public Works workshops are
being furnished with the dimensions.

7 Your notes 5, 6 and 7 have received
attention.

8 With regard to note 8 I have pur-
posely made the walls of masonry than
usual thickness, the upper surface be-
ing very truly a ^{vertical} side of sluice.

9 With regard to your remarks in
the honor to state that it cannot be
stated with any accuracy what was the
precise effect of the masonry in the
sluice during the floods of 1869, for the
local floods, ascribed to the masonry
floods assisted in breaching many
of the banks, but the only chance of
saving the breaching of the banks on any
similar occasion is the construction of
Head Sluices.

10 The Kilahat Sluice was topped
and did not exclude the floods and
the damage done on that channel was
equal to, if not greater than on the masonry.

11 It will be necessary to raise
the side walls of this sluice and to
provide it with improved shutters;
the two sluice floors, should I think
be on the same level, and as already re-
ported, the Kilahat floor is somewhat
lower than the normal level of channel

bed.

12 I also forward a design for the
Kilahat channel Head Sluice.

13 As this I have allowed only 6 cu-
bic yards per hour per acre, because the
channel was much more steadily sup-
plied ^{and} has much more direct cal-
culation, there being only a few tanks
towards the end which depend on getting a
supply during the freshes.

14 When the Head Sluices have been
constructed, the masonry used for
surplusing will in most cases require
alteration, and some even of these
which are in bad order and likely may
be removed entirely.

15 I could spend Rs. 6000 on each
sluice next year if sanction is received
in March.

I have the honor to be
Sir

Your most Obedient Servant

H. W. Randall

District Engineer

Note by the Chief Engineer for Navigation.

The Government Order. No. 1945 of the 15th August 1870 it was decided that head sluices should be provided as soon as possible for the channels issuing from the existing Ancients on the Tambourny in Timmerloch, and in March of the current year, as it seemed probable that in the changes which had occurred in the charge of that District the subject might have been overlooked, the District Engineer was requested to report what had been done towards the construction of these sluices. Mr. Randall has now submitted designs and estimates for the Canadian Ancient Channel, which irrigates about 10,000 acres, and for the Mielake or West channel from the Marauder Ancient, watering 14,400 acres, and the amounts of the estimates are Rupees 6,800 and 12,400 respectively. The designs appear to be capable of improvement and the estimates of some reduction. Reference has been made to the District Engineer for information to enable

revised

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Vol. 1792
The 10th. 1792

St. Louis
St. Louis
St. Louis

Dec. 16th 1893.
 Dec. 21st 1893.
 Dec. 6

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[Faint handwritten notes, possibly "P. M. 6.08"]

revised designs to be drawn up, and I beg to re-
commend that, in order that another year may
not be lost, the entry of these works in the Bud.
get at an estimated cost of Rupees 6,000 for the
Cannadin Channel sluice, and Rupees 10,000
for the Marudur Neelahal sluice may be
sanctioned.

Office of the Ch. Eng^r } W. Mullins Asst. Comm^r
for Irrigation }
Dated 25th Nov^r 1873 } Chief Engineer Irrigation

To The Secretary D. G. O.
P. M. O.

The Government sanction the entry
 of the following works in the Budget of
 1874-75

Head office for Canadian Ancient
 Channel ^{Stimuli} ~~Stimuli~~ ^{6,000} ~~6,000~~

Head office for the West Channel
 from the Canadian Ancient ^{10,000} ~~10,000~~
 both these Ancients being on the Tundra
 among rivers in the Linnerville District.

May. 25/11/73

It is recommended that all amounts for
 1874-75 ^{10,000} ~~10,000~~ ^{2,000} ~~2,000~~

P. B. 1873, 1874, 1875
 from the Chief Engineer
 of the Secretary to
 the Government
 2. 1873

Added 25th November
 1873 & 4th December 1873
 Decided 6th —

to 37.8" May/74.
 Note on the Estimate for
 Head Office to the Can-
 nadian and Head Office
 of the Linnerville District
 and recommend the
 entry of these works in
 the Budget. Budget
 at an estimated cost of
 Rs 6000 and Rs 10000
 respectively —

C 1079

No 37 P. W. Dept.

Proceedings of the Madras Government

Read the following

From the Chief Engineer
for Irrigation (H. E. No 5358/25th Nov 1873)

The Government sanction the
entry of the following works in the
Budget of 1874-75.

Head sluice for Cannastien
Ancient channel, estimate Rupees
6000.

Head sluice for the west channel
from the Marudur Ancient, esti-
-mate Rupees 10000.

both these Ancients being on
the Tambapany river in the
Sivacvelly District.

To The Dy. Commr. Sivacvelly ✓
" Chief Eng. for Irr. ✓
" Controller ✓

Despatch 9/1/74

By 26/1/73

Ch 6598
Govt. of 1873 Madras.
PUBLIC WORKS.

To The District Eng.
Tinnevely

Dated

Recd.

Encl. /

G. O. 8th Jan 1874 No. 34.

Nos. 79280

Irrigation. Sanctioning entry
in the Budget of 1874/75 of
Head Stices for certain
Channels in the Tamba-
hoorney river, Tinnevely
etc.