(1) Number of pages _____

(2) Date of report _____

(3) Initials of the Reference _____

# MADRAS RECORD OFFICE.

## Government of Madras.

_____ DEPARTMENT.

G.O. No. _____ Press Mk.

Dated _____ 19 .

*Not to be folded or roughly handled*

Read the following papers :—

No. 356. From the Acting Superintending Engineer, 1st Division, to the Chief Engineer for Irrigation, dated Camp at Waltair, 4th March 1871, No. M.

I HAVE the honour to forward designs, etc., together with estimates, amounting to Rupees 6,310, for restoring the masonry works at the end of the Samulcottah canal damaged by the heavy rains of last October, and examined by you during your late tour of inspection.

1 Survey.
1 Plan of Sluice.
1 Do. of Escape.
1 Abstract Estimate.
1 Specification.

2. It is proposed to discharge the quantity of water required for the Cocanada Junction Canal through a sluice, and not to use this work again more than may be absolutely necessary as a surplus channel, an arrangement which is very objectionable. To rid the Samulcottah canal of surplus drainage waters it is proposed to lower the parapet wall on the right bank of the Bhimaveram aqueduct, and dischargethis direct into the Yellaira river. The design has been prepared according to theinstructions given by you on your late visit.

3. In the event of the estimates being sanctioned, I request you will be good enough to telegraph direct to Captain Hasted to begin operations, as I am just now on a tour of inspection in Vizagapatam and Ganjam, and it is advisable to have the works completed before the next monsoon season.

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No. 357. Note by the Acting Chief Engineer for Irrigation, dated 20th March 1871, No. 75.

The estimates submitted with the above letter are for carrying out the works described in paragraph 24 of Major Mullins' memorandum * of inspections in the Godavery Delta, namely, (1) a new drop weir at the end of the Samulcottah canal to replace the weir destroyed during the heavy rains of last October, and (2) lowering one side wall of the aqueduct which carries the same canal over the Yellairu. The first is necessary for the working of the canal, and the second is recommended as affording additional escape for flood water accumulating at this end of the canal.

* No. 62, dated 2nd instant.

2. On examination of the drawings, I note the following :—

*Drop Weir.*

(1.) The section proposed for the body wall as well as the general profile of the work is not strong enough. I have sketched on the drawing and have noted in the specification the alterations I consider necessary.

(2.) The central pier might be omitted with advantage; one shutter for the full opening could be worked without any difficulty.

(3.) Concrete is not provided for the foundations; it is expected that only good firm soil will be met with; if it should turn out otherwise, a bed of concrete sufficiently broad and thick will have to be laid under the body wall and wings.

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

3. The above alterations in the design of the drop weir, together with increased rates for a better kind of masonry, will raise its cost to Rupees 2,650.

4. For stone pitching to the sides of the Vellaru above and in rear of the water-cushion side-walls (which does not appear to be adequately provided for) I have added Rupees 280, making the total of the estimate for the escape Rupees 4,200.

5. The cost of the drop weir, namely, Rupees 2,650, being for renewal, should be met from the ordinary Budget grant for Agricultural Works. That of the escape, Rupees 4,200, is properly chargeable to Loan Funds.

(Signed) J. G. RYVES, Captain, R. E.,
*Acting Chief Engineer for Irrigation.*

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No. 357A. ORDER THEREON, 24th April 1871, No. 1,149.

IRRIGATION, No. 22.

THE revised estimate of Rupees 2,650 for the drop weir is sanctioned.

2. The cost of converting one side wall of the Bhimaverare aqueduct into an escape being properly chargeable to Loan Funds, the estimate (Rupees 4,200) for that work will be submitted to the Government of India for sanction.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
*Secretary to Government.*

To the Acting Superintending Engineer, 1st Division.
" Controller of Public Works Accounts.
" Acting Chief Engineer for Irrigation.

Letter from the Superintending Engineer 1st Division
to Board dated 10th April 1871

No 15

The estimates submitted with the above letter
are for carrying out the works described in para
4 & 5 of Major Hurlbut's memorandum of inspec-
tion of the Godavery Delta, viz (1) a new Drop
weir at the end of the Samulcotta Canal to
replace the weir destroyed during the heavy rains
of last October, and (2) lowering and side walls
of the aqueduct which carries the same canal
over the Yellaru. The first is necessary for
the working of the canal, and the second is
recommended as affording additional escape
for flood water accumulating at this end
of the canal

2 On examination of the drawings, I
note the following.

Drop Weir

(1) The section proposed for the body walls
as well as the general profile of the work is
not strong enough, I have sketched on the
drawing and have noted in the specification
the

the alterations I consider necessary

2.) The central pier might be omitted with advantage; the shutter for the full opening could be worked without any difficulty

3) Concrete is not provided for the foundations; it is expected that only good sound rock will be met with; if it should turn out otherwise, a bed of concrete sufficiently broad & thick will have to be laid under the body wall and wings.

3. The above alterations in the design of the Sluice will together with increased rates for a better kind of masonry will raise its cost, to Rupees 26500.

4 For stone pitching to the sides of the upstream abut and in rear of the water curtain sidewalls (which does not appear to be adequately provided for) I have added Rupees 280 making the total of the estimate for the escape Rs 4200.

5 The cost of the Sluice will viz Rs 26500 being for renewal should be met from the ordinary Budget grant for Agricultural works. That of the escape Rs 4200 is properly chargeable to Loan funds.

I am Sir Your Obt Servt
Captain R.E.
20th March 1871 Executive Engineer for Irrigation.

The Secretary to Govt NW Provs

No 357
Rs Mail Sept 2 1871

Copy of Engineer's Office No
Calcutta Harbour.
No
Dated March 1871.

From
The Deputy Superintending Engr.
1st Division.

To
The Chief Engineer for Irrigation
Madras.

Sir,

I have the honor to forward a design
& estimate with Sketch & Memorandum
No 6310 for restoring the necessary works
at the head of the Cauvery Coleroon canal, da-
maged by the heavy rains of last October
and examined by you during your late
tour of inspection.

2. It is proposed to discharge the re-
quisite quantity of water required for the Coca-
nada Junction canal, thro' a sluice and
to use this work again here, now only be
absolutely necessary as a surplus channel,
an arrangement which is very objectionable
to avoid the Cauvery canal of surplus
drainage waters it is proposed to lower

the

Copy of Memorandum
No dated March 1871 forwarding Estimate for Irrigation
from the Secretary to Govt. Public Works Dept.

Dated 20th March 1871
Rec'd 23 March 1871
Read 24 March 1871
No 15
Encl 7 Plans

Note on the estimates submitted by the Superg Engr 1st Div. for the restoration of the masonry works at the end of the Cauvery Coleroon canal damaged by the late heavy rains. 1150

Rs 11497 = 22 April 1871

the parapet wall on the right bank of the Dharmavaram Cgue Irch and discharge this direct into the Pullaroo river, the design has been prepared, according to the instructions given by you on your late visit.

2. As the month of the estimates being much advanced, I request you will be good enough to telegraph direct to Captain Hobbs to begin operations as I am just now on a tour of inspection in Vizagapatam and Ganjam and it is advisable to have the works completed before the next monsoon season.

I have the honor &c
Sir,
Your most obedt. Servt.

Wm. T. Taylor Major RE

Offg Superintg Engineer 1st Div.

R. G. Bluck Esqr. Secy. to Govt.

To the Supt. Engr.
Surl. Divn. Dept.
No 75 dt 20 March 71.

From Rt. Hon'ble Governor
&c &c &c Supt. Engr.
1st Division

To the Chief Engineer
for Irrigation
No. 76 Madras
Dated 4th
Rd 8 March.
P.N. 1567/71.

Forwards for sanction
plans & estimates, regarding
the restoration of the
masonry works at the
head of Lawrence's Canal
damaged by the late
heavy rains and re-
quests to be telegraphed
to (copy) Board's &
Engr's proceedings on the
receipt of Estimates being
Sanctioned
No 1149 & 1150 - 2nd April 71

No 356

Public Works Department

No 1149.

Proceedings of the Madras Government

Under date the

Read the following

From The Offg Chief Engr
for Irrigation } No 75 dt 20th March 1871

The revised estimate of Rs 260
for the Diop Weir is
sanctioned.

The cost of connecting
one side wall of the
Shiruveriam Aqueduct
into an escape bearing
property chargeable to
Local Funds, the estimate
(Rs 200) for that work
will be submitted to
the Government of India
for sanction.

To The Supt Engr 1st Qu
" Controller P. Wks Accts
" Offg Chief Engr for Irrign

No. 1150

The Secy: to the Govt. of India P. W. D.

Sir,

I am directed to submit for the consideration of the Government of India an estimate amounting to Rs 1,200 for converting into an escape weir one weir wall of the aqueduct which carries the Somalcotta Canal over the Gollaveru. The proposed weir is situated immediately above the double lock at the head of the Long high level Canal. Both these locks are reserved Boat Establishments and Somalcotta, and the object

of the proposed work is to afford additional facilities for local flood water accumulating at this end of the Canal.

2. The lowered crest will be 2 feet wide and the overfall will be protected over the water-portion on the bed of the Gollaveru by the side stones of the aqueduct. The additional discharge of flood water proposed will be that due to a depth of 2 feet passing over a 90 feet weir.

3. This estimate should be grouped with the general estimate for

for the completion of the
Canals of the Godavery
Eastern Delta, which
have been already
submitted for revision.

27-8-71

Desp. 1/8/71 with two
plans, one labelled, viz.
Specifn & Estimate
Ellore Canal
Copies & Recd with G.O. dated 6 Jany 72

Rec'd 18 April 71 No 220 - 221

for the completion of the
Canals of the Godavery
Eastern Delta which
have been already
submitted for sanction.

W. [illegible]

Copy

Govt of 1871 Works.

PUBLIC WORKS.

From Ag Superintending Engr
1st Division
and
To The Secretary to the
Govt of India

Dated

No. 3

Dated 22nd April 1149-1150

Nos. 356-357 & 358

Despatched 1/6/71 with the
Plan, one Schedule, one
Specification & Cost in Lots
1149 of 1871.
Copy to Secy
Recd with G.O. No 1620 - 6 June/71