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(2) Date of repair _____
(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1597	Press
B.P. No.		Mis.
Dated	7 - 6 -	195
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*Proceedings of the Madras Government, Public Works Department,
7th June 1875.*

No. 156.

Read the following:—

No. 557.

Note by the Officiating Chief Engineer.

THE following estimates have been received from the District Engineer, Cuddapah.

Repairing Ganjicoontah Anantharayan Tank	...	...	Rupees 2,390		
Ayacut area {	Government	...	...	Acres 105	
	Inam	...	...	...	„ 65
„ assessment {	Government	...	...	Rupees 531	
	Inam	...	...	...	„ 411
Average revenue	...	...	...	...	„ 574
Highest „	...	...	...	...	„ 766

2. This tank breached presumably last October, and apparently it might have been saved by a little attention on the part of the villagers; for, as described in the report, the accident resulted from the water escaping over low ground at the junction with the hill at the west end, and this water, impinging on the rear slope of the bund close by, cut it away and occasioned the breach. From the sections of the bund it is clear that the erosion must have taken a considerable time. On the other hand, the quantity of water discharged at this point must have been so small as to be immaterial to the relief of the tank, and a small bank thrown across the low ground would have saved the tank. The value of this saving bund would have been 2 or 3 Rupees, and it would have rendered 1,500 Rupees out of the above estimate unnecessary. The proper escape for surplus is by a detached opening 75 to 80 feet wide. The catchment basin is 12 square miles, a very ample area for the 170 acres of the ayacut. In order to make the tank safe in the future it is intended to lower the sole of the escape passage from 40.93 to 38.70, which will reduce the full tank level 2.23 feet, but still, it is said, allow of the tank retaining more than enough water for the lands under it, and other tanks below will probably benefit by this alteration. The width of the surplus channel

• 3,537 Cubic feet a second.

is also to be increased to 100 feet, and it is estimated that a maximum flood discharge*

will be disposed of by a depth of 4.70 feet passing through this opening, so that M. W. L. will be 43.40, the highest level attained in October last. It appears to be contemplated to make the bund at the breach 46.50, which will suffice if care be taken that every part of the bund below 45.00 is quite water-tight. No part of the bund also should be left lower than 46.50, and the settlement of the new earthwork at the breach must be made good, or probably it will be needful, in the first instance, to make the bund here $2\frac{1}{2}$ feet above the intended level, but without any increase to the width of the base, so that after settlement the proposed section may be approximated to. The rate $2\frac{1}{2}$ Annas for earthwork, with a lead of 200 yards and lift of $5\frac{1}{2}$ yards, appears to be somewhat low. It will be satisfactory if the work can be well done at this rate. The way in which the very complete information on which the estimate has been prepared has been exhibited is very creditable.

Clearing Pullavole channel	...	...	Rupees 2,380
Ayacut area	...	...	Acres 536
	...	...	" 1,279
Average revenue	...	...	" 1,236
Highest "	...	...	" 1,403

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Proceedings of the Madras Government, Public Works Department,
7th June 1875.

3. No repairs have recently been carried out. This channel was constructed on an estimate (including head-sludge) of Rupees 3,520, sanctioned in G. O., 4th March 1857, District Engineer's No. 931, 14th August 1874. No. 414. For its repair an estimate, amounting to Rupees 6,670, was at first submitted, but material modifications of cross section appeared to be feasible, and the reduced estimate is the result partly of alterations of slope, and partly because some work has in the meantime been done by the villagers. In the letter of August last it was mentioned that the flood of 1863-64 in the Pennair had destroyed the channel and rendered the extensive clearance or virtual re-excavation necessary. Also that the ayacut before the channel was cut was 412 acres with a revenue of Rupees 804, and it appears from the report on which the channel was sanctioned that Rupees 1,305 additional revenue were expected to be realized. These expectations have not been fulfilled, but still the channel has been, it would seem, a useful work.

4. Since 1863-64 the revenue has been yearly some 330 Rupees less than during the six years subsequent to the construction of the channel, so that clearly putting it to rights will be very beneficial.

5. The level of the head-sludge is sufficiently high to exclude maximum floods, and there will be no difficulty in making the spoil banks quite high enough (say $4\frac{1}{2}$ feet above M. F. L. as a minimum) to prevent the head-sludge being turned. Some arrangement should be made with the villagers interested for regulating the head-sludge during high freshes. The deep bed of the Pennair is nearly $4\frac{1}{2}$ feet below the sill of the sludge, so that it will be only occasionally that the shutters will have to be put down.

6. Sections, &c., of channels should not be drawn upon rotten machine-made paper. They are much too valuable, and such paper should be used only for documents of very temporary utility.

OOTACAMUND,
22nd May 1875.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Officiating Chief Engineer, P.W.D.

No. 157. ORDER THEREON, 7th June 1875, No. 1,597.

IRRIGATION, No. 13.

THE following repair estimates of
Irrigation works in the Cuddapah District
are sanctioned:—

Ganjicoontah Anantharayan Tank	...	...	...	Rs. 2,390
Pullavole Channel	...	...	...	" 2,380

(True Extract.)

Major, R.E.,

Offg. Joint Secretary to Government.

To the District Engineer, Cuddapah.
" Chief Engineer for Irrigation.
" Controller of Public Works Accounts.

Exd. E. C. Shunker.
Spare Copies

enclosure
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Irrigation. W-557. 3 X
Note by the Offg. Chief Engineer

The following estimates have
been received from the District Engineer,
Cuddapah.

Repairing Ganjicoontah Anantharayan Tank - Rupees 2,390.
Ayacut area acres { Govt 105
Inam 65
" Assessment Rupees { Govt 531
Inam 411
Average revenue 50 594
Highest do " 766

This tank breached, presumably last October, and apparently it might have been saved by a little attention on the part of the villagers, for, as described in the report, the accident resulted from the water escaping over low ground at the junction with the Lill at the west end, and this water, on the rear slope of the bund close by, cut it away, and occasioned the

the breach. From the sections of the
bund it is clear that the erosion must
have taken a considerable time. On
the other hand the quantity of water
discharged at this point must have
been so small as to be immaterial
to the relief of the tank, and a small
bank thrown across the low ground
would have saved the tank. The value
of this saving bund would have been
2 or 3 Rupees, and it would have rendered
1,500 Rupees out of the above estimate
unnecessary. The proper escape for
surplus is by a detached opening
45 to 80 feet wide. The catchment
basin is 12 square miles, a very
ample area for the 140 acres of the
aqueduct. In order to make the tank
safe in the future it is intended
to lower the sole of the escape passage
from 40.73 to 38.70 which will reduce
the full tank level 2.33 feet, but
still,

3527 C.F.
a second

still, it is said, allow of the tank
retaining more than enough water
for the lands under it, and other
tanks below will probably benefit
by this alteration. The width of the
surplus channel is also to be increased
to 100 feet, and it is estimated that
a maximum flood discharge will be
disposed of by a depth of 4.70 feet passing
through this opening, so that M.W.L.
will be 43.40, the highest level at-
tained in October last. It appears
to be contemplated to make the bund
at the breach 46.50, which will
suffice if care be taken that every
part of the bund below 45.00 is quite
water tight. No part of the bund
also should be left lower than 46.50,
and the settlement of the new earth
work at the breach must be
made good, or probably it will be
needed in the first instance to make

make the bank here $2\frac{1}{2}$ feet above the intended level, but without any increase to the width of the bed, so that after settlement the proposed section may be approximated to.

The rate to be paid for a 1st class work with a lead of 200 yards and lift of 5³ yards, appears to be somewhat low. It will be satisfactory if the work can be well done at this rate. The way in which the very complete information, on which the estimate has been prepared, has been obtained, is very creditable.

3. Clearing Pullavate Channel Aug 30

Bycut area	acres 536
Assessment	Rupers 1277
Average Revenue	" 1236
Highest do	" 1403

The repairs have recently been carried out. This channel was constructed on an estimate (including head office) of

Rupers

St. George's 20981-14 Aug 74

Rupers 3,530 sanctioned in S.O. 4th March 1857, No 414. For its repair an estimate amounting to Rupers 6,670, was at first submitted, but material modifications of cross section appeared to be feasible, and the reduced estimate is the result partly of alterations of slope, and partly because some work has in the meantime been done by the villagers. In the letter of August last it was mentioned that the flood of 1863-64 in the Pannour had destroyed the channel and rendered the extensive clearance or virtual reexcavation necessary. Also that the bycut before the channel was cut was 412 acres with a revenue of Rupers 804 and it appears from the report on which the channel was sanctioned that Rupers 1,305 additional revenue were

were expected to be realized. These ex-
pectations have not been fulfilled,
but still the channel has been it
would seem a useful work.

Since 1863-64 the revenue has been
yearly some 330 Rupees less than
during the 6 years subsequent to the
construction of the channel, so that
clearly putting it to rights will
be very beneficial.

The level of the head sluice is suf-
ficiently high to exclude maximum
floods, and there will be no difficulty
in making the spoil banks quite
high enough (say $4\frac{1}{2}$ feet above M.F.L.
as a minimum) to prevent the
head sluice being turned. Some ar-
rangement should be made with the
Villagers interested for regulating
the head sluice during high freshes.

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The deep bed of the Pennair is nearly 14 feet
 $4\frac{1}{2}$ feet below the sill of the sluice, & evenment
so that it will be only occasion-
ally that the shutters will have
to be put down.

Sections of Channels should
not be drawn upon rotten ma-
chine made paper. They are
much too valuable, and such paper is
1922 should be used only for documents of very temporary utility.

Chambers in at
all the sluices
to be kept in
good order
to prevent
the sluice
from being
turned

Lt. Col. R. B.

Chief Engineer
S. B. B.

To the offg. Secretary to Govt.
S. B. B.

Sub. No. 2370
L. 2380

P. W. 1895 dep

No: 3522

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The Chief Insp. of
Irrigation

Dated 22 May
Recd. 24 June 1897

S. 12 No. 557

Note on estimates
submitted by the
Dist. Engr, Cuddalore
for the repairs of
Pani tanks in the
Proddahur Taluk.

S. B. No: 1597. 7-6-75

P. H. Dept
Proceedings of the Madras Government
Read the following:-

From the Chief Engineer }
for Irrigation } C.E. No 537 of 22 May/75

G.O. No: 1597 of 7th May/75

The following repairs
estimated of Irrigation
works in the Cuddalore
District are sanctioned.

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Ganjicoottah
Anantharayan Tank - Rs 2370
Pullavole Channel - 2380

D. Engr Cuddalore ✓
Chief Engr for Dist ✓ with
C. Engr ✓ 12 Encls
S. C. No: 1597 - 15-6-75

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Gobt. of Madras.
PUBLIC WORKS.

The Lt. Mg. R.
Cuddapah

Dated

Issued

Recd.

Encl.

G. O. *June* No. 1597

No. 156 - 157

Ganjicoontah Anantharajan
Tank and Pullavole Channel

Cuddapah. — Estimates
amounting to Rs. 4770 for
repairs to the ———, sanctioned