

Enclosure 8.

Note by the Chief Engineer for Irrigation

Land No 2134-26 Sept
do - - - 1070-16 Sept
Irrig - - - 27 Sept 14 Oct

The following estimates have been submitted by the Superintending Engineer, Chief Engineer

1. Mithayapaikam Tank, Repairs, Rupees 100

Ayacut area Acres 24

Assessment Rupees 77

Average revenue " 106

Highest do " 136

Rupees 331 were expended on repairs in 1877/78

The tank has a catchment basin of $\frac{3}{4}$ of a square mile, it was badly damaged and breached in 1872 and again in 1874, the outlay incurred, in 1873/74, having been confined to simple repairs. It has a catwalk 15 feet long, with upright stones which are to be removed, and the future safety of the tank is to be secured by lowering 60 feet of the bund to 1 foot above F.T.L.

N^o 3009. 18 Oct 77 2.

Mithayapaikam Tank, Repairs, Rupees 750.

Ayacut area Acres 71

Assessment Rupees 280

Average revenue " 260

Expenditure on repairs in the last 4 years Rs 350

The catchment basin is reported to be $\frac{3}{4}$ of

a square mile which is small for the extent of the irrigation. The tank has an escape of some sort specified 25 feet in length and 40 feet additional are to be provided at a cost of Rs 500. As the escape is to be protected by nand planting, double the length should be allowed. It is not stated in the report that the tank breached, but one of the sections indicates that it has been so damaged. The position of the tank has not been mentioned whether has it been stated whether it is connected with other tanks above or below.

3. Goodravajary Hesa Tank, Repairs, Rs 2,050.
Agent area Area 478.
Assessment Rs 1450
Average revenue 1425.

Expenditure on repairs in the last 4 years Rs 700.

The tank has a catchment basin of 2 square miles and a supply channel under regulation from the Narayan river. Care should be taken that the head sluice of the channel is never from being, buried. The tank was breached in the cyclone and the slopes of this and other tanks should be protected as soon as may be by an ample belt of tank grass or nand. The tank has a 60 feet calugulade which will be

be converted into a flush escape and will be supplemented by an escape formerly existing which will be reopened and extended or levelled for a length of 300 feet. The bund is to be 10 feet above F.T.L. which with the large means of disposing of surplus will suffice.

4. Kanagumpat Tank, Repairs, Rs 170.
Agent area Area 47
Assessment Rs 109
Average revenue 102.

There has been no recent outlay

The drainage basin is said to be a quarter of a square mile which is small for the area of irrigation. Surplus having been discharged at a cut only 6 feet wide, the tank breached and the estimate provides for levelling the ground for a length of 23 1/2 feet. As this escape is to be planted, its length had better be made 50 feet.

Shallow tanks of this kind should not have inferior slopes of 2 1/2 to 1. Considerably more than one half of the new earth work shown in the bund section attached to the estimate is unnecessary. Much money will be saved by looking carefully to this point; it is clear planting with nand

or tank grass rather than flat slopes which is required.

5. Goodalone Small Tank, Repairs, Rs 300.

Ayacut Area Acres 215

Assessment Rs 153.

Average revenue " 102

There has been no outlay for a long time.

The catchment basin is 1 square mile and so the full ayacut should be irrigated, there being no tank above. The tank is a member of the Madrauticium group and breached in 1874. The proposed length, 84 feet, of the levelled ground for the discharge of surplus is to be planted and so the length should be doubled.

6. Moorapattam Small Tank, Repairs, Rs 550

Ayacut Area Acres 222.

Assessment Rs 583.

Average revenue " 243.

This tank is in the Madrauticium group.

The drainage basin above it is 3 square miles of which $\frac{2}{3}$ are intercepted by the large tank of the same village and half the ayacut is reported to be swamped by the water spread of the Madrauticium tank. These circumstances indicate that probably the abandonment of this small tank and

and the irrigation of the lands under the larger tank would have been desirable. Some expenditure has been already incurred on emergency and as it is stated that there has been no previous outlay for some 20 years, the estimate being passed, but as has been before pointed out groups of tanks should be taken up as groups, or as in the present case where the group is a very large one, subdivisions of the group should be dealt with and the most made of the water supply and existing means of storage. It is doubtful whether the discharge of surplus over a length of levelled ground will be a satisfactory arrangement for the disposal of so considerable a body of water as the maximum discharge from 3 square miles, but any rate ample water way which should be double that 156 feet proposed will be a great improvement on the altogether inadequate cut of 6 feet in width, by which surplus has hitherto been attempted to be got rid of; the breaching of the tank in 1874 was of course inevitable.

7. Koonamkoolathoor Tank, Repairs, Rs 370.

Ayacut area Acres 125.

Assessment Rs 655.

Average revenue " 139.

The catchment basin is 3 square miles but there are 3 tanks above which intercept part

of Mullu
of P. Sivakum.

7
of the drainage. Half the ayacut is said to be
swamped by the water spread of the Manspitter
Lauki. The circumstances and requirements
of the group should have been enquired into and
provided for. There is said to be waste of money
on tanks which are not required or which if
retained need reformation rather than repair,
so long as connected irrigation works are treated
as though they were isolated. Rupees 26 were
spent on the repair of the slight damage sus-
tained in 1872 and in 1874 the tank breached.
There is an escape opening of 33 feet and 162
feet additional have been provided for. If
the ground require the protection of tanks again
the length of opening must be doubled.

Fort Saint George }
26 October 1878 }

Ans. Scott

Major R.E.

For Chief Engineer for Irrigation

P. M. 1895. Seph

No: 7042

Lam

The Chief Engr.
for Brigation

Dated 26 Oct. 1895.
Recd. L. Dour. 31895.

C. S. No: 1260.

Note on Estimates
for the repair of tanks
in the Chingleput Dist.

No. 3161

P. M. D.

Proceedings of the Madras Govt
6 Nov 75

Read the following

From the Chief Engr for
Brigade } P. S. No 1260 of 26 Oct 75

The following estimates
are sanctioned-

Chingleput District

	Revenue
Atayapallam Tank	Rs 400
Mathuram do	" 750
Gooderangam do	" 2050
Kanagapur do	" 190
Goodalove small do	" 300
Morrapallam do	" 550
Korramkottam do	" 370

The Superintending Engineer
attention should be given to the
remarks in the foregoing

of the estimate, and it will
 be expected that after this mor-
 row full consideration will be
 given to the circumstances of
 all tauts in making provision
 for outlay upon them. Suffi-
 cient allowance has now been
 made for the difficulty experi-
 enced in dealing with large
 numbers of damaged tauts,
 and estimates, the propriety of
 the provisions of which is fre-
 quently doubtful, cannot be
 sanctioned when the emergency
 is past

Wm. C.

Wm. C.

Comtr. Hertz - 2 with 8 Ab. Cates

S. Supr. Chinghaput
 Chief Supr. for Lrr
 Rev. Dep.
 Coll. of Chinghaput

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1875/10/12

of 1875 Madras.
PUBLIC WORKS.

To Cont. R. W. Accts.

11/12

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Issued

By

For

O. O. 6th Nov 1875 - No. 13161

No. 143-143

Tenders, Chingleput Dist.
The estimates amounting
to Rs 4,610 for the repair
of a dam — sanctioned
with remarks.