M.R.O. 1—20,002—12-8-65.

(1) Number of Pages 4

(2) Date of repair 13. 9. 68.

(3) Initials of the Referencer

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No.	2094	Press
B.P. No.		Mis.

Dated 7-10-1875 ~~196~~ .

Not to be folded or roughly handled

Read the following :—

No. 1,044.

No. 454. *Note by the Chief Engineer for Irrigation.*

The following estimates have been submitted for sanction by the Superintending Engineer, Chingleput.

No. 1,926, 17th August. Goodapakum tank, Rupees 3,127.

Ayacut area	...	Acres 306
„ assessment	...	Rupees 915
Average revenue	...	„ 937

The tank was last repaired in 1867 at a cost of Rupees 37.

The area of the catchment basin is reported to be about one square mile, and there is a supply-channel with a head sluice from the Cooum. The present means of disposing of surplus appear to be ample, but they are not convenient, for the crest of the existing calingulah is at 4 feet below F. T. L. It is intended, therefore, to convert this calingulah of 30½ feet into a flush escape, and to build another 37 feet long at the south end of the bund. Judging from a remark at the foot of the report, the additional surplus weir is intended as a safeguard to compensate for probable omission on the part of the villagers to regulate the head sluice of the channel. The bund is to be 5 feet above F. T. L. and 3 feet above M. W. L. The design for the cross section of the new weir is not appropriate and should be revised. The ground at the site is about 3 feet below F. T. L. and if it be necessary to retain this site, either a horizontal or nearly horizontal apron must be added at the foot of the sloping section, so that the water which will acquire a considerable velocity may strike on stone instead of on earth, or the section must be altered to a form of the kind sketched in pencil on the plan. The undermining of the weir, if built as designed, would have been inevitable.

The estimate is divisible as follows :—

Revenue.

		Rs.
Repairing Bund	...	2,170
„ Calingulah	...	68
„ No. 1 Sluice	...	14
„ „ 2 „	...	4
„ Supply-channel	...	464
Sundries	...	30
		2,750

Capital.

Improving Calingulah	...	100
Additional Surplus Weir	...	180
„ Sluice	...	87
		377

a longitudinal section of the tank bund should have accompanied the estimate.

Superintending Engineer's No. 3,164, 24th August.

2. Attangavanoor Tank, Rupees 500.

Ayacut area	...	Acres 71
,, assessment	...	Rupees 197
Average revenue	...	,, 101
Highest ,,	...	,, 200

No repairs have recently been executed.

The area of the catchment basin is reported to be 3 square miles, which should suffice for the irrigation of the full ayacut. It has not been mentioned why the average revenue is so much below the assessment and the highest revenue. If there be tanks above, their names and circumstances should have been reported. There is an escape, 24 feet in length, which being altogether inadequate, several breaches occurred. It is intended to supplement this by levelling the ground—to what level is not stated—for a length of 166 feet, the efficiency of which means of disposing of surplus must depend on the nature of the soil. The whole estimate will be chargeable to Revenue. It may be noticed that this and other petty estimates should be carried out in a couple of months or so, and that the proposal noted on the estimate, to spend only Rupees 124 within the year, is altogether inadmissible.

3. Alinjavakum Tank, Rupees 525.

Ayacut area	...	Acres 92
,, assessment	...	Rupees 221
Average revenue	...	,, 180

No repairs have recently been executed. Judging by the sections attached to the estimate, the bund is in wretchedly bad order. The catchment basin is 2 square miles and the tank has an escape (natural) 40 feet in length. It was breached by the overflow of the Koosastala river, and its future safety is to be provided for by levelling the ground for a length of 105 feet at the south end. The work will all be chargeable to Revenue.

4. Bandikuvanur Tank, Rupees 560.

Ayacut area	...	Acres 187
,, assessment	...	Rupees 491
Average revenue	...	,, 466

Rupees 166 were spent in 1873-74 on repairs. This tank also was breached by the overflow of the Koosastala river. Its catchment basin is reported to be 2 square miles, but the accuracy of this estimate of area is very doubtful, as the irrigation of 85 to 90 acres per square mile of drainage is very improbable, and it will be noticed that a similar area in the case of the Alinjavakum tank irrigates under 40 acres per square mile. These are matters to which the Superintending Engineer's attention should always be given. The existing natural escape, 24 feet in length, is to be supplemented by levelling the ground at the south end of the bund for a length of 121 feet, which will make the tank more safe than it is at present but which may or may not be sufficient. The whole estimate will come under Revenue.

5. There is still considerable room for improvement in the manner of preparing tank estimates in the Chingleput District.

6. Another matter which requires notice is the low rate of wet assessment under some of these tanks, from which it may be concluded that it is very doubtful whether it would not in many cases be much better in every way to abandon them as works of irrigation, and to bring their beds as well as the lands below them under dry cultivation. The area of such tanks probably exceeds that of the ayacut under them, and the wet crops must be very poor to require such a low assessment.

OOTACAMUND, (Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
8th September 1875. *Chief Engineer for Irrigation.*

No. 455. ORDER THEREON, 20th September 1875, No. 2,710.

IRRIGATION, No. 43-A.

Account.

THE following estimates are sanctioned:—

Chingleput District.

		Revenue. Rs.	Capital. Rs.
1.	Goodapaukum Tank	2,750	377
2.	Attangavanoor ,, ...	500	,,
3.	Alinjavakum ,, ...	525	,,
4.	Pandikovanur ,, ...	560	,,

2. The attention of the Superintending Engineer is called to the remarks in the foregoing note and some of these estimates, and the subject referred to in the concluding paragraph should be carefully considered in communication with the Collector.

(True Extract.)

Major-General, R.E.,
Secretary to Government.

To the District Engineer, [illegible].
,, Controller of Public Works Accounts.
,, Chief Engineer for Irrigation.
,, Revenue Department.

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Rec. 1875. Dec
N. 3857.

Subject: (1870) Claims.

PUBLIC WORKS.

THE DISTRICT ENGINEER,

BELLAIRE,

&c., &c., &c.

Oct 6 R

Public Buildings & Grounds

SEPTEMBER

Ens 334456

Report of action taken on the Chesapeake
Marine Railway Company's claim
for [illegible] and returned herewith.

A. 2944 C
Allen Perley
Brevet Maj. Gen.