

14. 13/9

14521/5
 SC Refd Nov-13-10-75
 11-10-75
 SC Drp-
 11-10-75

*
 9-10-75
 *
 13-10-75

Chmleper
 Collr of ~~Barley~~ 5
 S. J. Barry
 Cont. P. bal 5- with 4 A E
 Chmleper for Engw 5- with Ough-
 Rec. Dep't #15
 17

6079
157

Govt. of 1875 Madras.
PUBLIC WORKS.

Chief Engr. for
Madras.

Encl.

G. O. 20/10/75, No. 2710

No. 454-455

Repair of certain tanks in
the Chingleput Dtr.---
Estimates amounting
to Rs. 4712 for the
aforesaid with remarks.

16

*Proceedings of the Madras Government, Public Works Department,
20th September 1875.*

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.

Ayaout 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 :—

<i>Revenue.</i>								RS.
Repairing Bund	...	...	...	...	...	...	...	2,170
" Calingulah	...	...	...	...	...	...	...	68
" No. 1 Sluice	...	...	...	...	...	...	...	14
" " 2 "	...	...	...	...	...	...	...	4
" Supply-channel	...	...	...	...	...	...	...	464
Sundries	...	...	...	...	...	...	...	30
								2,750

<i>Capital.</i>								
Improving Calingulah	...	...	...	...	...	...	...	100
Additional Surplus Weir	...	...	...	...	...	...	...	190
" Sluice	...	...	...	...	...	...	...	87
								377

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

*Proceedings of the Madras Government, Public Works Department,
20th September 1875.*

Superintending Engineer's No. 2,104, 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. Bandikavanur 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

*Proceedings of the Madras Government, Public Works Department,
20th September 1875.*

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.	Capital.
	RS.	RS.
1. Goodapaukum Tank	...	2,750
2. Attangavanoor „	...	500
3. Alinjavakum „	...	525
4. Bandikavanur „	...	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.

Chingleput

To the District Engineer, Bellary.
„ Controller of Public Works Accounts.
„ Chief Engineer for Irrigation.
„ Revenue Department.

Chingleput

Exd. S. T. Austin.

Spare Copies

No 1044.

Note by the Chief Engineer for Irrigation

Dec 6: 9.

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

No 1736-17.

Aug 1.

Goodapatam Tank

Rupces 3,127.

Adjacent area acres 306

" Assessment Rupces 915

Average revenue " 737

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

The area of the catchment basin is reported to be about 1 square mile, and there is a supply channel with a head sluice from the Coam - the present means of disposing of surplus appear to be ample, but they are not convenient for the crest of the existing calingulali is at 4 feet below F.T.L. - It is intended therefore to convert this calingulali of 30 1/2 feet into a flush escape and to build

another 37 feet long at the south end of the band. Judging from a remark at the foot of the report the additional surplus weir is intended as a safety guard to compensate for probable omission on the part of the villagers to regulate the head sluice of the channel. The band is 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 strike on stones instead of on earth, the section must be altered to a form of the kind sketched in pencil.

78 2
on the plan. The undermining of the weir if built as designed would have been inevitable.

The estimate is divisible as follows.

Revenue	
Repairing band	Rupies 2,170
" Calingulali	" 63
" No 1 sluice	" 16
" " 2 do	" 4
" Supply channel	" 464
Sundries	" 30
	<u>" 2,750</u>

Capital	
Improving calingulali	" 100
Additional surplus weir	" 190
" sluice	" 87
	<u>" 377</u>

A longitudinal section of the bank band should have accompanied the estimate.

2104	2- Attaragavansoot Tank. Rupies 500
24" Aug.	Irrigated area acres 71
	" assessment Rs 197
	Average revenue " 101
	Highest do " 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

91 3
the proposal noted on the estimate to spend only Rs 124 within the year is altogether inadmissible.

3. Alinjara Kum Tank Rupees 525.

Ayacut area	acres 92
" assessment	Rupees 321
Average revenue	" 180

No repairs have recently been executed. Judging by the sections attached to the estimate the land 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 Kossatala 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. Baudikaravani Tank Rupees 500

Ayacut area	acres 187
" assessment	Rs 491
Average revenue	" 466

Ruppes 166 were spent in 1873-74 on repairs. This tank also was breached by the over-flow of the Hoosantala 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 Alinjara Kum Tank irrigates under 40 acres per square mile. These are matters to which the Super 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 Bank estimates in the Chingapat 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.

Wanderlustsick of R.H.
Chief Engineer for Irrigation

Coliacum
8th Sep 1853

3. Recd. by: Government
Ref. Dept.

P. W. 1895 Sept.
No: 6079

From

The Chief Engr.
for District

Dated 8 Sept
Recd. 22 - 1895.

~~Secy.~~ No: 1046
E. 10

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

P. 6. 27/10. 20-5-95.

14452.

No 2710 P.M. ~~Mr.~~
Pro: of the Madras Government
Under date the 20 Sept 95
Read the following:-
From
The Ch. Engr. for District (H. E. 10447 & Sept 95)

The following estimates
are sanctioned.

Chingleput District

	Revenue - Capital
1. Goodapantam Tank	Rs. 2750 - 344
2. Attangavanur "	" 500 - -
3. Shrivara Ram "	" 525 - -
4. Bandi Ramur "	" 560 - -

The attention of the
Superintendent is called
to the remarks in the
foregoing note on some
of these estimates and the
subject referred to in the
concluding paragraph