

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.

B.P. No.

Press

~~Mis.~~

Dated

1875

Not to be folded or roughly handled

Read the following —

No. 200

No 334 Note by the Chief Engineer for Irrigation

THE following tank estimates have been submitted for sanction by the District Engineer, Kurnool.—

Karumunchy Tank	Rupees 700
Ayacut Area	Acres 32
Do Assessment	Rupees 205
Average Revenue	191

No record of date and cost of last repairs The bund is shown to be in wretched order Otherwise the existing escape, 80 feet long, would have saved it from breaching This escape is reported to be in an inconvenient position, which has not been indicated on the section, and it is intended to construct another of rough stone 186 feet in length As the drainage basin is only 1 square mile, a length of 150 feet will suffice Its cost may be taken at 200 Rupees The rebuilding of the old revetment is proper, but for so petty a tank additional revetment can probably be dispensed with. The top width of the bund need not be 8 feet, 5 feet will be ample, the rate, $1\frac{3}{4}$ Annas a cubic yard, appears to be high, and as 3 Pies extra are allowed for tamping the former rate should not exceed $1\frac{1}{2}$ Annas a cubic yard at most. The datum on the sections is not referred to any fixed mark or point

No estimate has been submitted for the proposed sluice, the tank has none at present, so that one appears to be required, and a design and estimate should have been, and should now be, sent up for sanction. As revised the estimate will be—

Repairs.

	RS.	A.	P.
Earthwork	150	6	0
Tamping	25	1	0
Rebuilding revetment	45	15	0
Sundries	18	10	0
	240	0	0

Minor New Works.

An escape 150 feet long 200 0 0
The top of the bund will be only 1 foot above maximum water level, but if so maintained it will with the long escape be safe.

2. Umalap Tank, Rupees 980—

Ayacut Area	Acres	{ 67 35 Government 58 48 Inam
Do. Assessment	Rupees	{ 319 Government 44 Inam.
Average Revenue		260

The last repairs were executed in 1869 70 at a cost of Rupees 248

The area of the catchment basin is 3 square miles, and so probably the ayacut is in excess of what the tank can usually irrigate, but the highest revenue, Rupees 393, shows that sometimes this area is exceeded From the section it appears that the tank was not breached, but parts of the bund are very low. It is not

clear why 400 feet of escape altogether are proposed. The length needed for 3 square miles would be about 310 feet. The lengthening of existing escape of 147 feet, therefore, will not be necessary, but the 200 feet of escape over ground left open may be added as proposed, only this ground should be 3 inches higher than the crest of the masonry escape, to lessen wear and tear in ordinary seasons. With these arrangements the capacity of the escapes will be ample. The bund is to be 3 feet above escape crest level, or 2 feet above maximum water level. The estimate provides for raising the revetment to 18 inches above maximum water level, but this is not apparently really necessary, and it will suffice to bring those parts which are low up to that level. Consequently, out of 404 Rupees allowed for this item and backing Rupees 100 may be left in. The lengthening of the masonry escape not being necessary, the item of 214 Rupees on this account and for improvements may be reduced to Rupees 95. The walls of the rear cistern of the sluice need not be as high by about 4 feet, as shown on the plan, the arrangement of the vent is not shown, its area should be much smaller than that of the tunnel. The item for the alteration of the sluice may be reduced to Rupees 160. The estimate will then stand thus —

	RS	A	P
Earthworks			
Rebuilding old revetment	77	3	6
New revetment and backing	65	4	0
Altering sluice	100	0	0
Repairing escape weir	160	0	0
Sundries	95	0	0
	32	8	6
Total	530	0	0

and all the work can be treated as repairs

3 Jolakal Tank, Rupees 520 —

Ayacut Area	Acres	{ 49 62 Government 14 57 Inam
Do Assessment	Rupees	{ 261 Government 15 Inam
Average Revenue	..	390
Highest do	..	466

There is no record of the date and cost of the last repairs executed. The area of the catchment basin is stated to be 7 square miles, and this should suffice to secure a larger area and higher revenue than hitherto. It is proposed to lengthen the existing escapes of 236 feet on differing levels to 380 feet, and to allow 1½ feet to pass over them as a maximum, also to bring the parts of the bund which are below that level to 3½ feet above the full tank level or 19 feet above maximum water level. The bund is under 900 yards in length, and of more than ample width, so that affording a somewhat greater margin will cost but little, and the top of the bund may with advantage be made 4 feet above escape level. The proposed escapes are merely openings, but a pavement 6 feet wide and 1 foot deep of packed stone, sunk flush with the ground, would seem to be desirable, or valuable water may be lost. The discharge probably will not exceed 1,830 cubic feet a second, and a length of 300 feet of escape will suffice. The estimate may be raised by 40 Rupees for additional earthwork, and by 60 Rupees for the

pavement of the escapes, making the total Rupees 620, all of which may be considered to be for repairs

CAMP AT SURYAPULLY, (Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
19th February 1875. Chief Engineer for Irrigation.

No 335 ORDER THEREON, 13th March 1875, No. 709

IRRIGATION, No 24.

The following estimates for the repair and improvement of tanks in the Kurnool District are sanctioned —

	Repairs	RS.
Karamunchy Tank		240
Udamalapad do.		530
Jolakal do		620
	Minor New Work.	
Karamunchy Tank, a new escape		200
	(True Extract)	

Colonel, R.E.,
Secretary to Government.

To the District Engineer, Kurnool.
" Chief Engineer for Irrigation, with ten enclosures
" Controller of Public Works Accounts

Exd S T Austin.
Spare Copies

No 200
Note by the Chief Engineer for Irrigation.

Incls 11.
—

The following Tank estimates have been submitted for sanction by the District Engineer, Kurnool.

Haramunchy tank Repairs 700

Ayachit area acres 32

Afforestation Rupees 205

Average Revenue Rs. 197.

No record of date and cost of last repairs. The bund is shown to be in wretched order. Otherwise the existing escape, 80 feet long, would have saved it from breaching. This escape is reported to be in an inconvenient position, which has not been indicated on the section, and it is intended to construct another of rough stone 186 feet in length. As the drainage basin is only 1 square mile, a length of 150 feet will suffice.

Its

Its cost may be taken at 200 Rupees. —
 The rebuilding of the old revetment is proper, but for so petty a tank additional revetments can probably be dispensed with. The top width of the bund need not be 8 feet, 5 feet will be ample, the rate $1\frac{3}{4}$ Annas a cubic yard appears to be high, and as 3 pias extra are allowed for tamping the former ^{rate} should not exceed $1\frac{1}{2}$ Annas a cubic yard at most. The datum on the sections is not referred to any fixed mark or point.

No estimate has been submitted for the proposed sluice; the tank has none at present, so that one appears to be required, and a design and estimate should have been, and should now be, sent up for sanction. A revised estimate will be

Repairs	
Earth work	Rupees 150-6
Tamping	25-1
Rebuilding revetment	15-15
Sundries	18-10
	<u>210-0</u>

Minor New Works

An escape 150 feet long. — 200

The top of the bund will be only 1 foot above maximum water level, but if so maintained it will with the long escape be safe.

2 Udamalapad Tank Rupees 980

Ayacent area — Acres { 67.35 Government
58.48 Inam

— Appointments Rupees { 319 Government
44 Inam

Average Revenue — 260

The last repairs were executed in 1869-70 at a cost of Rupees 248.

The area of the catchment basin is 3 square miles and so probably the Ayacent is in excess of what the tank can usually irrigate, but the highest Revenue, Rupees 393, shows that some times this area is exceeded. From the section it appears that the tank was not breached, but parts of the bund are very low. It is not clear

clear why 400 feet of escape altogether are proposed. The length needed for 3 square miles would be about 310 feet. The lengthening of the existing escape of 147 feet therefore will not be necessary, but the 200 feet of escape over ground left open may be added as proposed, only this ground should be 3 inches higher than the crest of the masonry escape to lessen wear and tear in ordinary seasons. With these arrangements the capacity of the escapes will be ample. The bund is to be 3 feet above escape crest level or 2 feet above maximum water level. The estimate provides for raising the revetment to 18 inches above maximum W.L., but this is not apparently really necessary, and it will suffice to bring those parts which are low up to that level. Consequently out of 404 Rupees allowed for this item and backing, Rupees 100 may be left in. The lengthening of the masonry escape

escape not being necessary, the item of 214 Rupees on this account and for improvements may be reduced to Rupees 95. The walls of the rear cistern of the sluice need not be as high by about 4 feet as shown on the plan; the arrangement of the vent is not shown; its area should be much smaller than that of the tunnel. The item for the alteration of the sluice may be reduced to Rupees 160. The estimate will then stand thus:

Earth works	44-3-6
Rebuilding old revetment	65-4-0
New revetment and backing	100-0-0
Altering sluice	160-0-0
Repairing escape weir	95-0-0
sundries	32-8-6
Total	530-0-0

and all the work can be treated as Repairs

3 Jolahal Tank	Rupees 520
Agent are — Acres	{ 49.62 Government 11.57 Inam
— — — — — Rupees	{ 261 Government 15 Inam
Average revenue	Rupees 390
Highest do	466

These

There is no record of the date and cost of the last repairs executed.

The area of the catchment basin is stated to be 7 square miles, and this should suffice to secure a larger area and higher revenue than hitherto. It is proposed to lengthen the existing escapes of 236 feet on differing levels to 380 feet, and to allow $1\frac{1}{2}$ feet to pass over them as a maximum, also to bring the parts of the bund which are below that level to 3.4 feet above the F.T.L. or 1.9 feet above maximum water level. The bund is under 900 yards in length, and of more than ample width so that, affording a somewhat greater margin will cost but little, and the top of the bund may with advantage be made 4 feet above escape level. The proposed escapes are merely openings, but a pavement 6 feet wide and 1 foot deep of packed stone, sunk flush with the ground would seem to be desirable or valuable water-way may be lost. The discharge probably will not exceed 1830 cubic feet

feet a second, and a length of 300 feet of escape will suffice. The estimate may be raised by 40 Rupees for additional earth work, and by 60 Rupees for the pavement of the escapes, making the total Rupees 620, all of which may be considered to be for repairs.

Camp at
Survapilly
19th February
1895

Voluntaries Lieut Col. R. E.
Chief Eng. for Irrigation.

To the Secretary to Government.
P. W. D.

C. W. Dept.

Proceedings of the Madras Government
Read the following

From
The Chief Eng^r for Irrigation (H.E. No. 200 of 19 Feb 75)

709

The following estimates
for the repair and improve-
ment of tanks in the
Tirumool District are
sanctioned

Repairs.

Tirumunchy Tank Rupees 210
Udimalapad do ——— 530
Jolukal do ——— 620

Minor New Work

Tirumunchy tank. a new
escape Rupees. 200

To the Dist. Eng^r Tirumool ✓
Chief Eng^r for Irrigation H. B. Esler ✓
Controller of P.W. Accounts ✓

Sept 15-3-75

By 20/7/75

[Signature]

More

P. N. 1875 Delh.
200
Am good for Tirumool
from No. 1258
New land Eng^r for
Irrigation.

To the Secy Govt

at Madras

D. 19th Feb 1875
R. 25 ——— }

Secy

State in the Plans
to be in the repair
to be in the sub of

the Tirumunchy

Udimalapad & Jolukal
tanks in the Tirumool
Dist

R. No. 905. 13-3-75

1875

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d. of 1875; Madras.
PUBLIC WORKS.

The Dt. Insp.
Kurnool

[Signature]

Encl

G.O. 13th March 1875, No. 709

No. 334-335

Is - Estimates for the
improvement of
rain — in the Kurnool
District, sanctioned —