

(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.	2429	Press
B.P. No.		Mis.
Dated	27-8	195
		1874

Not to be folded or roughly handled

12

*Proceedings of the Madras Government, Public Works Department,
27th August 1874.*

Read the following papers :—

No. 669. From the Officiating District Engineer, Salem, dated 9th June 1874, No. 48.

No. 414.

No. 670. *Note by the Chief Engineer for Irrigation.*

Kanamanthoor tank.—Estimate Rupees 768.

Ayacut Revenue	...	...	...	...	...	Rupees 460
Do. Area	...	...	...	...	...	Acres 96
Average Revenue	...	...	...	...	...	Rupees 459
Expenditure in and since 1871-72	...	...	...	...	...	„ 210

The tank is reported to have been extensively breached by the bursting of five tanks lying above it in the same valley or catchment basin, the area of which is stated to be 18 square miles. It has a surplus weir 120 feet long. The maximum flood discharge is probably about 3,864 cubic feet a second, and the depth on the weir to discharge this would, with a clear overfall, which is improbable, be about 54½ inches, and as its crest is 6 feet below the intended top of the bund this would leave a margin of only 7½ inches. To make the tank safe 80 feet of additional surplus weir on the same level as the existing escape will be needed, and a proportionately greater length if a higher level be fixed, and this will probably be necessary as the present work is 1½ feet below full tank level. In the next place the five tanks above should be at once rendered safe and efficient, otherwise the next heavy rainfall will breach the whole of them again. It is stated that “for many reasons,” none however being specified, additional length of surplus weir to the Kanamanthoor tank cannot be provided, but a considerable addition being essentially necessary, the difficulties whatever they may be must be surmounted, and the District Engineer should ascertain how this can best be effected. Subject to additional means of disposing of surplus water being given without delay, and to the requirements of the five tanks above being provided for during this year, the estimate may be sanctioned to allow of water being stored for the current year’s cultivation.

2. *Paramoothampully Tank.*—Estimate Rupees 547.

Ayacut Area	...	...	...	...	...	Acres 70
Do. Revenue	...	...	...	...	...	Rupees 288
Average Do.	...	...	...	...	...	„ 251
Expenditure on repairs in and since 1872-73	...	...	...	...	...	„ 127

In this case the breaching in May last appears to be clearly attributable to the inefficient state of five tanks above, which burst and poured their contents into it. The existing escape, 216 feet long, would discharge a maximum flood from the drainage basin of 25 square miles safely, the required depth passing over being about 42 inches and the intended top of the bund 78 inches above the crest. These five tanks, therefore, should be dealt with at once, and subject to this being done, and to their being provided with adequate escapes, the estimate may be sanctioned.

OOTACAMUND,
16th June 1874.

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department,
27th August 1874.

No. 671.

ORDER THEREON, 27th August 1874, No. 2,429.

IRRIGATION, No. 60.

THE following estimates for the repair of tanks in the Salem District, which breached in May 1874, are sanctioned, subject to attention being at once given to the connected work required to prevent future accidents, as specified by the Chief Engineer for Irrigation:—

Kanamanthoor Tank estimate	...	...	...	...	Rupees	768
Paramoothampetty	...	...	...	...	"	547

(True Extract.)

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Joint Secretary to Government.

N^o 414.
Note by the Chief Engineer for Irrigation
Kanamanthoor Tank. Estimate Rupees 768
Adjacent Revenue Rupees 460
— — — area — acres 96
Average Revenue Rupees 459
Expenditure in 1871-72 — 210.
The tank is reported to have
been extensively breached by the
bursting of 5 tanks lying above
it in the same valley or catch-
ment basin, the area of which
is stated to be 18 square miles.
It has a surplus weir 120 feet
long. The maximum flood
discharge is probably about
3864 Cubic feet a second, and
the depth in the weir to dis-
charge this would with a
clear overfall, which is im-
probable, be about 54½ inches,
as its crest is 6 feet below
the intended top of the bund
this would leave a margin of
only 7½ inches. To make the
Tank safe 80 feet of additional
surplus weir on the same level
as the existing escape will be
needed.

needed, and a proportionately greater length if a higher level be fixed, and this will probably be necessary as the present work is $1\frac{1}{2}$ feet below full tank level. In the next place the 5 tanks above should be at once rendered safe & efficient, otherwise the next heavy rainfall will breach the whole of them again. It is stated that "for many reasons, none however being specified, additional length of surplus weir to the Kanamunthor tank cannot be provided, but a considerable addition being essentially necessary the difficulties whatever they may be must be surmounted, and the District Engineer should ascertain how this can best be effected. Subject to additional means of disposing of surplus water being given without delay, and to the requirements of the 5 tanks above being provided for during this year

year, the estimate may be sanctioned to allow of water being stored for the current year's cultivation.

2. Paramoorthampatti Tank, Estimate - Rupees 547.

Byrant area - Acres 70.

— — Revenue - Rupees 288.

Average — do — — 25.

Expenditure on repairs in June 1872-73. Rupees 127.

In this case the breaching in May last appears to be clearly attributable to the inefficient state of 5 tanks above, which burst and poured their contents into it. The existing escape 216 feet long would discharge a maximum flood from the drainage basin of 25 square miles safely, the required depth of paving over being about 42 inches and the intended top of the bund 98 inches above the crest. These 5 tanks therefore should be dealt with at once, and subject to this being

being done, and if they being
provided with adequate ex-
cuses, the estimate may be
sanctioned.

Ostacumund Volundullins. Lf. C.R.S.
16 June 1874
Chief of the Brigade

The Secretary to Govt
P.M.R.

[Faint, mostly illegible handwritten text, possibly bleed-through from the reverse side.]

17.10.79

17.10.79
Ostacumund Volundullins
L. C. R. S.

Chief of the Brigade
P.M.R.

The Secretary to Govt
P.M.R.

[Faint, mostly illegible handwritten text, possibly bleed-through from the reverse side.]

17.10.79

P. W. 1874 Dept:
Proc of Govt for Aug 27 No: 5167A

From

The Chief Engr. for
Irrigation

Dated 16 June 3 1874
Recd 18 Aug 3

E. J.

Q. No: 2629. 27-8-74

Note on the
subject of breached
tanks in the Salem
Dist. the damage
caused thereby to
Railway & other works
and the proposed re-
pairs of the tanks -

CR 670

which
disimportant subject of irrigation
involving tanks of the Providence system
to accident, and of making the affairs upon
them more beneficial has been taken up
in your Circular of 1st June 1874
Ten Circulars No: 48, 53, 61 + 63 dealt
with this question
As the original draft of the order sanctioning
the estimate for the repair of 2 tanks in Salem
indicated, I did not consider it necessary that
Government should enter into particulars
of the course to be followed, but mention them,
nor in a subsequent communication with Colonel
Walker did I consider that there would be any
objection to Government expressing an opinion,
however decided, that the circumstances of
tanks must be considered, and that must
be adapted to those circumstances, on the ground
that such a general order would be embarrassing
to the District Engineer and their assistants.
The matter is essential & not merely desirable
that such consideration of circumstances should
be given, and, so long as Government do not
decide upon a course of action, the District

I am of opinion that a
General order on this subject
will prove subversive,
and hamper Dist. Ings
and Recd. Officers in the
preparation of necessary
Reports, Estimates, with ex-
isting Establishments -

I would leave matters as they are, and trust to the Ch. Insp. for migration ^{as in this case} calling the attention of Officers concerned to the necessity of providing against contingencies as well as immediate require ments. -
Therefore, a demand for a great increase in the establishment may be looked for -

Conr.
25.6.74

[illegible]

For the Council
 19th

Have passed the
 add. Para.

John Dale of Penn
 (a former Ch. Sec. for Ind)
 says that this matter
 is taken up more so-
 tematically & that when
 sanctioning the repair of
 a lower tank to be
 done assured that the
 system has been exam-
 ined that there is a fair
 prospect of stability so
 far as tanks above it
 are concerned

When the
 report has been adopted
 this plan with simple
 success. Result of it
 has doubtless caused
 great loss of money not
 3876.

I think a general circular in the
 hands of the Hon. the Sec. of the Interior
 would be very useful. Of course
 we cannot make the grant of a few hundred
 dollars for the repair of a cracked tank be
 made only after the Hon. Sec. has been
 advised.

The Secretary takes leave
 to circulate the accompanying
 draft, with a note by the
 Chief of Ind. for Ind. previous
 to bringing it into Council
 as ordered by the Right Hon. the

The Governor -
 Lt. Col. Mullins did not ori-
 ginally consider it necessary
 that a Gov. Order should issue
 in the subject of the proper
 treatment of Tank Repairs;
 but he is not averse to such
 strengthening of his hands -
 Colonel Walker, submitting
 his objection, and with refer-
 ence to the Hon. Mr. Mullins
 allusion to the hygienic practice
 he has attention to the fol-
 lowing Extract from the Hy-
 gienic Administration Report
 of 1872-73, showing the cost
 of irrigation works and es-
 tablishments -

	Original	Modified	Expend.
	Grant	Grant	iture.
Original Works	1,32,000	1,65,177	1,14,333
Repairs	3,12,000	2,73,823	1,87,925
Establishments	2,46,000	2,11,000	2,15,474
Tools & Plant	10,000	15,000	10,303
Increase of Stock	—	—	102
	7,00,000	6,65,000	5,28,137

It will be seen that to maintain an estimate adequate to undertake a strictly scientific treatment of the Irrigation Works of Mysore, involves an outlay of 40 per cent in the total Budget Allotment, and little short of 70 per cent in the net Allotment for Works —

Colonel Walker would gladly support Colonel Mullins in his views on this subject, as he would in his proposed arrangement of Ranges in the District of Delta, if they could be carried out with the Establishments allowed to this Presidency. Colonel Mullins's views are strictly correct, and he is thoroughly consistent in his ventilation of them; but they involve remodelling of Establishments as he has laid down in his Protest against the Report of the Pub. Works Commission of 1869. The Govt. have therefore been most cautiously declined to commit themselves to them in their previous orders authorising proposals for increasing the Establishments of the Irrigation Districts, on

The granting of Irrigation Works to the purpose of showing their financial results. L.O. No 1030 of 3rd April 1873 —

Colonel Walker would deplore any premature departure from the policy of these two orders; and would leave the handling of the subject of professional treatment of Public Works to be dealt with by Colonel Mullins, as he is doing in the most able and thorough manner possible, and the result of his Circulars will be made known to the Government.

Colonel Walker (d. P.S.)
Secy to Govt. D.P.W.

Pettkanmed
5th Aug. 1874

It appears from that M. Walker has shown good reason for the omission of the 2nd paragraph of the Draft in section 1 and I have referred it to the subject of that paragraph.

10/8

Public Works Department
 Proceedings of the Madras Government
 Read the following
 2429

From
 The Chief Engineer Salem (H.C. No 48 dated 9th June 1874)
 Do Chief Engineer for (H.C. No dated 16 June 1874)

The following estimates for the repair of Parks in the Salem District, which breached in May 1874, are sanctioned, subject to attention being given to the connected work required to prevent future accidents, as specified by the Chief Engineer for Irrigation

Kanamathoor Park Estimate
 Rupees 768.

Sara Moorthanputt do - - 547.

Wm. 18/6/74
 Commr.

The Chief Engineer for Salem
 Controller of Public Works
 S. C. P. S. 18/6/74

516-A

Copy to Chief Engineer 24-8-74

Wm. 18/6/74
 Comr.

5167 A 48

Govt. of 1874 Madras.

PUBLIC WORKS.



To

The Engineer

Dated

Recd.

Encl. 3

G. O. 27 Aug No. 2429

Nos. 669-671.

On amman thoor & Pairs

so thani pretty Pairs

in the District - Estimates

for the repair of these

Pairs which breached

May 1874, sanction

and with remarks -