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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	584	~~Press~~ <i>Original</i>
~~B.P. No.~~		~~Mis.~~
Dated	2 - 3 -	1875 ~~195~~

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
2nd March 1875.*

Read the following papers —

No 38 From Captain J PENNYCUICK, R E, District Engineer, North Arcot, to Lieutenant-Colonel J. MULLINS, R E, Chief Engineer for Irrigation, dated Vellore, 11th December 1874, No. 2,563.

I HAVE the honor to forward, herewith, the estimates noted in the margin for repair and improvement to tanks in the Polur Taluq

4 Estimates
4 Sections.

Narayanamungalum Tank
Vadagaranummianthal Tank
Eachampoondy Tank
Vannianoor Tank

2 Narayanamungalum Tank, estimate Rupees 610 This tank has a natural catchment basin of about one square mile and a quarter, so that the

surplus to be discharged may be taken at about 655 cubic feet per second for which the length of escape provided, 72 feet, will be sufficient It also receives a supply from the Allabad Anicut, but as this is entirely under control it need not be taken into account Provision is made for one distributing sluice. Rs 340 may be considered as for repairs, and Rupees 270 for new work

3 Vadagaranummianthal Tank, estimate Rupees 1,540 Catchment basin $1\frac{1}{2}$ square miles, surplus to be provided for 737 cubic feet per second, length of escape provided 81 feet The longitudinal section shows the bund to be in very bad order. Rupees 180 out of the estimate is chargeable to Minor New Works, and Rupees 1,360 to Repairs.

4 Eachampoondy Tank, estimate Rupees 570 Area of catchment basin and length of escape provided as for the last mentioned tank. This tank breached in four places in May last, and the bund is throughout in very bad order The estimate provides for a distributing sluice, and the proportion to be charged to Minor New Works may be taken at Rupees 210, leaving Rupees 360 as chargeable to Repairs

5 Vannianoor Tank, estimate Rupees 1,650 Catchment basin about three square miles, surplus to be provided for 1,170 cubic feet per second, length of escape allowed 135 feet Although this tank has not been breached, the bund is in very bad order, and there is room for a considerable increase in the revenue The estimate provides for two distributing sluices, and the proportion to be charged to Minor New Works will be Rupees 530, and to Repairs Rupees 1,120

6 In all the above the bunds are to be made $4\frac{1}{2}$ feet above full tank level, and the escapes have been calculated to make the maximum depth of water on them two feet Loose stone escapes have been provided, these are not altogether satisfactory, but for small tanks, such as those under consideration, they are on the whole the best arrangement possible with our limited funds for improvements

7 I request that the estimates, etc, will be returned when no longer required.

No 165.

No 38A

Note by the Chief Engineer for Irrigation

District Engineer's No 2 563 of the 11th December 1874

THE following estimates have been received from the District Engineer, North Arcot —

*Proceedings of the Madras Government, Public Works Department,
2nd March 1875*

Narrayanamungalum Tank, Rupees 610

Ayacut area	Acres 38
Do assessment	Rs 196
Average revenue	„ 171

The outlay on repairs in the last four years has been Rupees 54.

The tank was breached in May 1874.

The bund is shown to be in very bad order, and the drainage basin being a little over one square mile, the escape, 45 feet in length, needs to be lengthened to 72 feet. From the section it would seem that the tank has no sluice, and the construction of one at a cost of Rupees 150* is proposed.

* Including sundries
The outlay on repairs will be Rupees 460 and on the sluice (capital) Rupees 150, the extension of the dry stone escape may be treated as a repair.

2 Vadagaranummanthal Tank, Rupees 1,540

Ayacut area	Acres 58
Do assessment	Rs 259
Average revenue	„ 256

No repairs have been executed within the last four years

The bund is shown by the section to be in very bad order, and that it breached in three places and at the particular places indicated is not surprising. Surplus water has hitherto been disposed of by cutting the ends of the bund. A dry stone escape 84 feet in length is to be provided, the area of the catchment basin being 1½ square miles. The estimate is divided into—

Repairs	Rs 1,365
Minor New Works escape (capital)	„ 175

3 Eachampoondy Tank, Rupees 570.

Ayacut area	Acres 26
Do assessment	Rs 127
Average revenue	„ 116

This tank breached in four places in May 1874, a result very clearly explained by the section and the absence of any adequate means of disposing of surplus. It is intended to repair the bund, provide a dry stone escape 84 feet long for the area of 1½ square miles drained, and build a sluice, there being no masonry sluice at present. The expenditure will be distributable to—

Repairs	Rs 360
Minor New Works (capital)	„ 210

4 Vannianoor Tank, Rupees 1,650

Ayacut area	Acres 172
Do assessment	Rs. 686
Average revenue	„ 419

No repairs have been carried out for many years

The tank has no escape, receives the drainage of 3 square miles, its two sluices are ruined, and its bund is generally very low, consequently the revenue has fallen off, and the absence of breaches appears to be due to a cut on a low level which prevented the retention of more than a small quantity of water. It is intended to repair the bund properly, provide a dry stone escape 135 feet long, and

*Proceedings of the Madras Government, Public Works Department,
2nd March 1875.*

build two new sluices. The items chargeable to Revenue and Capital, respectively, are—

Repairs	Rs 1,120
Minor New Works (capital)	„ 530

5 At all these tanks the difference between full tank level and maximum full level will be 2 feet, and the bunds will be 4½ feet above full tank level

6 The variations in the acreage cultivated per square mile of drainage basin are worthy the attention of the District Engineer
(Signed) A deC SCOTT, Major, R E,
for Chief Engineer for Irrigation
FORT ST GEORGE,
8th February 1875

No 39 ORDER THEREON, 2nd March 1875, No. 584.
The following estimates are sanc-

IRRIGATION, No 2.

	Revenue charges	Capital charges, Minor New Works.
Narrayanamungalum Tank	460	175
Vadagaranummanthal „	1,365	210
Eachampoondy „	360	530
Vannianoor „	1,120	

(True Extract)

Colonel, R E,
Secretary to Government.

To the Chief Engineer for Irrigation
„ District Engineer, North Arcot
„ Controller of Public Works Accounts

Exd S T Austin
Spare Copies

No. 2563.

From,

North Arcot

District Engineer's Office

Yellore 11 December 1874

The District Engineer,

To,

North Arcot.

The Chief Engineer,

For Irrigation

Madras.

Sirs,

I have the honour to forward here-
with the estimates noted in the margin for
repair and improvement to tanks in the
Polur Taluk.

9. Narayanamangalam Tank. Esti-
-mate Rupees 610. This tank has a natural
catchment basin of about one square
mile and a quarter, so that the surplus to
be discharged may be taken at about
655 cubic feet per second for which the length
of escape provided, 72 feet, will be sufficient.
It also receives a supply from the Albia
-bad Aricut, but as this is entirely
under control it need not be taken into
account. Provision is made for one
distributing sluice. Rupees 340 may
be

Enclosures 8
4. Estimates
4. Sections

Narayanamangalam tank
Vadaganamandal tank
Bachampudi tank
Vannimoor tank

be considered as for repairs, and Rupees 270 for new work.

3. Vadagaranumendal tank. Estimate Rupees 1540 Catchment basin $1\frac{1}{2}$ square miles, surplus to be provided for 737 cubic feet per second; length of escape provided 84 feet. The longitudinal section shows the bund to be in very bad order. Rupees 180 out of the estimate is chargeable to Minor New Works, and Rupees 1360 to repairs.

4. Pachampoonny tank. Estimate Rupees 570 Area of catchment basin and length of escape provided as for the last mentioned tank. This tank breached in four places in May last, and the bund is throughout in very bad order.

The estimate provides for a distributing sluice, and the proportion to be charged to Minor New Works may be taken at Rupees 210, leaving Rupees 360 as chargeable to Repairs.

5. Yunnanoor tank. Estimate Rupees 1650 Catchment basin about three

three square miles; surplus to be provided for 1170 cubic feet per second; length of escape allowed 135 feet. Although the tank has not been breached, the bund is in very bad order, and there is room for a considerable increase in the revenue.

The estimate provides for two distributing sluices, and the proportion to be charged to Minor New Works will be Rupees 530, and to Repairs Rupees 1120.

6. In all the above the bunds are to be made $4\frac{1}{2}$ feet above full tank level, and the escapes have been calculated to make the maximum depth of water on them two feet. Loose stone escapes have been provided; these are not altogether satisfactory, but for small tanks such as those under consideration they are on the whole the best arrangement possible with our limited funds for improvements.

7. I request that the estimates will be returned when no longer required.

Have the honour to be,

Yours most Obedt^t Servant
Lt.
R. E. Captain R. E.
District Engineer.

N^o 165. ...
 Note by the Chief Engineer for Irrigation

The following estimates have been received from the District Engineer North Arcot.

Narayana-mungalum Tank Repairs 670
 Ayaat area — Acres 38
 — — Assessment Papes 196
 Average revenue — — 171

The outlay on Repairs in the last 4 years has been Papes 54.

The tank was breached in May 1874. The breach is shown to be in very bad order, and the drainage basin being a little over one square mile the escape 4.5 feet in length needs to be lengthened to 72 feet. From the section it would seem that the tank has no sluice and the construction of one at a cost of Papes 150 is proposed.

The outlay on repairs will be Papes 460 and — on the sluice (Capital) 150 the extension of the dry stone escape may be

including dies.

To Govt No 1658 & 72/15. ...
 The District Engineer North Arcot

The Chief Engineer for Irrigation
 Madras.

Dated 11th Decr/74
 Recd 14th Decr/74

No 2563.
 Enclosure 8.

Forwarded estimates for repairing certain tanks in the Police Station

Dec 28
 90-584-2-3-75

be treated as a repair.

2. Vaddagaranumminthal Tank Rs. 1540

Aycent area — acres — 58

— " — Affesment Rupees 259

Average Revenue — " — 256

No repairs have been executed within the last 4 years.

The bund is shown by the section to be in very bad order and that it breached in 3 places and at the particular places indicated is not surprising. Surplus water has hitherto been disposed of by cutting the ends of the bund. A dry stone escape 84 feet in length is to be provided, the area of the catchment basin being $1\frac{1}{2}$ square miles. The estimate is divided into —

1. Repairs — Rupees — 1365

Minor new works escape (Capital) — 175

3. Cachimpoondy Tank — Rupees 570

Aycent area — acres — 26

— " — Affesment Rupees 127

Average Revenue — " — 116

This tank breached in 4 places in May 1874

65
1874, a result very clearly explained by the section and the absence of any adequate means of disposing of surplus. It is intended to repair the bund, provide a dry stone escape 84 feet long for the area of $1\frac{1}{2}$ square miles drained, and build a sluice there being no masonry sluice at present. The expenditure will be distributable to

Repairs — Rupees — 360

Minor new works (Capital) — 210

4. Vannianoor Tank — Rupees 1650

Aycent area — acres — 172

— " — Affesment Rupees 684

Average revenue — " — 419

No repairs have been carried out for many years.

The tank has no escape, receives the drainage of 3 square miles, its 2 sluices are ruined, and its bund is generally very low, consequently the revenue has fallen off, and the absence of breaches appears to be due to a cut on a low level

level which prevented the retention of more than a small quantity of water. It is intended to repair the bund properly, provide a dry stone escape 135 feet long and build 2 new sluices. The items chargeable to Revenue and Capital respectively are,

Repairs ----- Rupees 1120
Minor Works (Capital) ----- 530

5. At all these tanks the difference between **F.T.L.** and **M.F.L.** will be 2 feet and the bund will be $4\frac{1}{2}$ feet above **F.T.L.**

6. The variations in the acreage cultivated per square mile of drainage basins are worthy the attention of the District Engineer.

For St. George's
8 February 1875
A. Scott.

Major Col. R.E.
For Chief Engineer for Irrigation.

The Secretary to Government.
P. W. D.

P. W. 1875 Sept
Rev. off for March
15/165 No: 938

From
The Chief Engineer for
Irrigation

To The Secretary to Govt
D. O. W.

Dated 8th } February
Received 11 } 1875
Enclaves 9.

Submits for sanction
estimates for repairs to
Narayanaamungalum
+ 3 other tanks in the
Polur taluq, North
Arcot Dist.

Op 380A

6.12.2.75

G.O. 584-2-3-75

P. H. Dept
Proceedings of the Madras Government
Read the following
From the Chief Engineer
for Irrigation (H.L. No 165 of 8 Feb 1875)

584

The following estimates
are sanctioned.

Revenue charges.

57: Narayanaamungalum Tank Repairs 460
15: Vadagaraanummianthal " " 1365
Eachampoundy " " 360
Vannianoor " " 1120

Capital charges.

Minor new works.

Narayanaamungalum Tank Rs 150
Vadagaraanummianthal do " 175
Eachampoundy do " 210
Vannianoor do " 530.

15/2/75
The Chief Engineer for Irrigation to the Secy
N. E. off for Dept
Controlled by P. H. Dept
Ames
J. H. 8-7-75

612-2-75

938 ✓ 3

Govt. of Madras.
PUBLIC WORKS.

To

The Chief Engr. for
Irrigation

Dated

Recd

Encl /

of 0.2 Mar. 1875, No. 584

No. 38-99

Tanks — both Area & D.

Estimates for the
repairs of certain Tanks
sanctioned -