

(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.	3326	Press
B.P. No.		Mis.
Dated	7-12	C876 —195—

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
9th December 1876 No 3,326.*

Read the following —

No 282 W.

No 182 *Note by the Chief Engineer for Irrigator,*
The District Engineer, Kurnool, forwards, with his letter marginally noted, an
No 42, dated 28th September 1876 estimate in connection with the Machina-
 nipalli tank situated in the Sirwel taluq,
 Nundial range —

2 THE nature of the work proposed for execution and the heads of account to
which it is chargeable are as follow —

ORDINARY AGRICULTURAL.

Repairs

Repairing bund, Irrigation sluice, and supply channel, also closing a	RS.
breach in the latter 	1,300
Total ..	1,300

3 The following particulars of this tank are recorded —

Ayacut area 	Acres 72
Assessment 	Rupees 383
Average revenue	" 316
Highest do 	" 410
Expenditure during the previous four years ..	Nil

The area of the catchment basin is 16 square miles, the maximum flood supply is calculated at 4,286 25 cubic feet per second, for discharging which as surplus there are three outlets, one a masonry weir 43 feet in length, which is in good order, and two natural escapes, that on the north side is 100 feet in length, and that at the east is 300 feet in length, the former is 1 5 feet and the latter 1 0 foot above the crest of the masonry weir. The total length available for the surplus discharge is 443 feet.

The bund of this tank is low and the inner slope is eroded in many places. The bund requires raising throughout, varying from 2 feet to 3 5 feet, so that the top may be 3 feet above M W L. There is but one sluice for this tank, the head and rear cistern of which are out of order, and require repair.

The tank is channel-fed. The surplus waters of the Kondamayapally, Chinnarajoo, and Valgalapully Gungammah tanks are conveyed to it by means of the Somavaga supply channel which, during the heavy rains of 1874, was breached, and its course turned. The channel has a masonry surplus weir 98 feet in length constructed in its north bank, and this is in good order.

The estimate provides for raising and repairing the bund, repairing the Irrigation sluice, closing the breach in the supply channel, and widening the channel itself, and it is recommended for sanction, but the District Engineer should give attention to the following matters —

1st — The bund is shown as ending with vertical faces at the natural escapes, and the ends will require some protection.

2nd — The natural escapes are far from level, and there is no item for levelling.

3rd. — The calculation of discharging capacity of the escapes has been made as if they were all at one level—*Vide* end of specification. The calculated flood discharge

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Proceedings of the Madras Government, Public Works Department,
9th December 1876 No 3,326

is probably excessive Were it right the comparison between its quantity 4,286 cubic feet a second and the discharge from the weirs would show the latter to be inadequate instead of more than sufficient, viz, masonry weir

$$\begin{aligned} 43 \times 95 &= 4085 \\ 300 \times 277 &= 8310 \\ 100 \times 093 &= 980 \end{aligned}$$

1,3275

or less than a third of the supposed requirement The tank has not been breached, and therefore it seems likely that it does not receive anything approaching to the quantity of water calculated, while the area of the irrigation is very small compared with the drainage basin The ground at the natural escapes can be lowered so as to afford the waterway which may be found necessary

4th —The section of the ground should be continued to above maximum water.

FORT ST GEORGE,
5th December 1876

(Signed)

JOHN MULLINS, Lt-Col, R E,
Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department

No 183

ORDER THEREON, 9th December 1876, No 3,326.

IRRIGATION, No 19-B.

Account.

THE following estimate from the Nundial range, forwarded by the District Engineer, Kurnool, is sanctioned —

MACHINANIPALLI TANK.

IRRIGATION

Group or Project — Nil Fund — Ordinary Agricultural Class — Repairs Name of Tank, Canal, or Channel — Machinanipalli Tank Particulars of Work — Repairing bund, Irrigation sluice and supply channel, also closing a breach in the latter Amount — Rupees 1,300 To be carried out by the Public Works Department Officer in charge Nundial Range Total Rs 1,300

2 This sanction has been registered as No 205 I. of 1876-77.

(True Extract.)

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

To the District Engineer, Kurnool.

- " Collector of do
- " Chief Engineer for Irrigation
- " Examiner of Public Works Accounts.
- " Revenue Department. ✓

Exd E. C. Shunker.

Spare Copies

E I Form No 9

OFFICE OF THE CHIEF ENGINEER

FOR IRRIGATION

Fortheng. 5th December 1876

No 282-W.

Note by Chief Engineer for Irrigation

Inc 6

THE

District

Engineer,

Kurnool

No 42

Dated 28th

Sept 1876

forwards, with his letter marginally noted, an Estimate in connection with the *Machinanipalli* Tank situated in the *Sirval* Taluq, *Handial* Range.

2 The nature of the work proposed for execution and the heads of account to which it is chargeable are as follow —

Ordinary Agricultural Repairs.

Repairing bund, Irrigation sluice & supply channel also closing a breach in the latter — Rs. 1300

Total Rupees. 1300

3 The following particulars of this Tank are recorded —

Ayacut area. *7.2 Acres*
Assessment. *383 Rupees.*
Average revenue. *316 Rupees*
Highest do. *410 Rupees*
Expenditure during the previous four years. *nil*

The area of the catchment basin is 16 square miles, the maximum flood supply is calculated at 4286.25 cubic feet per second for discharging which, as surplus there are three outlets, one a masonry weir 43 feet in length, which is in good order, and two natural escapes, that on the north side is 100 feet in length and that at the east is 300 feet in length; the former is 1.5 feet and the latter 1.0 feet above the crest of the masonry weir. The total length available for the surplus discharge is 443 feet.

The bund of this tank is low and the inner slope is eroded in many places. The bund requires raising throughout, varying from 2' to 3.5' so that the top may be 3 feet above M.W.L.

There is but one sluice for this tank, the head and rear cistern of which are out of order and requires repair.

The tank is channel fed. The surplus waters of the Kondamayapully Chinnarajo

and Palagalapully Gungammah tanks are conveyed to it by means of the Somavaga supply channel which, during the heavy rains of 1874, was breached and its course turned. The channel has a masonry surplus weir 98 feet in length constructed in its north bank, and this is in good order.

The estimate provides for raising and repairing the bund, repairing the irrigation sluice, closing the breach in the supply channel and widening the channel itself, and it is recommended for sanction, but the District Engineer should give attention to the following matters

1st The bund is shown as ending with vertical faces at the natural escapes, and the ends will require some protection

2nd The natural escapes are far from level and there is no item for leveling.

3rd The calculation of discharging capacity of the escapes has been made as if they

were all at one level - vide end of specification. The calculated flood discharge is probably excessive - Were it right the comparison between its quantity 4886 cubic feet a second and the discharge from the weirs would show the latter to be inadequate instead of more than sufficient
viz masonry weir

$$\begin{aligned} 43 \times 9.5 &= 408.5 \\ 300 \times 2.77 &= 831.0 \\ 100 \times 0.98 &= 98.0 \\ \hline &1327.5 \end{aligned}$$

is less than a third of the surface required. The tank has not been breached and therefore it seems likely that it does not receive anything approaching to the quantity of water calculated, while the area of irrigation is very small compared with the drainage basin. The ground at the natural escapes can be lowered so as to afford the waterway which may be found necessary.

4th The section of the ground should be continued to above maximum water -

Voluntarily at Colonel's request to be from Chief Engineer - for 2nd

No 3326 M D 75
B 1 form No 4-A
Proceedings of the Madras Govt
Under date of Dec 9
Read the following
From the Chief Eng for 2nd E No 282 of 95 Dec 9
Irrigation

The following Estimate from the
Standial Range forwarded by the
District Engineer, Kurnool
is sanctioned —
Machinapalli Tank

Irrigation.

Group or Project	Fund.	Class	Name of Tank, Canal, or Channel	Particulars of Work	Amount Rs
—	Ordinary Agricultural	Repairs	Machinapalli Tank	Repairing bund irrigation since had supply of water also closing a breach in the latter	1300
To be carried out by the P. W. Department Officer in charge of the Range					1300

Total Rupees 1300 —

2 This sanction has been registered

Col. Kurnool.
Ch. Eng. for Irrig. with 6 Enclosures as No. 205. I. of 1876/77
Recd. H. A. 23-12-76
Revenue (Dep't) DWP-23-12-76
by 6/12

C. J. R.

P.W.D.
E.F.E.D. 7/8
No. 8861

from

The Chief Engineer for Bridge

To The Secy to Govt
P.W.D.

Dated 5 } Decr 1896
Despatch 6 }

Encls 6 No. 282-W.

Machumafalle Tank - Kurnool
District - Re forwarding for sanction
Estimate for Rs. 1300 for repairing tank,
irrigation sluice & supply channel
of the —

1896/7

Cin. 7-12-96

Cin 7-12-96

Ch. 8261

The R. B. Thomas

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G O, 9th No 1-1876, No 332.6

Nos. 1 2

Mackmanpalle Tank,
Kannur Dist - Estimate
for repairing the bund,
irrigation sluice & supply
channel of the — — — — — same
- times -

Wm. H. P.

Jan 7-12-76