M.R.O. 1—10,006—28-2-50.

(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. 1838 Press Original
~~B.P. No.~~ ~~Mis.~~

Dated 20. 7. ~~195~~ 1876

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
20th July 1876. *No.* 1,838.

Read the following :—

No. 92 W.

No. 333. *Note by the Chief Engineer for Irrigation.*

THE Officiating District Engineer, Bellary, forwards, with his letter marginally noted, estimate in connection with the Allur tank situated in the Allur Taluq, Ghooty Range.

No. 3,137, dated 15th March 1876.

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

Ordinary Agricultural.

	Rs.
Constructing body and wing-walls to the existing dry stone escape. Original Works	345
Repairing the bund and dry stone apron. Repairs	120
Total ...	465

3. The following particulars of this Tank are recorded :—

Ayacut area.	Acres 127	115 Government. 12 Inam.
Assessment	Rupees 731	693 Government. 38 Inam.
Average revenue	344	344 Government. ... Inam.
Highest do.	448	448 Government. ... Inam.
Expenditure during the previous four years ...		Nil.

The area of the catchment basin is 12 square miles ; the maximum flood-supply is calculated at 1,023 cubic feet per second, for discharging which, as surplus there is an escape 106 feet in length. The apron of this escape having given way for want of body and wing-walls to protect it, the estimate provides for these additions, as well as for repairing the apron and the bund.

It is noticed that the flood discharge above estimated is extremely small for the area of the basin, the coefficient with Ryves' formula being only 195. If, with the present means of disposing of surplus by the escape of 106 feet in length, the tank did not breach in 1851, this length may suffice, and as the bund is reported to be 7 feet above F. T. L., a much greater discharge can be disposed of with safety if the wings which are to be added be of sufficient height which may be taken to be 5 feet above F. T. L. The drawing appears to show a height of 3 feet only, which must therefore be increased to 5 feet, and a discharge corresponding to a coefficient of 360 may take place with safety. The left wing must be connected with ground 5 feet above F. T. L.

The capacity of the tank would seem not to have been correctly calculated. The area is 961,046 square yards, and it is not clear how the average depth was obtained. As the average cultivation is only 60 acres and the greatest about 80 acres probably the capacity is not more than 640,000 cubic yards, or $\frac{2}{3}$rds of the capacity stated,

Proceedings of the Madras Government, Public Works Department,
20th July 1876. *No.* 1,838.

The estimate is recommended for sanction.

OOTACAMUND,
13*th July* 1876.

(Signed) A. DEC. SCOTT, Major, R.E.,
Deputy Chief Engineer for Irrigation,
for *Chief Engineer for Irrigation.*

To the Secretary to Government, Public Works Department.

No. 334. ORDER THEREON, 20th July 1876, No. 1,838.

IRRIGATION, No. 34.
Account.

THE following estimate from the Ghooty Range, forwarded by the District Engineer, Bellary, is sanctioned:—

Constructing body and wing-walls to the existing dry stone escape, and repairing the bund and dry stone apron of the Allur Tank—

Irrigation—Ordinary Agricultural.

	RS.
1. Original Works	345
2. Repairs	120
Total ...	465

2. This sanction has been registered as No. 68 I. of 1876-77.

(True Extract.)

Colonel,
Offg. Under Secy. to Govt., P.W.D.

E. I. Form No. 9.

OFFICE OF THE CHIEF ENGINEER
FOR IRRIGATION,

Ootacamund, 13th July 1876.

No. 92-W.

Note by Chief Engineer for Irrigation.

Encls. 5.

THE Offg. District Engineer, Bellary

No. 3137 forwards, with his letter marginally noted, Estimate in connection
Dated 15th March 1876. with the Allur Tank situated in the
Allur Taluk, Ghooty 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

Constructing body and wing walls to the existing dry stone escape } Original Works	Rupees 345
Repairing the bund and dry stone apron Repairs	120
Total Rupees	465

3. The following particulars of this Tank are recorded—

Ayacut area.	127 Acres	£115 Government, £12 Inam
Assessment.	781 Rupees	£69 8 Government, £6 8 Inam
Average revenue.	344 Rupees	£34 4 Government, " Inam
Highest do.	448 Rupees	£44 8 Government, " Inam
Expenditure during the previous four years.	Nil	

The area of the catchment basin is 12 square miles; the maximum flood supply is calculated at 1023 cubic feet per second for discharging which, as surplus there is an escape 106 feet in length. The apron of this escape having given way for want of body and wing walls to protect it, the estimate provides for these additions as well as for repairing the apron and the bund.—

It is noticed that the flood discharge above estimated is extremely small for the area of the basin, the coefficient with Ryves formula being only 195. If, with the present means of disposing of surplus by the escape of 106 feet in length, the tank did not breach in 1867, this length may suffice, and as the bund is reported to be 7 feet above T. T. L. a much greater discharge can be disposed of with safety if the wings which are to be added be of sufficient height which may be taken to be 5 feet above T. T. L. The drawing appears to show a height of 3 feet only, which must therefore be increased to 5 feet, and a discharge corresponding to a coefficient of 360 may take place with safety. The left wing must be connected with ground 5 feet above T. T. L.

The capacity of the tank would seem not to have been correctly calculated. The area is 961.046 square yards, and it is not clear how the average depth was obtained. As the average cultivation is only 60 acres and the greatest about 80 acres probably the capacity is not more than 640000 cubic yards, or 1/3rd of the capacity stated.

The estimate is recommended for sanction.

Encl Sketch

Majr R.E.
Dy. Chief Engr. for Irrign
for Chief Engr for Irrign

To
The Secty. to Govt P.W. Dept

Issue Case.

I. E. Form No. 51.

Former Cases.

R No. 582 of 1876.
I - 248 75
R 1417 —

Issue No.

Dated

Later Cases.

No. of 187 .
" "

Sent to Government with No. W. of
18
Printed with G. O. No. dated

Enclosures. 5

P. W. 1876. Defartment
~~Secy~~ No. 522
The Chief Engineer for Irrigation.

~~Receipt No.~~ 582.
~~Dated 15 March 1876.~~
Dated 13th } July 1876.
Received 22nd }
~~No. 92 W.~~

Subject:—
Allur Tank. Bellary District
Submits for sanction
estimate for repairing—

REMINDERS ISSUED.

No. 1, dated 187 .
" 2, " "
" 3, " "
" 4, " "
" 5, " "

No 333

Keep-withs.

Recd. Sheet 26 July
Cir. 17-7-76. Order 20.7.76

Cir/

No 1838 Pwd.

E. I. Form No. 4. No: Vte Madras Govt
Undertake 20 July/76.
Read the following (7)

From the Chief Engr for Irrgtn (H.E. 9/13th July/76)

The following Estimate from the Ghooty Range forwarded by the District Engineer, Bellary is sanctioned:—

Constructing body and wing walls to the existing dry stone escape, and repairing the bund and dry stone apron of the Allur Tank

Irrigation.

Ordinary Agricultural

1. Original Works Rs. 345
2. Repairs —— " - 120
Total Rupees 465

Total Rupees.

2. This sanction has been registered as No. 68. I. of 1876-77.

S.E. Bellary ✓
Collector Do ✓
C. Engr I with 5 enclos ✓
Ex. P. wd ✓
Rev Acct ✓ Debited 2/8/76

5-226 Ct

Govt. of {1876} Madras.

PUBLIC WORKS.

To

The D.C. Bellary

Dated 25-7-76

Issued

Rcvd Entd.

Rmk'd by Mr Hamilton

G. O., 20th July 1876, No. 1888

Nos. 333 - 334

Allur Tank
Bellary Dt - Estimate
of Rs- 465- for repairs
to the - sanctioned

Rs 465 Rs 465 8-8-76