

- (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.	1420	(9)	Press
~~B.P. No.~~			~~Mis.~~
Dated	7-6-	1876	

Not to be folded or roughly handled

7

*Proceedings of the Madras Government, Public Works Department,
7th June 1876.*

Read the following:—

No. 32 W.

No. 122. *Note by Chief Engineer for Irrigation.*

THE District Engineer, Bellary, forwards with his letter marginally noted an estimate in connection with the Bachapully tank, situated in the Ghooty taluq, Ghooty range.

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

	Rs.
Repairing the bund and closing the breach. Revenue Repairs ...	1,656
Widening the apron of the existing weir. Removing and rebuilding one of the wing walls. Revenue Extensions and Improvements.	724
Constructing a masonry weir. Capital—Ordinary ...	2,170
	4,550

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

Ayacut area ...	Acres	182
Assessment ...	Rupees	867
Average revenue ...	"	756
Highest do. ...	"	880
Expenditure during the previous four years ...	"	123

The area of the catchment basin is $4\frac{1}{2}$ square miles; the maximum flood supply is calculated at 1,836 cubic feet per second, for discharging which as surplus there is one weir 54 feet in length and one natural escape 36 feet in length. It is proposed to construct a masonry weir 140 feet in length to replace the natural escape which is to be extended; this arrangement will give 194 feet as the length of crest available for the discharge of the surplus. The estimate provides for repairing the bund, closing the breach, widening the apron of the existing weir and constructing a masonry weir.

The Bachapully tank breached in October 1873, the tank was temporarily secured by a ring-bund and the breach subsequently repaired as an emergent work nearly a year ago in anticipation of sanction. The estimate for the repair of the breach and for constructing the works necessary to prevent a recurrence of failure was not received in this office till June 1875. The documents submitted were incomplete and the information given insufficient to enable an opinion to be passed on the works provided, and they were returned to the District Engineer in July 1875 for revision. The revised estimates now received reached this office on the 1st March last.

This extraordinary delay in providing for the requirements of the tank which lies above and is a source of danger to the Madras Railway has not been satisfactorily accounted for by the Range Officer, the District Engineer's opinion being that the size of the range which is large is counterbalanced by the fact that the railway traverses it and that there are few works going on.

It appears also that there has been a very extraordinary misconception on the part of the Range Officer with reference to the instructions issued from this office

*Proceedings of the Madras Government, Public Works Department,
7th June 1876.*

for the repair of breaches in general, and that pervious material has been designedly placed to form the portion of the bank next to the water instead of being carefully reserved for use in rear. This must be remedied as soon as practicable, unless the tank has already filled and been found to be entirely free from leakage, by stripping the revetment and laying a puddle wall against the face of the bund at the site of the breach, and the District Engineer should issue the necessary detailed instructions.

The rates for rubble masonry built with new and old stone are Rupees 2-8-6 and 3-12-9 respectively, the rate per stone being 1 Rupee a cubic yard. The cost therefore of chunam, sand, and labor is Rupees 2-8-6 and 2-12-9 a cubic yard, and these rates are about double those usual. The District Engineer has noticed that the rates especially in the Ghooty range are very high, and he should see that no unnecessary expenditure is allowed.

The data in Nellore are as follow :—

4 Cubic yard (solid) of picked rough stone at	Rupee per cubic yard.
3 Cart loads miles at Anna per cart.	
2 Parahs of chunam at Annas per parah.	
4 Do. of sand at Pice per parah.	
1 Bricklayer at Annas.	
1 Man cooly at Annas.	
3 Small coolies at Annas.	
Sundries Pice.	

The District Engineer will make further inquiries into the executive work in the Ghooty range, and should suggest to the Chief Engineer, Public Works Department, such measures as may appear to be necessary in order to ensure the more rapid and efficient management of the work.

The estimates are forwarded for sanction.

7th April 1876.

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

To the Secretary to Government, Public Works Department.

No. 123.

ORDER THEREON, 7th June 1876, No. 1,420.

IRRIGATION, No. 8.
Account.

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

BACHAPULLY TANK.

Irrigation.

No. 46 I. of 1876-77.	46 I. 1	Constructing a masonry weir. Capital—Ordinary—I. Work.	Rs. 2,170
	46 I. 2	Widening the apron of the existing weir. Revenue—I.A.	
		Extensions and Improvements	724
	46 I. 3	Repairing the bund and closing the breach. Revenue—I.B.	
		Maintenance and Repairs	1,656
		Total...	4,550

*Proceedings of the Madras Government, Public Works Department,
7th June 1876.*

2. The remarks of the Chief Engineer for Irrigation on the rates for rubble masonry built with old and new stone respectively should receive the District Engineer's careful consideration.

3. This sanction has been registered as shown above.

(True Extract.)

Colonel,

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

To the District Engineer, Bellary.

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

Exd. S. T. Austin.

Spare Copies

OFFICE OF THE CHIEF ENGINEER
FOR IRRIGATION,7th April 1876.

No. 32-W.

Note by Chief Engineer for Irrigation.

enclos. 9. THE District Engineer, Bellary
forwards, with his letter marginally noted, an Estimate in connection
No. 2960 with the Bachapelly Tank situated in the
Dated 28th July 1876 Kooty Taluq, Kooty Range.

2. The nature of the work proposed for execution and the heads of account

to which it is chargeable are as follow:—

Repairing the bund and closing the breach.	} Rupees 1656
Revenue Repairs	
Widening the apron of the existing weir.	} 724
Removing and rebuilding one of the wing walls.	
Revenue Extensions and Improvements	
Constructing a masonry weir.	} 2170
Capital Ordinary	
	Rupees 4550

3. The following particulars of this Tank are recorded—

Ayacut area.	182 Acres.
Assessment.	267 Rupees
Average revenue.	756 Rupees
Highest do.	880 Rupees
Expenditure during the previous four years.	123 Rupees.

The area of the catchment basin is $4\frac{1}{2}$ square miles; the maximum flood supply is calculated at 1036 cubic feet per second for discharging which, as surplus there is one weir 54 feet in length and one natural escape 36 feet in length. It is proposed to construct a masonry weir 140 feet in length to replace the natural escape which is to be extended; this arrangement will give 194 feet as the length of best available for the discharge of the surplus. The estimate provides for repairing the bund, closing the breach, widening the apron of the existing weir and constructing a masonry weir.

The Bacha-pully tank breached in October 1873, the tank was temporarily secured by a ring bund and the breach subsequently repaired as an emergency work nearly a year ago in anticipation of cauction.

The estimate for the repair of the breach and for constructing the works necessary to prevent a recurrence of failure was not received in this office till June 1875.

The documents submitted were incomplete and the information given insufficient to enable an opinion to be passed on the works provided, and they were returned to the District Engineer in July 1875 for revision. The revised estimates now received reached this office on the 1st March last.

This extraordinary delay in providing for

the requirements of the tank which lies above and is a source of danger to the Madras Railway has not been satisfactorily accounted for by the Range officer, the District Engineer's opinion being that the size of the Range which is large is counter-balanced by the fact that the Railway traverses it and that there are few works going on.

It appears also that there has been a very extraordinary misconception on the part of the Range Officer with reference to the instructions issued from this office for the repair of breaches in general and that previous material has been designedly placed to form the portion of the bank next to the water instead of being carefully reserved for use in repair. This must be remedied as soon as practicable, unless the tank has already filled and been found to be entirely free from leakage, by stripping the revetment and laying a puddle wall against the face of the bund at the site of the breach, and the District Engineer should issue the necessary detailed instructions.

The rates for rubble masonry built with new and old stone are 2-8-6 and 3-12-9 respectively, the rate for stone being 1 Rupee a cubic yard.

The cost therefore of chumam, sand, and labour is Rupees 2-2-6 and 2-12-9 a cubic yard and these rates are about double those usual. The District Engineer has noticed that the rates especially in the Coorly Range are very high and he should see that no unnecessary expenditure is allowed. The data in Vellore are as follow.

3/4 Cubic yard (solid) of picked rough stone at Rupees per cubic yard.
 3 Cart loads miles at Annas per cart
 2 Parahs of chumam at Annas per parah
 4 do of sand at piece do
 1 Bricklayer at Annas
 1 man cooly at Annas
 3 Small coolies at Annas
 Sundries at piece

The District Engineer will make further inquiries into the executive work in the Coorly Range and should suggest to the Chief Engineer, P.W.D. such measures as may appear to be necessary in order to ensure the more rapid and efficient management of the work. The estimates are forwarded for sanction.

Ans. Pette

Major R.E.

Deputy Chief Engineer for Irrigation
 for Chief Eng. for Irrigation

No. 122

P. W. Dept.
 No. 1420

E. I. Form No. 4.

Proceedings of the Madras Govt.

Under date the 7 June 1876

Read the following

Note by the Chief Eng. for Irrigation
 No. 32 W. d. 7th April 1876.

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

Tank.

Bachapully Tank.

Irrigation.

1	Constructing a masonry weir. Capital Ordinary	Rs 2170
2	Widening the apron of the existing weir	
3	Repairs to the weir	
4	Extensions and Improvements	726
5	Repairing the bund and closing the breach	
6	Maintenance and	1656
Total Rupees		4550

2. The remarks of the Chief Engineer for Irrigation on the rates for rubble masonry built with old and new stone respectively should receive the District Engineer's careful consideration. Shown above

2. This sanction has been registered as No. 1 of 1876-77.

J. E. Bellary

Director - do

for P. W. D.

for P. W. D.

for P. W. D.

with 9 Encls.

for P. W. D.

for P. W. D.

27/5

27/5

27/5

6 put up.

FORMER CASES.

No. *121/2* of 1876.

" "

Issue Case.

I. E. Form No. 21.

P. H. 1876. Department
Chief Engineer for Irrigation.

RECEIPT No. *32 W.*

Dated *7 April 1876.*

Received 7th June

Issue No. *32 W.*

Dated *7 April 1876.*

LATER CASES.

No. of 187

" "

Subject:— *Bachapully Tank.*

Submits for sanction
estimates for repair-
ing & improving the

Sent to Government with No.

18

W. of

Printed with G. O. No.

dated

ENCLOSURES.

7

REMINDERS ISSUED.

No. 1, dated

187

" 2, "

" 3, "

" 4, "

" 5, "

KEEP-WITHS.

112 1-3-76
Ci-3-636
7/6/96
P. H. 1876

4139 CA

G.O. of 1876 Madras.

PUBLIC WORKS.

To

The P. & Bellary

Dated

Issued

Recd

Encl.

G. O. of 1876, No. 1420

Nos. 122 - 123

Bachapully Tank

Bellary St. Estimate

for certain repairs &
improvements to the
— ocined with
remarks.

but no Rep.
22-8-76