

(1) Number of pages 16

(2) Date of repair 7

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 740.

Press
Mis.

197-198

Dated 9-3-1870.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
9th March 1870.*

No. 197. Read the following letter from the Superintending Engineer, 3rd Division, to the Chief Engineer for Irrigation, dated Camp at Madakscerah, Bellary, 27th January 1870, No. 3,049 :—

With reference to G. O., No. 3,273, of 11th October 1869, I have the honour to submit, for the sanction of Government, the accompanying estimate, etc., for restoring the Gunganapully Mullapah Tank in the Cuddapah Talook, Cuddapah District.

2. As regards paragraph 3, I have the honour to inform you that the Officer in charge of the Cuddapah Range has made inquiry, and reports as follows: "I have endeavoured to ascertain, as correctly as possible, the character of the water-supply, and found it a most difficult business, owing to the conflicting statements made by the villagers. It appears, however, from the information available, that the stream which supplies this tank comes down in flood from four to six times annually, and that it never continues to flow for more than three days at any one time, and that on the first day only does it carry a large volume of water, the same being reduced very considerably on the second morning, and much more so at 6 P.M. on the same day; at 6 A.M. on the third day the volume of water passing down is but insignificantly small, and by 6 P.M. there is none flowing. I am also informed that the stream continues to flow for three days at a time on rare occasions, say twice a year; on other occasions the duration of the floods varies from twenty-four to six hours. The duration of the flood that damaged the tank was three days, but since then the stream has come down twice, *i.e.*, in September (date not known) and on 28th November. On the first occasion the duration of the flood was six hours, and on the second about twenty-four hours.

"I have gone over a good portion of the catchment basin and can readily believe, from what I have seen, that the water is rapidly discharged from it, as with a steep slope (the greater portion of it being hills) but little vegetation to retard its flow, and besides having a retentive subsoil, for the most part composed of rock or hard gravel which cannot possibly absorb much of the rainfall, especially if the heavy rain, as is the case in this locality, is preceded by a drizzle of a few hours' duration, there can be no doubt but that the drainage is carried off rapidly."

3. The area of the tank, as already reported, is 4,427,950 superficial feet, and it is capable of holding about one million cubic yards of water.

No. 198.

ORDER THEREON, 9th March 1870, No. 740.

IRRIGATION, No. 14.

With the above letter the Superintending Engineer, 3rd Division, forwards the estimate, for the repair of the Gunganapully Tank near Cuddapah, which was called for in G. O. of the 11th October last, No. 3,273. The estimate amounts to Rupees 3,690, and provides for closing the breach in the tank bund, for lengthening the waste weir from 120 to 200 feet, and for providing an additional escape, 300 feet in length.

2. The estimate is sanctioned.

*Proceedings of the Madras Government, Public Works Department,
9th March 1870.*

3. It is observed that the top of the wing of the additional escape is but two feet above the crest of the weir, this is too small a margin, and the height should be increased to three-and-a-half feet above the crest, or four-and-a-half feet above full tank level. On the other hand the wing of the present escape, at the tail of the apron, need not be five feet high.

(True Extract.)

(Signed) J. MULLINS, Major, R.E.,

Acting Joint-Secretary to Government.

To the Superintending Engineer, 3rd Division

Controller of Public Works Accounts.

Chief Engineer for Irrigation.

Exp. E. C. Shunker.

Report

Estimate for repairing the Gungawapully. Mullappah Puzh.

1. Amount of Estimate Paper (2700) Three thousand and Seven hundred, Comprising the following items.

Bank Bank

7590	Cubing yards Earthenware @ 200 P / yds.	168	12	.
	" " Pumping @ 2 1/2 "	154	2	.
872	" " Stone Pickling @ 1 1/2 "	372	.	.
22163	" " Graveling @ 200 "	554	2	8

Laing & Co.

1970	fulvic feed Stone in North p 200	223 12
217 $\frac{1}{2}$	fulvic yard Bay house p 100	317 5 4
237 $\frac{1}{2}$	— " — Earthwork p 200	338 8

Revised

5322	<i>Fulcrifol</i>	<i>Staudia</i>	<i>horta</i>	200	115	4	"
1683	<i>Fulcrifol</i>	<i>Staudia</i>	<i>horta</i>	200	118	15	4
212	"	<i>Staudia</i>	<i>horta</i>	200	21	8	"
3727	"	<i>Staudia</i>	<i>horta</i>	200	129	9	"
	<i>Staudia</i>	<i>horta</i>	<i>horta</i>		354	8	8

Total Estimated Repair _____ \$700.

2. This Estimate provides for Closing the Breach in bank, and pitching the same. Covering over the top & Slopes of Bund with a layer of Gravel, the earth of which the Bund is composed being of a soft description & liable to be dissolved by heavy rain. Lengthening the western Calingulah, which is now 120 feet in length, another 80 feet. Constructing a earth-embankment of 300 feet in length at the eastern end of Bund, and construction of a Body wall & an wing wall of Stones in Churnan and an apron of rough Stone, the crest of the Body wall to be raised 1 foot above the Crest of Calingulah in the western end, and for placing a puddle wall across the breach to prevent percolation. The same to extend $4\frac{1}{2}$ feet into the old bund at either end, & to have a foundation of $1\frac{1}{2}$ feet below the bottom of breach.

The Estimate to be carried out in next official year

St. H. or Judasphah Range, Ohio
9th Decem. 1889

W. J. Metzger C.E.
 City Engineer

9th Dec
Secret Agent
Coll.

A. H. C. S. 2nd Submarine Division
Supply Engineer 3rd Division

ABSTRACT ESTIMATE. *Copy of 1869/70.*

Cuddapah District *Cuddapah Taluk.*

Work Repairing the Gungahpally, Mallipattinam Dist.

Called for me before leaving Engineers Hall at 10¹⁵ A.M. 2nd October 1859.

Quantities.	Description of Work.	Rate.	Amount.	Amount of each part.
	<u>Sauk Brook.</u>			
7590	Cutting & Carthenwork	" 9 "	68310 "	
"	" " Pumping	" " 1 "	1582 "	
292	" " Stone Picking	1 " "	392 "	
22163	" " Graveling	" 4 " "	88628 "	
	<u>Salisbury</u>			
1790	Cut & put Stone in Mortar	" 2 "	22312 "	
2173	Cut & put Rough Stone	1 " "	31754 "	
289 1/2	" " Earthwork	" 2 " "	568 "	
	<u>Nylsworth</u>			
3822	Cut & put Stone in Mortar	" 2 "	4452 "	
1653	Cut & put Rough Stone	1 " "	1652 "	
212	" " Earthwork	" 2 " "	268 "	
392 1/2	" " Raddle wall	" 6 "	1399 "	3360 9 4
	Maintenance & Superintendence			3396 8
	Total Estimated Expenses			3700 " "

to II or Justitia's Place officiating
9th December 1869

W. C.
 By Executive Engineer

No. 3049

Superintending Engineer's Office.

3rd Division.

Camp Madakasira, Masahasi Talook

Balkary District.

The 27th January 1870.

From,

The Superintending Engineer

3rd Division.

To,

The Chief Engineer

for Irrigation

Madakasira

Enclosures. 1

Sir,

With reference to G. O. No. 3273 of 11th October 1869, I have the honor to submit for the sanction of Government the accompanying estimate for restoring the Gungana fully a Madakasira Tank in the Madakasira Talook, Madakasira District.

As regards para 2 I have the honor to inform you that the Officer in charge of the Madakasira Range has made enquiry and reports as follows: "I have endeavored to ascertain as correctly as possible the character of the water supply and found it a most difficult business, owing to the conflicting statements made by the Villagers. It appears however, from the information available, that the stream, which supplies this Tank, comes down unplied from 4 to 6 hours annually and that it never ceases to flow for more than three days at any one time; and that on the first days it carries a large volume

1869-70

Madakasira Range

Abstract of Estimate Amounting

to Rs.

for restoring the Gungana

Madakasira Tank.

Dated

27th January

1869.

Received

1869.

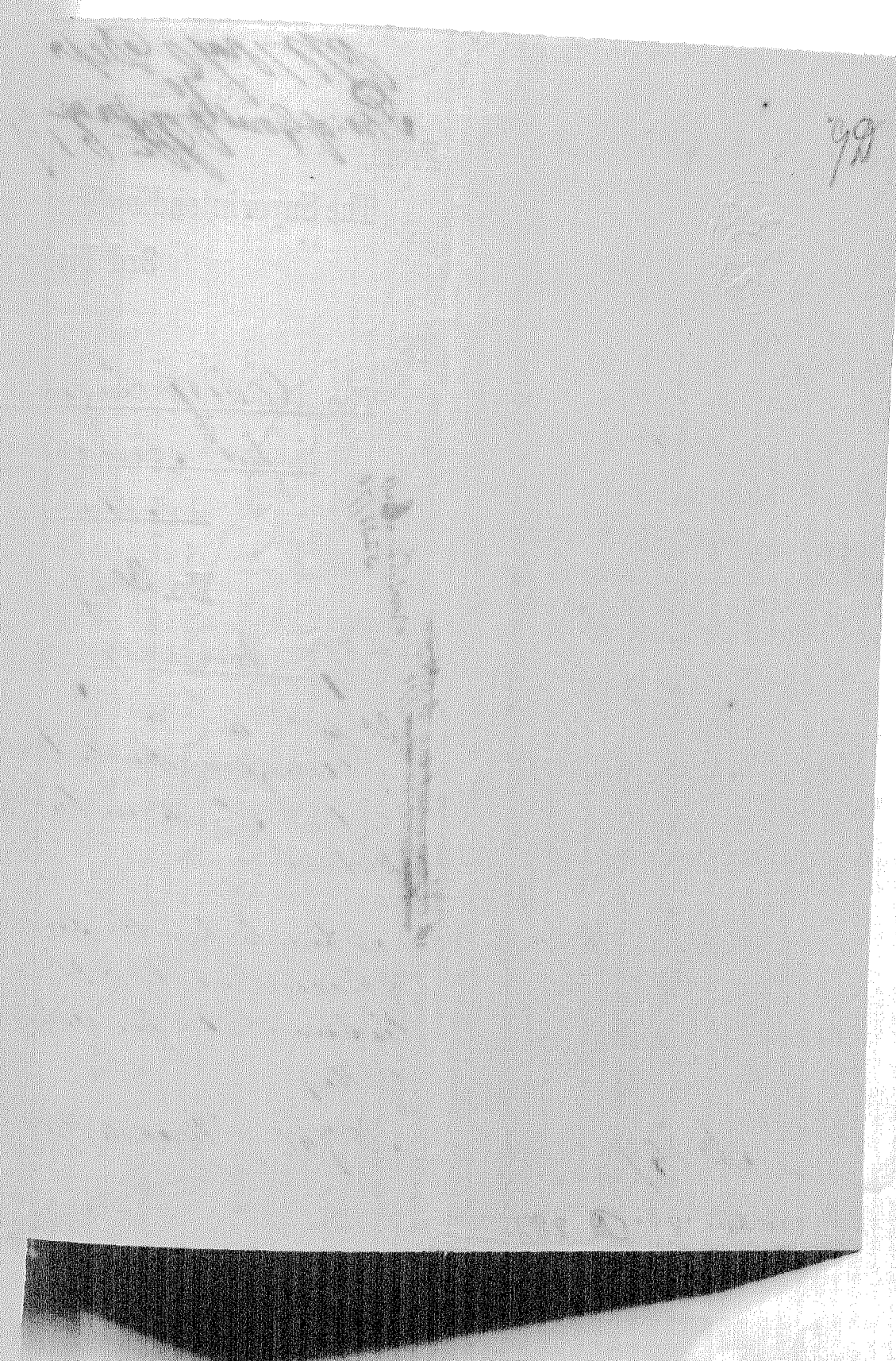
P.H.D.

of water, the same being reduced very considerably in the second morning and much more so at 6 P.M. on the same day: at 6 A.M. on the 3rd day the volume of water passing down is but insignificantly small, and by 6 P.M. there is none flowing. I am also informed that the stream continues to flow for three days at a time on rare occasions - say twice a year - on other occasions the duration of the flood varies from 24 to 6 hours. The duration of the flood that damaged the tank was 3 days, but since then the stream has come down twice - i.e. in September (date not known) and on 28th November. On the first occasion the duration of the flood was 6 hours and on the 2nd about 24 hours.

I have gone over a good portion of the Catehment basin and am readily believing, from what I have seen, that the water is rapidly discharged from it, as with a steep slope, the greater portion of it being hit by but little agitation is retard its flow and besides having a subsoil of soil, for the most part composed of rocks or hard gravel which cannot possibly absorb much of the rain fall, especially if the heavy rain, as is the case in this locality, is preceded by a drizzle of a few hours duration there can be no doubt but that the drainage is carried off rapidly."

2. The area of the tank as already reported is 4,527,950 square feet and it is capable of holding about one million cubic yards of water.

I have seen
D. M. King
Superintendent Engineer &c.



1870
From,
The Superintending Engineer
3rd Division.

To,
The Chief Engineer
for Irrigation
Madras

No. 3049

Dated 27 January 1870.
Received

For the repair of the
Gangamahal Tank, in Cuddalore
District.

Submits for the sanction
of Government, a plan &
estimate for restoration
of the

No 740 of March 1870

No 197
C. 21st Feb 1870 A-28:

P.H.D.

No 740

Proceedings of the Madras Govt. March 1870
Under date the 9th March 1870
Read the following:-

from the Supergr. 3rd Div. (N.E. No 3049 of 27 Jan/70)

With the above letter
the Supergr. 3rd Division
forwards the estimate, for
the repair of the Gangama-
hal Tank near Cuddalore,
which was called for in L.O.
of the 11th October last, No 3273.
The estimate amounts to Rs.
3,690, and provides for closing
the breach in the bank
head, for lengthening the
waste weir from 120 to 200
feet, and for providing an ad-
ditional escape, 300 feet in
length.

R.

A.A.

2 The

2. The estimate is sanctioned.

3. It is observed that the top of the wing of the additional escape is but 2 feet above the crest of the weir, this is too small a margin, and the height should be increased to $3\frac{1}{2}$ feet above the crest, or $4\frac{1}{2}$ feet above full tank level. On the other hand the wing of the present escape, at the tail of the apron, need not be 5 feet high.

Wm. 1870

To Supy. Eng., 32 Du.

Controller, P. H. Accts.

~~Wm. 1870~~
Chief Eng. for Irrig.

Cue 61,
Govt of 1870 Madras
Public Works

To The Superintending Engr
3rd Division

Dated

Received

Enclosure
4

40.9th March 1871 No. 740

Nos 147-148

Gungana pullu Tank Estimate
of Rs 3690 for the repair of the
Gungana pullu Tank near Cudda-
palle, Sanctioned with remarks.