

(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.	520 (2)	Press
B.P. No.		Mis.
Dated	25-2	18 76.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
25th February 1876.

Read the following:—

No. 198.

No. 475. *Note by the Chief Engineer for Irrigation.*

The following estimate from the Sidhout range is forwarded by the District Engineer, Cuddapah, with his letter No. 2,161, dated 22nd January 1876. marginally noted:—

Taluq.	Estimate No.	Work.	Amount. Rs.
Pullampett.	187	Raragoonta Tank.	1,730

2. The financial and hydraulic details of the Irrigation Work concerned is exhibited in the following statement:—

I.—Financial Details.

Name of Work.	Aynut Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Raragoonta Tank	144	562	562	589	...	1,157	673	1,730

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF PASSAGE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.T.L. per Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above P.T.L.	Above M.T.L.		
	SQ. M.	C. FT.		FT.	FT.	FT.	FT.	C. FT.	No.
Raragoonta Tank	5	1,670	Not stated	W. 150	54 150	45	225	612	Not stated.

Note.—The proposed dimensions of weirs and heights of bund are printed in large type. The existing dimensions in small type. The following abbreviations are used:—G. Galingulab with dam stones. W. Weir with flush crest. E. Escape at ground level. B. Bund of tank.

3. The following is a summary of the work proposed to be carried out.

Raragoonta Tank.—This tank was breached by heavy rains, and the east weir completely destroyed. The estimate submitted provides for the construction of a masonry weir 96 feet in length to replace the one destroyed and for relaying a small portion of the revetment which was displaced.

4. It is stated by the Range Officer that the rebuilding of the weir on higher ground cannot be economically carried out, because it would involve the filling up with earth of the site of the present weir, the revetting of the rear as well as the front of the bund (in consequence of the fall of the ground tending to carry the surplus along the toe) the cutting away of the high ground to establish the new weir, and ultimately the renewal of protective work to the new weir, as the surplus would rapidly cut back the ground towards it. Under these circumstances there is no alternative but to carry

*Proceedings of the Madras Government, Public Works Department,
25th February 1876.*

out the renewal in the manner now proposed. The ends of the lower apron should be protected by carrying up the stone work to the level of the ground on the edge of the nullah across which it is laid. The body wall and retaining wall at the eastern end should be connected by a wing of masonry in lime mortar, in lieu of rough stone revetment, and the bund carried up to it. Coping stones 3 inches thick are not well adapted for the lip of the weir or the top of the retaining wall since weight is required. A course of masonry constructed of stones of more than average size, say not less than 10 inches thick and, if possible, more, with closely fitting joints, would be preferable.

5. The scale on which the plan and sections have been drawn has apparently not been stated, nor has the datum for the levels been referred to a bench mark. The details of the weir have been carefully worked out.

6. As this work replaces but in a very improved form a weir which existed on the same spot, a proportion of the cost is debitable to Revenue, and it may be assumed at one-third. The remainder should be a Capital charge.

Fort St. George, (Signed) A. DE C. SCOTT, Major, R.E.,
14th February 1876. for *Chief Engineer for Irrigation.*

No. 476. ORDER THEREON, 25th February 1876, No. 520.

IRRIGATION, No. 50.

Account.

The following estimate, forwarded by the District Engineer, Cuddapah, is sanctioned :—

Reconstructing the East Weir of the Raragoonta Tank.

Capital, Ordinary	Rs.	1,157
Revenue (Repairs)	"	573
Total	"	1,730

2. This estimate has been registered as No. 12 I. of 1875-76.

(True Extract.)

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

To the District Engineer, Cuddapah.
 „ Collector of do.
 „ Chief Engineer for Irrigation.
 „ Examiner of Public Works Accounts.
 „ Revenue Department.

Exd. E. C. Shunker.

Spare Copies

OFFICE OF CHIEF ENGINEER FOR IRRIGATION,

OFFICE OF CHIEF ENGINEER FOR IRRIGATION
Lahrin George, Las Vegas, N. M. January 1876.

108

Note by the Chief Engineer for Irrigation.

No. 1244

Dated 22nd May 1874

Lucas. C.

The following Estimates from the *Sidhant* Range ~~are~~ forwarded by the *District Engineer* Engineer *Buddapah* with his letter marginally noted :—

Taluq.	Estimate No.	Work.	Amount. Rs.
Pullampett	187	Raygoontalank	1730

2. The Financial and Hydraulic details of the Irrigation works concerned
are exhibited in the following statement :—

I.—Financial Details.

Name of Work.	Ayacut Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure dur- ing previous 4 years.	Amount of Estimate.		
	Acres.	Rs.	Rs.	Rs.	Rs.	Capital. Rs.	Revenue. Rs.	Total. Rs.
Raygonta tank	1664	532	582	589	-	1730	-	1730

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.		Maximum Supply.		Length of Escape.		Average Height of Band.		Surplus discharged at M. T. L. per Sec.	Tanks above.
	Sq. M.	C. ft.	C. ft.	Total.	Effective.	Above F. T. L.	Above M. T. L.			
						Ft.	Ft.	Ft.		
Raygoonta tank	5	1670	not stated	W 84	54	4.5	2.25	612	not stated	

Note.—The proposed dimensions of escapes and heights of band are entered in red. The existing dimensions in black. In the MS. the entries in red denote proposed dimensions. The following abbreviations are used:—C.—Casing with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Band of tank.

3. The following is a summary of the work proposed to be carried out

Raygoonta tank. This tank was breached by heavy rains and the back Mir completely destroyed. The estimate submitted provides for the construction of a masonry weir 96 feet in length to replace the one destroyed and for relaying a small portion of the revetment which was displaced.

4. It is stated by the Range Officer that the rebuilding of the weir on higher ground cannot be economically carried out because it would involve the filling up with earth of the site of the present weir, the revetting of the rear as well as the front of the bund in consequence of the fall of the ground leading to carry the surplus along the toe, the cutting away of the high ground to establish the new weir and ultimately the removal of protective work to the new weir as the surplus would rapidly cut back the ground towards it. Under those circumstances there is no alternative but to carry out the removal in the manner now proposed. The subs of the lower upon should be protected by carrying up the stone work to the back of the ground on the edge of the muck across which it is laid. The body wall and retaining wall at the eastern end should be connected by a wing of masonry in lime mortar, in line of rough stone revetment, and the bund carried up to it. Coping stones, 8 inches thick are not well adapted

adapted for the lip of the weir or the
top of the retaining wall since weight
is required. A course of masonry con-
-structed of stones of more than average
size, say not less than 10 inches thick
and if possible more, with closely fitting
joints would be preferable.

5. The scale on which the plan
and sections have been drawn has
apparently not been stated nor has the
datum for the levels been referred to a
bench mark. The details of the weir
have been carefully worked out.

6. As this work replaces but in
a very improved form a weir which
existed on ^{the} same spot a proportion of
the cost is debitable to Revenue and it
may be assumed at one third. The
remainder should be a capital charge.

Asst Secy.

Major R. E.

For Chief Engineer for Irrigation

map made
for
Red in this volume to be printed
in Clarendon type and not in para 2
to suit
2000-1900 R. E. 475

CMS

FORMER CASES.

Current No. of 187
 " " "
 " " "
 " " "

M. WORKS FORM No. 3.

Current No. 1360
 From The Chief Engr. for
 Irrigation

No. 198
 Dated 14th Feb. 1876
 Recd. 22nd

Subject:— Note on letter from
 the Dist. Engr. Buddapah
 submitting plan & Est. of
 Rs 1730 for constructing a weir
 at the end of Rajaramnata
 tank

ENCLOSURES. 6

From to
 " "
 " "
 " "

Orders and Proceedings in file.

Depart- ment.	No.	Date.	ENDORSEMENTS.		
			Depart- ment.	No.	Dated.

GO No 520 25-2-76

No 520 RAB

Proceedings of the Bundoo Board
 Under date the 20th Feb 1876
 Read the following:—

From The Chief Engineer } (A.E. No. 198 of 14 Feb 1876)
 for Irrigation

The following estimate
 forwarded by the District
 Engineer, Buddapah, is
 sanctioned

Reconstructing the east
 end of the Rajaramnata
 tank

Capital Repairs Rs 57
 Revenue Repairs Rs 573

Total Repairs 1730

D. E. Buddapah
 Collector do with six 2 This estimate has been registered
 C.E. for do with six 2 as No. 12 I of 1875-76.
 Comd. Enclos. 15
 Rev. Dept. 17 dated 10.3.76

Comp. 884

Comp. 884

1075

22-2-76

12

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1. *Phragmites australis*
 2. *Scirpus americanus*
 3. *Spartina patens*
 4. *Distichlis spicata*
 5. *Eleocharis acicularis*
 6. *Eleocharis obtusa*
 7. *Eleocharis tenuis*
 8. *Eleocharis palustris*
 9. *Eleocharis acicularis*
 10. *Eleocharis obtusa*
 11. *Eleocharis tenuis*
 12. *Eleocharis palustris*

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1894-1895

Box 475-470

The original of the
 in recording the
 Court of the
 Commission.