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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	1315	(2)	Press
B.P. No.			Mis.
Dated	26.5.		1876.

Not to be folded or roughly handled

1

*Proceedings of the Madras Government, Public Works Department,
26th May 1876.*

Read the following :—

No. 56 W.

No. 452. *Note by the Chief Engineer for Irrigation.*

The following estimates from the Kurnool Range are forwarded by the District Engineer, Kurnool, with his letter marginally noted :—

Dated 14th March 1876.

Taluq.	Village.	Work.	Amount.
			Rs.
Nundicotkoor	Yelgode	Ramasamoodrum Tank ...	6,370
Do.	Do.	Edula Tank	1,275

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.	OUTLAY.			
					During the previous 4 years.	Proposed.		
						Capital.	Revenue.	Average annual portion of Charges to Revenue.
Ramasamoodrum Tank	ACRES. 505	RS. 2,398	RS. 3,606	RS. 4,692	RS. 272	RS. 8,316	RS. 3,055	RS. 368
Edula Tank	95	385	412	516	85	930	345	660

II.—Hydraulic Details.

Name of Work.	Catchment Basin, Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE.		AVERAGE HEIGHT OF BUND.		Surplus discharged at M.T.L. per Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	No.
Masamoodrum Tank ...	42	6,040	...	E 75 W 600	75 600	1.5 5.0	0.0 3.0	475.2 5,701.8	2
Jula Tank ...	4	1,260	...	E 70 W 150	70 150	3.5 4.0	1.5 2.0	413.4 1,425.4	1

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

*Proceedings of the Madras Government, Public Works Department,
26th May 1876.*

3. The following is a summary of the work proposed to be carried out in each case :—

Ramasamoodrum Tank.—Constructing a masonry weir, dismantling the existing stone in clay escape, and raising and repairing the bund.

Edula Tank.—Constructing a masonry weir, raising the bund, and clearing the bushes.

4. It is proposed to expend Rupees 6,370 on the Ramasamoodrum tank, viz., Rupees 3,055 on repairs, and Rupees 3,315 in providing a new and sufficient surplus weir. The catchment basin has an area of about 42 square miles, and the bund being about 2 miles in length the proposed arrangements, which provide for M.W.L. being 2 feet above F.T.L., for the bund being brought up to 3 feet above M.W.L., parts of it at present being below F.T.L. and the present escape being only 75 feet long, or adequate to the discharge of surplus from less than 2 square miles are considered suitable. The District Engineer shows that Rupees 272 only have been spent during the last four years, and in a case like this in which the outlay shown to be required is large, it would have been well had he stated when the last thorough repair was carried out. During the past five years considerably more than the ayacut assessment has been annually realized, and it should be clearly explained in such and indeed in all cases what return direct or indirect is looked for from the proposed outlay, or what loss is likely to be sustained if the improvements are not carried out.

Similar observations apply to the estimates for the Edula tank.

5. The lower retaining wall to the weirs proposed for these tanks should be protected by a loose stone apron not less than a yard in width. This will cost Rs. 200, and the necessary addition will have to be made to the estimate. On the other hand, the length of weir of the Edula may be reduced from 150 to 120 feet, and the saving will compensate for the increase referred to.

6. There appears to be no doubt that the outlay on these two tanks is necessary to render them secure, and the estimates are accordingly recommended for sanction.

7. The following statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several heads of account involved :—

Name of Tanks.	Name of Work.	FUND.			Total for each Tank, &c.
		Capital, Ordinary.	REVENUE. Extensions and Improve- ments	Repairs.	
Ramasamoodrum Tank ...	Constructing a masonry weir ...	Rs. 3,475	Rs. ...	Rs. ...	Rs. 3,510
	Dismantling the existing stone in clay escape ...	...	35	...	
	Raising and repairing the bund ...	...	...	3,020	
Edula Tank ...	Constructing a masonry weir ...	970	...	...	1,315
	Raising the bund and clearing the bushes ...	...	...	345	

(Signed) A. D. C. SCOTT, Major, R.E.,
Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

*Proceedings of the Madras Government, Public Works Department,
26th May 1876.*

No. 453.

ORDER THEREON, 26th May 1876, No. 1,315.

IRRIGATION, No. 46.

Account.

No. 56 W, dated 20th May 1876.

THE following estimates for Irrigation Works in the Kurnool Range, Kurnool District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned :—

Irrigation.

Name of Work.	Item of Estimate.	Fund.	Amount.	Irrigation Registry No.
Ramasamoodrum Tank.	Constructing a masonry weir ...	Capital, Ordinary ...	Rs. 3,475	36 I. 1
	Dismantling the existing stone in clay escape.	Revenue I. A. Extensions and Improvements ...	35	36 I. 2
	Raising and repairing the bund ...	Revenue I. B. Maintenance and Repairs...	3,020	36 I. 3
Edula Tank ...	Constructing a masonry weir ...	Capital, Ordinary ...	970	37 I. 1
	Raising the bund and clearing the bushes.	Revenue I. B. Maintenance and Repairs.	345	37 I. 2

2. These sanctions are registered as shown above.

(True Extract.)

Colonel

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

To the District Engineer, Kurnool.

„ Collector of Kurnool.

„ Chief Engineer for Irrigation.

„ Examiner of Public Works Accounts.

„ Revenue Department.

Exd. E. C. Shunker.

Spare Copies

N 56. W

20th May 1876.

Note by the Chief Engineer for Irrigation.

No. 5

Dated 14th March 1876.

Enclosures 12.

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

Taluk. Village. Work. Rs. Amount.

Nundicothor. Gelgode - Ramasamudram - 6370 - - -
Tank.

Do Do. Edula Tank. - 1275 - - -

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.	OUTLAY.			
					During the previous 4 years.	Proposed.		
						Capital.	Revenue.	Average annual proportion of Charges to Revenue
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Ramasamudram Tank.</i>	505	2898	3606	4692	272	3315	3055	36.8
<i>Edula Tank.</i>	95	385	412	516	85	930	345	66.0

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	Maximum Supply.		Length of Escape.		Average Height of Bund.		Surplus discharged at M. T. L. per Sec.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F. T. L.	Above M. T. L.		
	Sq. M	C. ft.	C. ft.	Ft.	Ft.	Ft.	Ft.	C. ft.	No.
Ramasamoodrum Tank	42	6040	"	E 75 W 600	75 600	1.5 5.0	0.0 3.0	475.2 2701.4	2
Edula Tank	4	1260	"	E 70 W 150	70 150	3.5 4.0	1.5 2.0	443.4 2701.4	1

Note.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. The following abbreviations are used:—K.—Kalingulah 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 in each case—:

Ramasamoodrum Tank. Constructing a masonry weir, dismantling the existing stone in clay escape, and raising and repairing the bund.

Edula Tank. Constructing a masonry weir, raising the bund, and clearing the bushes.

4. It is proposed to expend Rs 6370 on the Ramasamoodrum tank, viz Rs 3055 on repairs and Rs 3315 in providing a new and efficient surplus weir. The catchment basin has an area of about 42 square miles and the bund being about 2 miles in length the proposed

proposed arrangements, which provide for M.W.L. being 2 feet above F.T.L., for the bund being brought up to 3 feet above M.W.L., parts of it at present being below F.T.L. and the present escape being only 75 feet long or adequate to the discharge of surplus from less than 2 square miles are considered suitable. The District Engineer shows that Rupees 272 only have been spent during the last 4 years and in a case like this in which the outlay shown to be required is large, it would have been well had he stated when the last thorough repair was carried out. During the past five years considerably more than the agent's assessment has been annually realised and it should be clearly explained in such and indeed in all cases what return direct or indirect is looked for from the proposed outlay or what loss is likely to be sustained if the improvements are not carried out.

Similar observations apply to the estimates for the Edula Tank.

5. The lower retaining wall to the weirs proposed for these tanks should be protected by a loose stone apron not less than a yard in width. This will cost Rs 200 and the necessary addition will have to be made

made to the estimate. On the other hand the length of weir of the Echula may be reduced from 150 to 120 feet and the saving will compensate for the increase referred to.

6. There appears to be no doubt that the outlay on these two tanks is necessary to render them secure and the estimates are accordingly recommended for sanction.

7. The following statement shows the proposed distribution of the outlay recommended for sanction, to the debit of the several heads of account involved.

Name of Tank.	Name of Work.	Fund			Total for each tank.
		Capital Expenditure	Revenue		
			Extension and Improvements	Repairs	
Raniya mudrum Tank.	Constructing a masonry weir	3475	"	"	73510
	Dismantling the existing stone in clay escape	"	35	"	
	Raising and repairing the bund	"	"	3020	
Edula Tank.	Constructing a masonry weir	970	"	"	71315
	Raising the bund and clearing the bushes	"	"	345	

Am Sinto

Major R.E.

Depy. Chief Engineer for Irrig.
for Chief Engr. for Irrigation

[Signature]

L. H. 1876 Department

3836

From

The Chief Engineer for
Irrigation

Date of 20th May
Received 29th May } 1876.

Enclos: 12

3836 H.

Note on letter from
the District Engineer Kurnool,
forwarding plans and estimates
for certain works connected
with Ramasamoodram and
Edula Tanks in the District.

No. 452

Note for Printer. Put in this form in the
printer and in account of the 2 at hand
12/21/76

E. I. Form No. 8.

No. 1315

W. C. E. May 7/76

The following Estimates for Irrigation
works in the Kurnool Range,

Kurnool District, forwarded by the
Chief Engineer for Irrigation with his Memo.

No. 56.W

dated 20th May 1876.

marginally noted are sanctioned:—

Irrigation

Name of Work.	Item of Estimate.	Fund.	Amount	Irrigation Registry No.
Ramasamoodram Tank	Constructing a masonry weir	Capital Expenditure	3475	361
	Repairing the existing stone in clay escape	Revenue Expenditure	35	362
	Raising and re- pairing the bund	Revenue Expenditure	3020	363
	Constructing a masonry weir	Capital Expenditure	970	364
Edula Tank	Raising the bund and clearing the bushes	Revenue Expenditure	315	365
		Revenue Expenditure	315	366

2. These sanctions are registered as shown above

W. C. E.

May 23/76

J. E. Kurnool
Collector do
C. E. for J. with 12 Enclos
Ex. P. W. H.
Rev. 28/7/76

W. C. E.

38365 CA.

Gobt. of 1876 Madras.
PUBLIC WORKS.

To
The N. E. Munnab

Dated

Issued

Recd

Est.

G. O. 25th May 1876 No. 1375

No. 452/3

Ramesamoodram &
Edula Janku
Munnab Disto

Sanctioning Estimates
for certain works
in connection with
the —

Sanctioned
7-6-76