M.R.O. 1—4,002—16 9-48.

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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. 760 (9) Press
B.P. No. —Mis.—

Dated 27 3 1876.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 27th March 1876.

Read the following :—

No. 267.

No. 397. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Serooloor Range are forwarded by the Superintending Engineer, Chingleput, with his No. 4,115, dated 12th January 1876. letter marginally noted :—

Taluq.	Estimate No. 187	Work.	Amount.
			RS.
Trivellore	...	Allicooly Tank	970
Do.	...	Villapakam large Tank	507
Do.	...	Villapakam small „	662
Do.	...	Ramanthundalum „	852

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 during previous 4 years.	Amount of Estimate.		
						Capital.	Revenue.	Total.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Allicooly Tank	296	755	683	756	962	450	520	970
Villapakam large Tank	69	270	233	245	...	127	380	507
Villapakam small „	180	562	431	455	268	127	535	662
Ramanthundalum „	198	638	486	577	...	127	725	852

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.
Allicooly Tank	13	3,732	...	W 81	81	7·125	4·125	1,414	Not stated.
				W 30 / W 183	213	7·5	4·5	3718·5	
Villapakam large Tank ...	5·5	1,752	...	E 150	150	3·5	2	617·2	Do.
				E 285	285	4·5	3·	879·5	
Villapakam small „ ...	7	2,058	...	E 78	78	3·5	2	320 9	Do.
				E 333	333	4·5	3·	1027·7	
Ramanthundalum „ ...	5·	1,644	...	C 31	not given	4·	2 5	0 0	Do.
				W 31 / E 236	267	4·5	3	919·6	

NOTE.—The proposed dimensions of escapes and heights of bund are printed in large type. The existing dimensions in small type. The following abbreviations are used :—C.—Calingulah 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.

Allicooly Tank.—This tank drains 13 square miles of hilly country, and had two weirs, one 30 feet in length, the other 51 feet ; the latter, an old native structure, was

almost destroyed during the last monsoons; both surplus channels also were breached. The estimate provides for closing the breaches, raising, sectioning, and turfing bund and forming an escape.

Villapakam Large Tank.— The escape of this tank is reported to be insufficient, and it is proposed to extend it by removing a portion of the bund to ground level, and, as the tank has no sluice, one is proposed to be constructed. The estimate; provides for the above as well as for closing breaches and raising, sectioning and turfing the bund.

Villapakam Small Tank.—The escape of this tank also is reported to be insufficient, and it is proposed to remove a portion of the bund so as to provide an adequate outlet, and, as the tank has no sluice, one is provided for in the estimate; the estimate also provides for closing breaches and raising, sectioning, and turfing the bund.

Ramanthundalum Tank.—This tank is supplied by local drainage, and was breached by an overflow of the Cortilliar river. The estimate provides for the construction of a second-class sluice, repairing sluice and calingulah, forming an escape, closing breaches, and raising, sectioning, and turfing the bund.

4. Rupees 847 were expended on the Allicooly tank in 1870-71. It should have been noted what repairs were executed, as apparently the bund should not have required re-sectioning within so short a time, if the petty repairs had been properly attended to by the villagers. It is not stated whether the tank is an isolated one or not. If it is, the ayacut is small for the drainage into it, and the circumstance should have been noted and explained.

The sluices for the Villapakam large and small tanks and the Ramanthundalum tank require revision in reference to the remarks in the Note of the Chief Engineer for Irrigation, No. 223, dated 21st February 1876.

As the escape for the last is to be planted with grass and the co-efficient thereby reduced, the length must be greater than that provided for. It should not be less than 300 feet, and an increase of head of 6 inches may also be admitted on emergency.

5. The allocation of the expenditure recommended for sanction to the several heads of account is shown below:—

Name of Tank.	Estimate No. of 187	Nature of Work.	Capital Ordinary.	Revenue. Extensions and Improvements.	Revenue. Repairs.	Total.
						Rs.
Allicooly Tank	...	Repairing the bund and closing breaches.	...	...	520	970
		Masonry weir	450	...	...	
Villapakam large Tank ...	...	Repairing the bund and closing breaches...	...	...	336	507
		Forming an escape planted with grass with rough-stone wing walls	...	44	...	
		Irrigation sluice	127	...	...	
Villapakam small Tank ...	...	Repairing the bund and closing breaches.	...	...	456	663
		Forming an escape planted with grass with rough-stone wing walls.	...	79	...	
		Irrigation sluice	127	...	...	
Ramanthundalum Tank ...	...	Repairing the bund, a sluice, and a calingulah and closing breaches	..	...	667	852
		Forming an escape planted with grass with masonry wing walls	...	58	...	
		Irrigation sluice	127	...	...	

FORT ST. GEORGE,
29th *February* 1876.

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

No. 398. ORDER THEREON, 27th March 1876, No. 760.

IRRIGATION, No. 31.
Account.

No. 267, dated 29th February 1876.

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

Name of Tank.	Provision of Estimate.	Fund.	Amount.	Irrigation Register No.
			Rs.	
Allicooly Tank ...	Repairing the bund and closing breaches.	Revenue Repairs ...	520	56 I of 1875-76.
	Masonry weir	Capital, Ordinary ...	450	
Villapakam large Tank.	Repairing the bund and closing breaches.	Revenue Repairs ...	336	
	Forming an escape planted with grass with rough-stone wing walls.	Revenue Extensions and Improvements.	44	57 I of ,,
	Irrigation sluice	Capital Ordinary ...	127	
Villapakam small Tank.	Repairing the bund and closing breaches...	Revenue Repairs ...	456	
	Forming an escape planted with grass with rough-stone wing walls.	Revenue Extensions and Improvements.	79	58 I of ,,
	Irrigation sluice	Capital, Ordinary ...	127	
Ramanthundalum Tank.	Repairing the bund, a sluice, and calingulah and closing breaches.	Revenue Repairs ...	667	
	Forming an escape planted with grass with masonry wing walls.	Revenue Extensions and Improvements.	58	59 I of ,,
	Irrigation sluice	Capital, Ordinary ...	127	

2. These sanctions are registered as shown above.

(True Extract.)

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

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

Exd. E. C. Shunker.

Spare Copies

I. Form No. 1.

5

OFFICE OF CHIEF ENGINEER FOR IRRIGATION,

No. 267 Fort St George, 29 February 1876.

Note by the Chief Engineer for Irrigation.

No. 4115
Dated 6 Jany 1876.
Encls. 28

THE following Estimates from the Perambore Range are forwarded by the Superintending Engineer Chingleput with his letter marginally noted:—

Taluq.	Estimate No. 187	Work.	Amount. Rs.
Trivellore	"	Allicooly Tank	970 — —
Do	"	Villapakam large Tank	507 — —
Do	"	Villapakam small Tank	662 — —
Do	"	Ramanthunda Inam Tank	852 — —

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 during previous 4 years.	Amount of Estimate. Capital.	Revenue.	Total.
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Allicooly Tank	296	755	685	760	982	450	520	970
Villapakam Large Tank	69	270	223	245	nil	127	380	507
Villapakam small Tank	180	562	431	455	268	127	535	662
Ramanthunda Inam Tank	198	638	486	577	nil	127	725	852

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	Maximum Supply. Catchment per Second.	Maximum Supply. Channels per Second	Length of Escape. Total.	Length of Escape. Effective.	Average Height of Bund. Above F. T. L.	Average Height of Bund. Above M. T. L.	Surplus discharged at M. T. L. per Sec.	Tanks above.
	Sq. M.	C. ft.	C. ft.	Ft.	Ft.	Ft.	Ft.	C. ft.	No.
Allicooly Tank	13	3737	nil	W 81 W	81	7.25	6.25	4446	4 detached.
Vellapakam large Tank	5.5	1752	nil	E 150	150	3.5	2	672	
Vellapakam small Tank	7	2055		E 78	78	3.5	2.	2249	
Ramanthanda-lam Tank	5.	1646		C 31	31	4.	2.5	0.0	

NOTE.—The proposed dimensions of escapes and heights of bund 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.—Calingulah 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.—

Allicooly Tank.. This tank drains 13 square miles of hilly country, and had two weirs, one 30 feet in length the other 51 feet; the latter ~~was a~~ ~~dilapidated~~ structure was almost ~~destroyed~~ during the last monsoon; both surplus channels also were breached. The estimate provides for closing the breaches, raising sectioning

sectioning and turfing bund and forming an escape.—

Vellapakam large Tank. The escape of this tank is reported to be insufficient, and it is proposed to extend it by removing portion of the bund to ground level; and as the tank has no sluice, one is proposed to be constructed. The estimate provides for the above, as well as for closing breaches and raising, sectioning and turfing the bund.—

Vellapakam small Tank. The escape of this tank also is reported to be insufficient, and it is proposed to remove a portion of the bund so as to provide an adequate ~~sluice~~ outlet, and as this tank has no sluice one is provided for in the estimate, the estimate also provides for closing breaches and raising, sectioning and turfing the bund.—

Ramanthandalam Tank.

tank. This tank is supplied by local drainage, and was breached by an tidal flow of the Cauvillirit River. The estimate provides for the construction of a second class sluice, repairing sluice and calingalbahn, fencing and recape, clearing breaches and raising, strengthening and turfing the bunds.

4. Rupees 847/ were expended on the Allicoily tank in 1870-71. It should have been noted what repairs were executed as apparently the bund should not require resectioning within so short a time, if the petty repairs had been properly attended to by the villagers. It is not stated whether the tank is an isolated one or not. If not the agent should call for the drainage, site, etc, and the circumstances should

---

rate for bunds. Red entries in this note to be printed in black

9

should have been noted and explained.-

The sluices for the Vellapakam large and small tanks, and the Kamanthandalam tank require revision in reference to the remarks in the note of the Chief Engineer for Irrigation No. 223, dated 21st February 1876.-

As the recape for the last is to be planted with grass, and the co-efficient thereby reduced, the length must be greater than that provided for. It should not be less than 300 feet and an increase of head of six inches may also be admitted on emergency.-

5. The allocation of the expenditure recommended for sanction to the several heads of account is shown below-

Name

No 760 S.P.C. Irrn Accounts

Pro: of the Madras Government

Under date the 27th March 1876

Read the following:-

From

The Chief Engineer for Irrigation

(H.E. No 267 of 29th Feby 1876.)

The following estimates for Irrigation Works in the Sevaloor Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his Memorandum marginally noted are sanctioned.-

Nano

Names of Tank.	Nature of Work	Estimate Page 167 - Part	Capital Expenditure Estimate	Revenue Expenditure Repairs	Total
Allicooly Tank	Repairing the bund & closing breaches		"	520	970
	Masonry weir		450	"	
Vellapakam Large Tank	Repairing the bund & closing breaches		"	336	587
	Forming an escape planted with grass with rough stone wing walls		44	"	
	Irrigation sluices		127	"	
Vellapakam small Tank	Repairing the bund & closing breaches		"	"	662
	Forming an escape planted with grass with rough stone wing walls		79	"	
	Irrigation sluice		127	"	
Ramanthamdalum Tank	Repairing the bund, a sluice da calingula & closing breaches		"	"	852
	Forming an escape planted with grass with masonry wing walls		"	58	
	Irrigation sluices		127	"	

Ph 27 March 76 BK 397

To
The Secty. to Govt. P.W.D.

Chief Sctr
Majors R.E.
Asst. Chief Engr. for Irrign
for Chief Engr. for Irrigation

CWB

Name of Tank	Provision of estimate	Fund	Amount	Irrigation Register No.
Allicooly Tank	Repairing the bund and closing breaches	Revenue Repairs	520	56
	Masonry weirs	Capital Ordinary	450	
Vellapakam large Tank	Repairing the bund and closing breaches	Revenue Repairs	336	57
	Forming an escape planted with grass with rough stone wing walls	Revenue Extensions & Improvements	414	
	Irrigation sluice	Capital Ordinary	127	
Vellapakam small Tank	Repairing the bund and closing breaches	Revenue Repairs	456	58
	Forming an escape planted with grass with rough stone wing walls	Revenue Extensions & Improvements	79	
	Irrigation sluice	Capital Ordinary	127	
Ramanthandalam Tank	Repairing the bund, a sluice and caliugula & closing breaches	Revenue Repairs	667	59
	Forming an escape planted with grass with masonry wing walls	Revenue Extensions & Improvements	58	
	Irrigation sluice	Capital Ordinary	127	

2 Three sanctions are registered as shown above.—

Chief

Asst.

C.V.R.

Disp 8 April 1876
D. E. Chingleput
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Rec'd 15 Dec 1875

394/8

Cir 21-3-76

FORMER CASES.

Current No. of 187 .

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LATER CASES.

Current No. of 187 .

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M. WORKS FORM No. 3. 13

Current No. 2067

From

The Chief Engineer for Irrigation

No. 267

Dated 29 February

Recd. 20 March

1876.

Subject:—

Note on Estimates for certain Irrigation works in the Scrobbs Range Cheyleputtah &c

ENCLOSURES. 23

From to

" "

" "

" "

Orders and Proceedings in file.

Department.	No.	Date.	ENDORSEMENTS.		
			Department	No.	Dated.

2062

154

Govt. of Madras.

PUBLIC WORKS.

From H. B. Lehenglestuet

Dated 29/3/76

Rec'd

Read

G. O. 2nd March 1876 No 760

Nos. 397-398

Irrigation Works, Chief
Executive — Estimates
for repairing & improving
certain — sanctioned

Cir 21-3-76