

(1) Number of pages _____

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 559 (9) Press
Mis.

Dated 19-2-1877.

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
19th February 1877. No. 559.*

Read the following:—

No. 111—W.

No. 463.

Note by the Chief Engineer for Irrigation.

The following estimates from the Tinnevely, Northern, and Shermadavy Ranges are forwarded by the Officiating District Engineer, Tinnevely, with his letter marginally noted:—

No. 169, dated 25th January 1877.

Talug.	Village.	Work.	Amount.
Ottapidaram ..	Havelangulam ..	Periakulam tank ..	Rs. 700
Sattur ..	Athagundan ..	Sevelkulam tank and channel ..	320
Nangunery ..	Irukundurai ..	Thoombakulam tank ..	1,540
Total ..			2,560

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 ORDINARY AGRICULTURAL IRRIGATION.		Average annual proportion of charges to Revenue.
						Original Works.	Repairs.	
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT. RS.
Periakulam tank ..	86	405	Not stated.	Nil.	450	250		..
Sevelkulam tank and channel ..	10	81	63	77	80	240		101.5
Thoombakulam tank ..	42	492	131	422	350	1,190		170.1
Total..	138	978	..	..	880	1,680		..

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	MAXIMUM SUPPLY.		LENGTH OF ESCAPE OR AREA OF SURPLUS SLUICE VENT.		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.		
Periakulam tank	S. M. 2.5	C. FT. 500	C. FT. .. {	FT. Nil. W. 60	FT. Nil. 60	FT. 3.63 4'25	FT. 1.63 2'25	C. FT. 0.0 570'1	NO. 1 {
Sevelkulam tank and channel ..	1.0	350	.. {	Nil. W. 55	Nil. 55	2.25 3'75	0.75 2'25	0.0 339'4	Nil. {
Thoombakulam tank	1.0	675	.. {	Not stated. W. 60 60 S. 18 18		Not stated. Not stated.		.. 853'6	.. {

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. S.—Surplus sluice vent area.

*Proceedings of the Madras Government, Public Works Department,
19th February 1877. No. 559.*

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

PERIAKULAM TANK.—The surplus of this tank crosses the South Indian Railway line. The bund is low in some places and needs to be raised and repaired. The tank has two Irrigation sluices which are apparently in good order, but it has no surplus work; it is therefore proposed to construct a masonry weir.

The estimate provides for raising and repairing the bund and constructing a masonry weir.

SEVELKULAM TANK AND CHANNEL.—This tank commands the South India Railway and its surplus crosses the line. The bund requires raising and widening in many places. The channel has two small breaches which are to be closed and the banks repaired. The tank is provided with an irrigation sluice, which is in good order, but it has no surplus work.

The estimate provides for raising the tank and channel banks, closing breaches and for constructing a weir.

THOOMBAKULAM TANK.—This is a detached rain-fed tank; it has not been repaired for many years; the bund is consequently much worn and weak. The tank is provided with an irrigation sluice, which is in good order, and it is apparently provided with a surplus work.

The estimate provides for raising and repairing the bund and constructing a masonry weir with two vents. The estimate which is a large one should have been supported by longitudinal and cross sections.

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.	Items of Estimate.	FUND, ORDINARY AGRICULTURAL, IRRIGATION.		Total for each Tank, &c.
		Original Works.	Repairs.	
Periakulam tank	Raising and repairing the bund	Rs. 450	Rs. 250	Rs. 700
Sevelkulam tank and channel	Constructing a masonry weir			
	Raising and repairing the tank and channel banks		240	320
	Constructing a masonry weir	80		
Thoombakulam tank	Raising and repairing the bund		1,190	1,540
	Constructing a masonry weir	350		

FORT ST. GEORGE, 16th February 1877.
To the Secretary to Government, Public Works Department.

(Signed) JOHN MULLINS, Lt. Col., R.E.,
Chief Engineer for Irrigation.

No. 464. ORDER THEREON, 19th February 1877, No. 559.

IRRIGATION, No. 46.
Account.

No. 111—W, dated 16th February 1877.

THE following estimates for Irrigation works in the Tinnevely, Northern, and Shermadavy Ranges, Tinnevely District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned.

*Proceedings of the Madras Government, Public Works Department,
19th February 1877. No. 559.*

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural, Irrigation.	Amount.	Irrigation Register No.
Periakulam tank	Repairing bund	Repairs	Rs. 250	1 } 324—L.
	Weir	Original Works	450	2 }
Sevelkulam tank and channel	Repairing tank and channel banks	Repairs	240	1 } 325—L.
	Weir	Original Works	80	2 }
Thoombakulam tank	Repairing bund	Repairs	1,190	1 } 326—L.
	Weir	Original Works	350	2 }

2. These sanctions are registered as shown above.

(True Extract.)

Lieut.-Colonel, R.E.,
Secretary to Government.

To the District Engineer, Tinnevely.

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

Exd. E. C. Shunker.

Spare Copies

No. 111.W. Fort. St. George 16 Feb 1877.

Note by the Chief Engineer for Irrigation.

No. 169
Dated 25 Jan 1877.
Encl. 7.

The following Estimates from the ^{Tinnevely} Northern and ^{Shornadav} Ranges are forwarded by the offg. District Engineer ^{Tinnevely} with his letter marginally noted:—

Taluq.	Village.	Work.	Rs.	Amount.
	Ottapidaram - Slavangulam - Periakulam Tank		700	
	Sattoor - Athagundari - Sevelkulam Tank & channel		320	
	Nangunery - Irukundurair - Thombakulam Tank		1540	
Total Rupees			2560	

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. Acres	Assessment. Rs.	Average Revenue for 5 years. Rs.	Highest Revenue for 5 years. Rs.	During the previous 4 years. Rs.	OUTLAY.		
						Proposed original works	Proposed repairs	Average annual proportion of Charges to Revenue.
Periakulam Tank	86	405	Not stated	Nil	450	250		
Sevelkulam Tank & channel	10	81	63	77	80	240	101.5	
Thombakulam Tank	42	492	181	422	350	1190	170.1	
Total	138	978	"	"	"	880	1680	"

II.—Hydraulic Details.

Name of Work.	Catchment: Basin Area.	Maximum Supply.		Length of escape or arch of surplus Bund.	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.
		Sq. M.	C. ft.	C. ft.	Ft.	Ft.	Ft.	Ft.	C. ft.
Periakulam Tank	2.5	500	"	Nil	Nil	3.63	1.63	0.0	1
Sevelkulam Tank & channel	1.0	350	"	Nil	Nil	2.25	0.75	0.0	Nil
Thoomhakulam Tank	1.0	675	"	Not stated	Not stated				

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. S.—Surplus sluice vent area.

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

Periakulam Tank—The surplus of this Tank crosses the South India Railway line. The bund is low in some places and needs to be raised and repaired. The tank has two irrigation sluices which are apparently in good order, but it has no surplus work, it is therefore proposed to construct a masonry weir.

The estimate provides for raising and repairing the bund and constructing

Note for Bunds—Red entries in this note are to be printed in Clarendon type and note in para is altered to suit.

a masonry weir.

Sevelkulam Tank & Channel—This tank commands the South India Railway and its surplus crosses the line. The bund requires raising and widening in many places. The channel has two small breaches which are to be closed and the banks repaired. The tank is provided with an irrigation sluice which is in good order but it has no surplus work.

The estimate provides for raising the tank and channel banks, closing breaches and for constructing a weir.

Thoomhakulam Tank. This is a detached plain fed tank, it has not been repaired for many years, the bund is consequently much worn and weak. The tank is provided with an irrigation sluice which is in good order and it is apparently provided with a surplus work.

The

The estimate provides for raising and repairing the bund & constructing a masonry weir with two vents. The estimate which is a large one should have been supported by Longitudinal and cross sections.

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	Items of Estimate	Fund Ordinary Agricultural Irrigation		Total for each tank &c.
		Original works	Repairs	
Periakulam Tank	Raising and repairing the bund	"	250	700
	Constructing a masonry weir	450	"	
Sivelkulam Tank and channel	Raising and repairing the Tank & channel banks	"	240	320
	Constructing a masonry weir	80	"	
Thoomakulam Tank	Raising & repairing the bund	"	1190	1540
	Constructing a masonry weir	350	"	

J.
The Secretary to Govt.
Public Works Dept.
15-10-1900

W. Kulendran
Sd/-
Chief Engineer for Irrigation

1877.

From
The Chief Engineer for Irrigation

P.W.D.

165377

1681

Dated 16th
Recept. 16th } February 1877.

Ends

No. III-W

Tank Repairs - Tirunelveli District
note forwarding for sanction, estimates
for Rs. 2560 for certain —

No. 663

Jan 17-2-77

E. I. Form No. 3.

No 559 7/19 Feb/77

4
Irrigation
Accts

The following Estimates for Irrigation
Works in the ~~Tirunelveli~~ ^{Tirunelveli} Northern Range
~~Tirunelveli~~ ^{Tirunelveli} District, forwarded by
the Chief Engineer for Irrigation with his
Memorandum marginally noted are sanctioned.

No. III.W. dated 16 Feb 1877.

Irrigation.

Name of Tank.	Provision of Estimate.	Fund. <i>ordinary agricul</i> <i>tural district</i>	Amount	Irrigation Register No.
Periakulam Tank	Repairing bund	Repairs	250	1 } 324 I
	Weir	original works	450	
Sevelkulam Tank & channel	Repairing tank and channel banks	Repairs	240	2 } 325 I
	Weir	original works	80	
Thambakulam Tank.	Repairing bund	Repairs	1190	1 } 326 I
	Weir	original works	350	

2. These sanctions
are registered as
shown above.

Col. } Tirunelveli.
Collector }
R. P. W. A. }
Ch. En. for Irrig. with } Encl. 2
Revenue Dept. }

Jan. 16/77

Rept 23. 2. 77

Ch. En.

1871
Govt. of 1877 Madras.
PUBLIC WORKS.

To The N.E. Linnelly

Dated

Issued

Recd.

Encl.

G. O., 17th Feb. 1877, No. 539.

Nos. 453-64

Sanks, Linnelly & Co.

The estimates aggregating
Rs 2500 for repairs to
certain —, sanctioned

2/5
2/5