

(1) Number of pages _____

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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	2426	Press
B.P. No.		Mis.
Dated	13-9-	1956

Not to be folded or roughly handled



Proceedings of the Madras Government, Public Works Department,
13th September 1876. No. 2,426.

Read the following:—

No. 180-W.

No. 161. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Shermadevi Range are forwarded by the
Officiating District Engineer, Tinnevely,
No. 29, dated 9th May 1876. with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
			RS.
Ambasamudrum ...	Vickramasingapuram.	Singaperumal Tank ...	180
Do. ...	Alwarkurichi ...	Odapun Tank ...	420
Tenkasy ...	Nelagram ...	Pasupathiperi Tank ...	810
Do. ...	Kulasagaraputti ...	Kulasagaraperi Tank ...	1,280

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.	During the previous 4 years.	OUTLAY.		
						PROPOSED.		
						Capital.	Revenue.	Average Annual Proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Singaperumal Tank ...	53	157	133	133	Nil.	...	180	...
Odapun Tank ...	16	90	153	152	...	...	420	...
Pasupathiperi Tank ...	38	285	294	297	...	...	810	...
Kulasagaraperi Tank...	121	521	521	600	...	...	1,280	...

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.
		per Catchment Second.	per Channels Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
	SQ. M.	C. FT.	C. FT.	FT.	FT.	FT.	FT.	C. FT.	NO.
Singaperumal Tank ...	...	...	28.62	Not stated.	Not stated.	Not stated.	Not stated.	Not stated.	Nil.
Odapun Tank ...	...	...	60.00	Nil. Not stated.	Nil. Not stated.	3.0	2.0	...	...
Pasupathiperi Tank ...	...	...	38.67	Nil. Not stated.	Nil. Not stated.	4.5	3.5	...	...
Kulasagaraperi Tank ...	2	711	67.00	Nil. W 36	Nil. 36	3.75	3.0	500.9	...
				W 36	36	3.75	1.75	500.9	

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.

Proceedings of the Madras Government, Public Works Department,
13th September 1876. No. 2,426.

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

Singaperumal Tank.—Repairing the bund and sluice.

Odapun Tank.—Raising the bund and repacking the revetment.

Pasupathiperi Tank.—Raising and repairing the bund, and constructing an irrigation sluice.

Kulasagaraperi Tank.—Raising and repairing the bund, and also repairing the weir.

Whereas in the case of the first three tanks no weirs exist or have been provided for, it is explained in the reports that ample means of disposing of surplus over rock or hard gravel exist and may be safely continued.

4. No plans accompany these estimates, but without longitudinal and cross sections of the bunds the quantity of earth required cannot well be estimated, and certainly for the three last tanks on the list such data are necessary.

The revetment for the Kulasagaraperi tank should be pitched at a slope of 45° with a backing 9 inches thick of gravel and a foundation of broken stone. The stones need not be squared as shown in the sketch to the specification. The weir should be of sufficient length to discharge the surplus irrespective of the aid of the vents, unless indeed a supplementary escape can be formed at the flank of the bund. This question should be considered and dealt with before the repairs are taken up.

The District Engineer should be reminded that the instructions already issued require that tanks should, as far as practicable, be dealt with in groups having a natural connection, and that all considerations of revenue and expenditure should extend over the whole group.

With reference to rates it is to be remarked that the charge of Annas 8 per cubic yard for rebuilding the Odapun tank revetment with the old material is too high, judging from experience in other localities, and a reduction should be made.

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.	Item of Estimate.	FUND.			Total for each Tank, &c.
		Capital Ordinary.	ORDINARY AGRICULTURAL.	Repairs.	
			Original Works.		
Singaperumal Tank	Repairing the bund and sluice	RS.	RS.	RS.	RS.
Odapun Tank	Raising the bund and repacking the revetment	...	...	180	180
Pasupathiperi Tank	Raising and repairing the bund	...	...	420	420
Kulasagaraperi Tank	Constructing an irrigation sluice	...	140	670	810
	Raising and repairing the bund and also repairing the weir	...	...	...	
		...	...	1,280	1,280

OOTACAMUND,
7th September 1876.

(Signed)

A. DEC. SCOTT, Major, R.E.,

Dy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

To the Secretary to Government, Public Works Department.

Proceedings of the Madras Government, Public Works Department,
13th September 1876. No. 2,426.

No. 162. ORDER THEREON, 13th September 1876, No. 2,426.

IRRIGATION, No. 20.
Account.

No. 180-W, dated 7th September 1876.

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

Name of Work.	Item of Estimate.	Fund.	Amount.	Irrigation Registry No.
			RS.	
Singaperumal Tank	Repairing the bund and sluice	Ordinary Agricultural Repairs.	180	141-I.
Odapun Tank	Raising the bund and repacking the revetment	Do. do.	420	142-I.
Pasupathiperi Tank	Raising and repairing the bund	Do. do.	670	1 } 143-I.
Kulasagaraperi Tank	Constructing an irrigation sluice	Do. Original Works.	140	
	Raising and repairing the bund, and also repairing the weir	Do. Repairs	1,280	144-I.

2. These sanctions are registered as shown above.

(True Extract.)

Colonel,

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

To the District Engineer, Tinnevely.

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

Ed. A. Grubert.
Spare Copies

Ootacamund 7th September 1876.
 No. 180-W.

Note by the Chief Engineer for Irrigation.

No. 29.

Dated 9 May 1876.

Encls. 4

The following Estimates from the *Chemadani* Range are forwarded by the *offg. District Engineer Tirunelveli* with his letter marginally noted:—

Taluq.	Village.	Work.	Rs.	Amount.
	<i>Ambasamudram.</i>	<i>Vikramasingapuram-Singaperumal Tank</i>	180	
	<i>— do. —</i>	<i>Alwarthurchi - Odapum Tank</i>	420	
	<i>Tenkasi.</i>	<i>Melagram - Pacupathuperi Tank</i>	870	
	<i>— do. —</i>	<i>Kulasagaraputti - Kulasagaraperi Tank</i>	1280	

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.	During the previous 4 years.	OUTLAY.		
						Proposed.		
						Capital.	Revenue.	Average annual proportion of Charges to Revenue.
	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Singaperumal Tank</i>	52	157	133	133	<i>Nil</i>		180	
<i>Odapum Tank</i>	16	90	152	152			420	
<i>Pacupathuperi Tank</i>	38	285	294	297			870	
<i>Kulasagaraperi Tank</i>	121	521	521	600			1280	

of the bund. This question should be considered and dealt with before the repairs are taken up.

The District Engineer should be reminded that the instructions already issued require that tanks should as far as practicable be dealt with in groups having a natural connection, and that all considerations of revenue and expenditure should extend over the whole group.

With reference to rates it is to be remarked that the charge of annas 8 per cubic yard for rebuilding the Odappan Tank retentment with the old material is too high, judging from experience in other localities, and a reduction should be made.

Note for Printer— Red entries in this note are to be printed in Clarendon type— & note in para 2 altered to—

E. J. Enn 288

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.				Total for each Tank, &c.
		Capital Ordinary.	Primary Revenue Agricultural	Extension and Improvements	Repairs.	
Singaperumal Tank.	Repairing the bund & sluice -	"	"		180	180
Odappan Tank	Raising the bund & repacking the retentment -	"	"		420	420
Panpathiperi Tank	Raising & repairing the bund -	"	"		670	810
	Constructing an irrigation sluice -	"	140	"		
Kulasagaraperi Tank	Raising & repairing the bund and also repairing the weir -	"	"		1280	1280

Ad. S. S. S.

Major R. E.

Dy. Chief Engineer for Irrigation
for Chief Engr for Irrigation.

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

18 P.W.D.

15 SEP 76

From
The Chief Engineer for Irrigation
To The Secretary to Govt
P. W. D.

Dated 7th } Sep. 1876
Despatched 8th }
Encls. 2
N: 180-W.

Irrigation Estimates — Note
submitting for sanction certain
— from the Tirumalveli
District.

E. I. Form No. 3.

No. 2426 of 13th Sept 1876

The following Estimates for Irrigation
works in the *Tirumalveli* Range,
Tirumalveli District, forwarded by the
Chief Engineer for Irrigation with his Memo.
marginally noted are sanctioned:—

No. 180-W.
dated 7th September 1876

Name of Work.	Item of Estimate.	Fund.	Amount	Irrigation Registry No.
Singaperumal Tank	Repairing the bund & sluice	Ordinary Agricultural Repairs	180	141-I
Adapum Tank	Raising the bund & repairing the revetment	Do - Do -	420	142-I
Pacupathiperi Tank	Raising & repairing the bund & constructing an irrigation sluice	Do - Do -	670	143-I
		Do Original Works	140	
Kulasegaram Tank	Raising & repairing the bund & also repairing the sluice	Do Repairs	1280	144-I

2. These sanctions are registered as shown above.

W. S. S.

S. E. Tirumalveli ✓
Collector - do ✓
C. E. for S. with 5 Encls ✓
En P. W. D. ✓
Recd Sept ✓

Decd 30/9/76

1461

13-9-76
9-9-76 O. S. S. 9 Sep

6695:71

Govt. of 1876 Madras.

PUBLIC WORKS.

To

Mr. W. C. Linnelly

Dated

Issued

Recd.

Encl.

G. O., 13th Sept 1876, No. 2426

Nos. 16/2

Tanks. Linnelly

8th. Estimates for
the repairs & improvements
to certain — canals.

Ent. in Reg.
2-10-76

Copy
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