

(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.	1928	Press
B.P. No.		Mis. _____
Dated	28. 7	CR 76 —195—

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
23rd July 1876. No. 1,923.*

Read the following:—

No. 111-W.

No. 500.

Note by the Chief Engineer for Irrigation.

THE following estimates from the No. 1 or Northern Range are forwarded by the
No. 3, dated 1st April 1876. Officiating District Engineer, Tinnevely,
with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
Streevelputhur	Kunnur	Shenkulam Tank ...	RS.
Do.	Maraneri	R. No. 3, V Tank ...	715
Sattur	Mudukalankulam ...	Pennaykulam Tank ...	520
Do.	Verduputti	Kalayenkulam Tank ...	1,470
			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.		
						Capital.	Revenue.	Average Annual Portion of Charges to Revenue
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Shenkulam Tank	76	567	625	723	Nil.	...	715	22 89
Maraneri Tank	63	211	198	235	Nil.	280	240	52 53
Pennaykulam Tank	84	649	516	616	Nil.	500	890	56 97
Kalayenkulam Tank.	61	486	440	450	160	...	560	32 72

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 Second.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Shenkulam Tank ...	1	563	108	Nil.	Nil.	Not	stated.	0.6	No.
Maraneri Tank ...	1	562.5	..	W 40 } K 21.75 } Nil.	58	4.5	2.5	531.1	Nil.
Pennaykulam Tank	3.5	1,296	..	W 56 } K 21 } K 37.5 }	74	3.0	1.5	415.8	Nil.
Kalayenkulam Tank	1.5	736.8	..	W 98 } K 45 } W 45 }	98 38.5 45	4.5	2.0	666.9 1301.5 636.8 785.6	Nil.
						4.5	2.25		Nil.

NOTE.—The proposed dimensions of escapes and heights of bund are entered in large type. The existing dimensions in small type. The following abbreviations are used:—K.—Kalingulah 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,
28th July 1876. No. 1,928.

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

Shenkulam Tank.—Raising and repairing the bund, extending the irrigation sluice, and constructing a surplus outlet partly weir and partly kalingulah.

Maroneri Tank.—Raising and repairing the bund, repairing the sluices, revetting a portion of the bund with new stones, and constructing a surplus outlet partly weir and partly kalingulah.

Pennaykulam Tank.—Raising and repairing the bund, repairing the sluice rebuilding an irrigation sluice, and extending the body wall of the kalingulah and converting it into a weir.

Kulayenkulam Tank.—Raising and repairing the bund, repairing the kalingulah and converting it into a weir.

4. Surplus weirs should be of sufficient length to dispose of maximum flood discharge independently of any vents below crest level. Such vents may be given to the extent necessary for irrigation purposes, but unless the circumstances are peculiar, as for instance where room for a long weir is not available, vents should not be provided for the discharge of surplus when the working of such openings must be left to villagers.

5. The Shenkulam tank surplus weir should be 70 feet long instead of 40 feet. It may be of the form shown in design No. 5, Circular No. 67, and it should be placed, if possible, where the ground is not more than one foot below F. T. L. The amount, Rupees 255, of the estimate will more than suffice.

6. The Maraneri tank weir should be of the same kind, and the crest should be 80 feet long.

7. The design of the Mudukalankulam Pennaykulam weir is suitable if the rock be such as to stand a 6-feet overfall, and if the weir cannot conveniently be placed where rock 1 to 2 feet below F. T. L. is to be found. The sluice design does not conform to the requirements of Circular No. 35. It should be modified as shown on the plan, and the increased cost will be about 80 Rupees, raising the total to Rupees 245.

8. 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.	
			ORDINARY—AGRICULTURAL.			
			Original Works.	Repairs.		
Shenkulam Tank	...	Raising and repairing the bund, &c.	...	Rs.	Rs.	Rs.
Maraneri Tank	...	Constructing a surplus weir	...	...	460	715
	...	Repairing bund and sluices	...	...	...	
	...	New revetment	...	255	...	
Pennaykulam Tank	...	Constructing a surplus weir	...	...	240	320
	...	Repairing the bund and one sluice and rebuilding another sluice.	...	80	...	
	...	Extending surplus weir	...	200	...	
Kalayenkulam Tank	...	Repairing the bund and removing the dam stones of Kalingulah, &c.	...	580	970	1,350
	...		...	...	...	
	...		...	...	560	

(Signed) A. MC. SCOTT, Major, R. E.,
Dy. Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department,
28th July 1876. No. 1,928.

No. 501.

ORDER THEREON, 28th July 1876, No. 1,928.

IRRIGATION, No. 55.

Account.

No. 111-W, dated 20th July 1876.

THE following estimates for Irrigation Works in the No. 1 or Northern 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.
		Ordinary	Agricultural.		
Shenkulam Tank	Raising and repairing the bund, &c.	Repairs	...	460	1} 76 I.
	Constructing a sluice	Original Works	...	255	2}
Maraneri Tank	Repairing bund and sluices	Repairs	...	240	1} 77 I.
	New revetment	Original Works	...	80	2}
	Constructing a surplus weir	Dr.	...	200	3}
Pennaykulam Tank	Repairing the bund and one sluice and rebuilding another sluice.	Repairs	...	970	1} 78 I.
Kulayenkulam Tank	Extending surplus weir	Original Works	...	580	2}
	Repairing the bund and removing the dam stones of kalingulah, &c.	Repairs	...	560	79 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 Tinnevely.
" Chief Engineer for Irrigation.
" Examiner of Public Works Accounts.
" Revenue Department.

Exd. W. H. French.

Spare Copies

1/111-W. *Botacamund, 25th July 1876.*

Note by the Chief Engineer for Irrigation.

No. 3

Dated *1st April 1876.*

Encls. 18.

The following Estimates from the *N. 1st Division Range* are forwarded by the *Offg. District Engineer* *Simmsally* with his letter marginally noted:—

Taluq.	Village.	Work.	Rs.	Amount.
		<i>Struvellaputhur. Kumm. Shentkulam Tank</i>	<i>715</i>	
		<i>do. Karaneri. 2nd 3rd Tank</i>	<i>520</i>	
		<i>Sattur. Hindu Kalankulam. Pinnaykulam</i>	<i>1470</i>	
		<i>do. Vooduputhi. Kalayankulam Tank</i>	<i>560</i>	

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.	Capital.	Average annual proportion of Charges to Revenue.
						Rs.	Rs.	Rs.
<i>Shentkulam Tank</i>	<i>76</i>	<i>567</i>	<i>625</i>	<i>723</i>	<i>nil</i>	<i>715</i>	<i>22.88</i>	
<i>Karaneri Tank</i>	<i>62</i>	<i>211</i>	<i>198</i>	<i>235</i>	<i>nil</i>	<i>280</i>	<i>240</i>	<i>52.52</i>
<i>Pinnaykulam Tank</i>	<i>84</i>	<i>649</i>	<i>576</i>	<i>616</i>	<i>nil</i>	<i>580</i>	<i>890</i>	<i>56.97</i>
<i>Kalayankulam Tank</i>	<i>61</i>	<i>486</i>	<i>440</i>	<i>450</i>	<i>160</i>	<i>560</i>	<i>32.72</i>	

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.		
						Ft.	Ft.		
Sq. M.	C. ft.	C. ft.	Ft.	Ft.	Ft.	Ft.	C. ft.	No.	
Shenkulam Tank	1	562	108	nil	nil	not stated	0.0	nil	
Maraneri Tank	1	562	"	nil	nil	not stated	0.0	nil	
Pennayankulam Tank	3.5	1296	"	237.5	82	not stated	66.9	nil	
Kalayankulam Tank	1.5	768	"	245	30.5	not stated	56.8	nil	

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—:

Shenkulam Tank. Raising and repairing the bund, extending the irrigation sluice, and constructing a surplus outlet partly weir and partly Kalingulah.

Maraneri Tank. Raising and repairing the bund, repairing the sluices, resetting a portion of the bund with new stones, and constructing a surplus outlet partly weir and partly Kalingulah.

Pennayankulam Tank. Raising and re-

-pairing the bund, repairing the sluice, rebuilding an irrigation sluice and extending the body wall of the Kalingulah and converting it into a weir.

Kalayankulam Tank. Raising and repairing the bund, repairing the Kalingulah and converting it into a weir.

4. Surplus weirs should be of sufficient length to displace of maximum flood discharge independently of any vents below crest level. Such vents may be given to the extent necessary for irrigation purposes but unless the circumstances are peculiar as for instance where room for a long weir is not available, vents should not be provided for the discharge of surplus when the working of such openings must be left to villagers.

5. The Shenkulam Tank surplus weir should be 70 feet long instead of 20 feet. It may be of the form shown in Design No 5 Circular No 67, and it should be placed if possible where the ground

is not more than 1 foot below F. T. L.
The amount Rupees 255 of the estimate
will more than suffice.

6. The Maraneri Tank weir should
be of the same kind, and the crest
should be 80 feet long.

7. The design of the Muddukalam
Kulam Pennaykulam weir is suitable
if the rocks be such as to stand a
6 feet overfall, and if the weir cannot
conveniently be placed where rock
1 to 2 feet below F. T. L. is to be found.

The sluice design does not conform
to the requirements of Circular No. 35.
It should be modified as shown on
the plan and the increased cost will
be about 80 Rupees raising the total
to Rupees 245.

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

Note for Printer: The notes are to be printed
in the margin of the report.

Name of Tank	Items of Estimate	Tamil Ordinary Agricultural		Total for each Tank Rs.
		Original Works	Repair	
Shenkulam Tank	Raising & repairing the bund to _____		460	715
	Constructing a surplus weir _____	255		
Maraneri Tank	Repairing bund & sluices _____		240	520
	New revetment _____	80	"	
	Constructing a surplus weir _____	200	"	
Pennaykulam Tank	Repairing the bund and one sluice and rebuilding another sluice _____	"	970	1580
	Extending surplus weir _____	580	"	
Malaysankulam Tank	Repairing the bund & removing the dam stones of Kalmigulak _____		560	560

Majoor R. B.
Dy. Chief Engineer for Irrigation
for Chief Engineer for Irriga

The Secretary to Govt P.W.D.

FORMER CASES.

No. of 187

1876 Deph.
Issue Case.

I. E. Form No. 31.

1876 No. 5460

Chief Engineer for Irrigation.

Receipt No. 1111

Dated 20 July 1876.

Recd 31st in 2

1111.

Subject:-

Submits estimates for repairs to certain Tanks in the Tinnevely District.

ENCLOSURES.

- 4 Spec. Repnt.
- 3 Repnt.
- 4 Calc. of Expenditure
- 4 Hrt. & Sett. Gls.
- 3 Plans.

18

REMINDERS ISSUED.

No. 1, dated 187
" 2, "
" 3, "
" 4, "
" 5, "

KEEP-WITHS.

26.7.76 (28.7.76)
on Chut & Regly

E. I. Form No. 3.

No. 1920 of 20 July 76. M.D.
Proceedings of the Madras Govt.
Read the following
From the Chief Eng for Irrigation (H.E. dated 20 July 76) 2000

The following Estimates for Irrigation

works in the W. or Northern Range,

Tinnevely District, forwarded by the

Chief Engineer for Irrigation with his Memo.

marginally noted are sanctioned:-

No. 111 - W.

dated

20 July 1876.

Name of Work.	Item of Estimate.	Fund.	Amount	Irrigation Registry No.
Shentkulam Tank.	Raising & repairing the bund & sluice	Ordinary Agricultural Repairs	460	1
	Constructing a sluice	original works	255	2
	Repairing bund & sluices	Repairs	240	1
Maraneri Tank	Renovating the bund & sluice	original works	80	2
	Constructing a surplus weir		200	3
	Repairing the bund and one sluice and re-building another sluice	Repairs	970	1
Pannaykulam Tank	Extending surplus weir	original works	580	2
	Repairing the bund & removing the dam stones of Kalingulak	Repairs	560	1

1. Tinnevely
Collector - do
for J. with 18 Encl. ✓
P. H. A.
on dep. ✓

2. These sanctions are registered as shown above.

Decd 17/8/76

5460 CH.

Govt. of Madras.
PUBLIC WORKS.

To

The H. C. Linnavelly

By

Per

For

G. O. 28 July No. 1978

Nos. 570/57

Jan Ko. - Linnavelly &

Estimates for the
repairs of certain —

sanctions of —

for the year 1896-97