

(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. 634 (2)	Press Mis.
Dated 24-2-	1877.

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
24th February 1877. No. 634.*

Read the following :—

No. 116-W.

No. 606. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the No. 1 or Northern Range are forwarded by the
No. 177, dated 6th February 1877. Officiating District Engineer, Tinnevely,
with his letter marginally noted :—

Taluq.	Village.	Work.	Amount.
			RS.
Sunkernainorecovil ...	Perumbathoor ...	Periacolum Tank ...	3,150
Do. ...	Sunkernainorecovil ...	Oorkolum do. ...	155
Do. ...	Mooveranthaly ...	Periacolum do. ...	180
Do. ...	Palamcottay ...	Avaniconaindel Tank ...	430
Do. ...	Sunkernainorecovil ...	Solayankolum do. ...	225
Do. ...	Vaghaikolum ...	Vaghaikolum do. ...	205
Total ...			4,345

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 6 years.	OUTLAY.			
					During the previous 4 years.	Proposed Ordinary Agricultural Irrigation.		
						Original Works.	Repairs.	Average Annual proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CENT.
Perumbathoor Periacolum Tank	407	2,838	908	2,911	Nil	..	3,150	69.3
Oorkolum Tank	42	260	83	200	..	..	155	37.3
Mooveranthaly Periacolum Tank	62	252	102	171	..	..	180	35.3
Avaniconaindel Tank	92	496	326	601	..	..	430	26.3
Solayankolum Tank	53	273	84	244	..	..	225	53.6
Vaghaikolum Tank	36	182	100	191	..	..	205	41.0
Total ..	692	4,351	1,603	4,218	..	..	4,345	54.2

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 second.	Tanks above.
		Catchment per Second.	Channels per Second.	Total.	Effective.	Above F.T.L.	Above M.T.L.		
Perumbathoor Periacolum Tank.	SQ. M.	C. FT.	C. FT.	VERT. C 145.5	FT. 86	Not stated.	Not stated.	C. FT. 1,422.4	No. 2
Oorkolum Tank	3.0	714	..	Nil.	Nil	4.5	1.5	1422.4	2
Mooveranthaly Periacolum Tank.	4.0	849	..	*W 112	112	3.75	2.25	691.2	2
Avaniconaindel Tank	4.0	850	..	C 36	27	Not stated.	Not stated.	254.7	2
Solayankolum Tank	4.0	850	..	S 4.5	4.5	4.5	2.5	858.8	10
Vaghaikolum Tank	3.0	714	..	*W 86	86	3.75	2.25	820.8	2
				S 4.5	4.5	Not stated.	Not stated.	188.4	3
				Nil.	Nil	3.75	2.25	868.9	
				*W 133	133	Not stated.	Not stated.	0.0	
				C 27	24	3.75	2.25	691.2	
				S 6	6	Not stated.	Not stated.	0.0	
				*W 133	133	Not stated.	Not stated.	0.0	
				S 6	6	3.75	2.25	691.2	
				Nil.	Nil	Not stated.	Not stated.	0.0	
				*W 112	112	3.75	2.25	691.2	

* Works required but for which no estimates have been received.

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:—C.—Calingulah with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. S.—Surplus sluice vent area. V.—Village.

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

Perumbathoor Periacolum Tank.—This is an important tank and in need of immediate repair. The bund is very low and weak throughout. The tank has two Irrigation sluices in very fair order and three calingulahs, two of which require slight repairs. This tank is well situated for a relief work.

The estimate provides for raising and repairing the bund.

Oorkolum Tank.—The bund of this tank is low and weak and requires to be raised and strengthened. The tank has two Irrigation sluices in need of trifling repairs. It has no surplus work.

The estimate provides for raising and repairing the bund.

Mooveranthaly Periacolum Tank.—This tank has had no outlay on it for many years. The bund requires to be raised and strengthened. The tank is provided with an Irrigation sluice and a calingulah, the former is in a ruined condition and requires to be rebuilt, and the latter needs to be repaired and extended.

The estimate provides for raising and repairing the bund.

Avaniconaindel Tank.—This tank has not been repaired for many years, and its bund is consequently in very bad condition; it requires raising and strengthening throughout. The tank is provided with two Irrigation sluices which are in need of repairs. It has no surplus work.

The estimate provides for raising and repairing the bund.

Solayankolum Tank.—The bund of this tank has not been repaired for many years, and it is consequently in very bad condition and requires to be raised and

strengthened. The tank is provided with two Irrigation sluices and a calingulah, all of which are in working order, but the latter needs to be lengthened to render it efficient.

The estimate provides for raising and repairing the bund.

Vaghaikolum Tank.—This tank has had no expenditure on it for many years. The bund is low and weak and requires to be raised and strengthened throughout. The tank has one Irrigation sluice in tolerable repair, but it is not provided with a surplus work.

The estimate provides for raising and repairing the bund.

In submitting these estimates the Officiating District Engineer states that as the works they provide for are intended specially for famine relief only the earthwork necessary to put the tanks into a good state of repair has been entered. The repairs of the masonry works should be arranged for as soon as possible, and the provision and extension of means of surplus necessary to ensure the safety of the tanks should not only not be lost sight of but the estimates should be sent in without delay.

Sections of the bank of the Perumbathoor Periacolum ought to have accompanied the estimates.

The estimates are recommended for sanction.

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.	
Perumbathoor Periacolum Tank.	Raising and repairing the bund	RS. ...	RS. 3,150	RS. 3,150
Oorkolum Tank	Do. do.	...	155	155
Mooveranthaly Periacolum Tank.	Do. do.	...	180	180
Avaniconaindel Tank...	Do. do.	...	430	430
Solayankolum Tank ...	Do. do.	...	225	225
Vaghaikolum Tank ...	Do. do.	...	205	205

FORT ST. GEORGE,
20th February 1877.

(Signed) G. T. WALCH,
Acting Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

To the Secretary to Government, Public Works Department.

No. 607. ORDER THEREON, 24th February 1877, No. 634.

IRRIGATION, No. 60.
Account.

No. 116—W, dated 20th February 1877.

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.

Proceedings of the Madras Government, Public Works Department,
24th February 1877. No. 634.

Name of Work.	Item of Estimate.	Fund, Ordinary Agri- cultural, Irrigation.	Amount.	Irrigation Re- gistry No.
Perumbathoor Periacolum Tank.	Repairing bund ...	Repairs ...	Rs. 3,150	327-I.
Oorkolum Tank	Do. ...	Do. ...	155	328-I.
Mooveranthaly Periacolum Tank.	Do. ...	Do. ...	180	329-I.
Avaniconaindel Tank	Do. ...	Do. ...	430	330-I.
Solayankolum Tank	Do. ...	Do. ...	225	331-I.
Vaghaikolum Tank	Do. ...	Do. ...	205	332-I.

3. These sanctions are registered as above shown.

(True Extract.)

(Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
Secretary to Government.

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

Exd. E. C. Shunker.
Spare Copies

No. 1.

OFFICE OF CHIEF ENGINEER FOR IRRIGATION,
Fort St. George 20th Feby. 1877.

No. 116 W.

Note by the Chief Engineer for Irrigation.

177
Dated 6th Feby 1877.

Encls. 13.

The following Estimates from the 4th or Northern Range are forwarded
by the Offg. District Engineer Tinnevelly with his letter
marginally noted:—

Taluq.	Village.	Work.	Amount. Rs.
Sunkernainor Coil.	Perumbathoor Periacolum Tank.		3150
do.	Sunkernainor Coil } Oorkolum Tank.		155
do.	Mooveranthaly Periacolum Tank.		180
do.	Palamcottay Avaniconaindel Tank.		430
do.	Sunkernainor Coil } Solayankolum Tank.		225
do.	Vaghaikolum V. Tank.		205
Total Repairs—			4345

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—Ordinary Maintenance Rs.	Repairs Rs.	Average annual proportion of Charges to Revenue. Rs.
Perumbathoor Periacolum Tank.	407	2888	908	2911	Nil	3150		69.3
Oorkolum Tank.	42	260	83	200		155		37.3
Mooveranthaly Periacolum Tank.	62	252	102	171		180		35.3
Avaniconaindel Tank.	92	496	326	501		430		26.3
Solayankolum Tank.	53	273	84	244		225		53.5
Vaghaikolum Tank.	36	182	180	191		205		41.0
Total	692	4357	1603	4218		4345		54.2

II.—Hydraulic Details.

Name of Work.	Catchment Basin Area.	Maximum Supply.		Length of Escape, or <i>area of surplus discharge.</i>		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.		
Perumbathoor Periacolum Tank	2.0	504	960	115.5	86	Not stated	1.55	2	
Corkolam Tank	3.0	714	2	112	112	Not stated	2.00	2	
Mooveranthaly Periacolum Tank	4.0	849	2	36	27	Not stated	2.47	2	
Avaniconaindel Tank	4.0	850	2	112	112	Not stated	2.00	10	
Solanankolam Tank	4.0	850	2	112	112	Not stated	2.00	2	
Vijayankolam	3.0	714	2	112	112	Not stated	2.00	2	

1. Note — The surplus...

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.—Woir with flat cross. E.—Escape at ground level. B.—Bund of tank. S.—Surplus discharge at tank.

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

Perumbathoor Periacolum Tank. This is an important Tank and in need of immediate repair. The bund is very low and weak throughout. The tank has two irrigation sluices in very fair order, and three Kalingulahs two of which require slight repairs. This tank is well situated for relief work.

The estimate provides for raising and repairing the bund.

Corkolam

Corkolam Tank. The bund of this tank is low and weak and requires to be raised and strengthened. The tank has two irrigation sluices in need of trifling repairs. It has no surplus work.

The estimate provides for raising and repairing the bund.

Mooveranthaly Periacolum Tank.

This tank has had no outlay on it for many years. The bund requires to be raised and strengthened. The tank is provided with an irrigation sluice and a Kalingulah, the former is in a ruined condition and requires to be rebuilt, and the latter needs to be repaired and extended.

The estimate provides for raising and repairing the bund.

Avaniconaindel Tank. This tank has not been repaired for many years and its bund is consequently in very bad condition; it requires raising and strengthening throughout. The tank is provided with two irrigation sluices, which are in need of repairs. It has no surplus work.

The

The Estimate provides for raising and repairing the bund.

Solayankulam Tank. The bund of this tank has not been repaired for many years, and it is consequently in very bad condition and requires to be raised and strengthened. The tank is provided with two irrigation sluices and a Kalingulah all of which are in working order, but the latter needs to be lengthened to render it efficient.

The estimate provides for raising and repairing the bund.

Vaghaikolam Tank. This tank has had no expenditure on it for many years. The bund is low and weak and requires to be raised and strengthened throughout. The tank has one irrigation sluice in tolerable repair, but it is not provided with a surplusage work.

The estimate provides for raising and repairing the bund.

In submitting these estimates the officiating District Engineer states that as the works they provide for are

976 3
are intended specially for famine relief only, the earthwork necessary to put the tanks into a good state of repair has been entered. The repairs of the masonry works should be arranged for as soon as possible, and the provision and extension of means of surplus necessary to ensure the safety of the tanks should not only not be lost sight of, but the estimates should be sent in without delay.

Sections of the bank of the Perambathoor Perriacolam ought to have accompanied the estimates.

The estimates are recommended for sanction.

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

None

Name of Tank	Items of Estimate	Funds		Total of each Tank
		Ordinary Agricultural Irrigation	Original Works Repairs	
Perumbathoor Periacolum Tank	Raising and repairing the bunds	3150	3150	
Corkolam Tank	do do	155	155	
Mooveranthaly Periacolum Tank	do do	180	180	
Arumicopain Tank	do do	430	430	
Solayankolam Tank	do do	225	225	
Vaghaikolam Tank	do do	205	205	

C. W. D.

Acting Dy. Chief Engineer
for Irrigation
for Chief Eng. p. 1000

The Secretary to Govt.
C. W. D.

C. W. D.

From
The Chief Clerk for Surg.
F. W. D.
22 FEB 77
No. 1911

Dated 20 }
Decr. 22 } February 1877

Smith. B.

1016-14.

Tank repairs - Immediately Dist.
- Note recommending for sanction
estimates p. h. 4345 for certain -

1666.

E. I. Form No. 8

THE following Estimates for Irrigation works in the *221 or Northern Range, Tinnevely* District, forwarded by the Chief Engineer for Irrigation with his Memo. marginally noted are sanctioned :—

No. 116 W dated 20th
February 1877.

Name of Work.	Item of Estimate.	Fund. <i>Ordinary Agri. cultural - Irrigation</i>	Amount	Irrigation Registry No.
Perumbathoor Periacolum Tank	Repairing bund	Repairs	3150	327-I
Porkolam Tank	— do: — do —	— do —	155	328-I
Mooixeran. = thaly Periar = colam Tank	— do — do —	— do —	180	329-I
Avaniconain = del Tank	— do — do —	— do —	430	330-I
Solayankko = lam Tank	— do — do —	— do —	225	331-I
Vaghaiko = lam Tank	— do — do —	— do —	255	332-I

2 These sanctions are registered as above shown.

El. Pinacally ✓
Collected in ✓
A. S. p. 1 with 7 Prof 8
Handed d. ✓
Handed Prof. ✓
C. J. S. ✓ *Spd. - 3. 3.*

W. J. [unclear] [unclear]

MS.A.3.3.77

Car. - 2.7-2.8-2.9

To *Mr. B. Lanevally*

Issued

Recd.

Encl.

G. O., 24th Feb. 1877, No. 634

Nos. 606-607

San No. Universally B¹
The estimates aggregating
Rs 4365 for raising and
repairing the lands of C. S.
—, sanctioned.

But in May.