

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

REVENUE DEPARTMENT

G.O. No. 523
B.P. No. Press.
Mis.

Dated 29-1-1877 197.

Not to be folded or roughly handled

523 1/3

*Proceedings of the Madras Government, Public Works Department,
20th January 1877. No. 190.*

Read the following :—
No. 44 W.

No. 370. *Note by the Chief Engineer for Irrigation.*
THE following estimates from the No. 1 or Northern Range are forwarded by the
No. 154, dated 3rd January 1877. Officiating District Engineer, Tinnevely,
with his letter marginally noted :—

Taluq.	Village.	Work.	Amount.
Strivilliputtur ..	Ayeradarmam ..	Sirukulam Tank ..	RS. 1,510
Do. ..	Sholapurum ..	Tholacudi Tank and supply channel ..	2,720
Do. ..	Karakunnee ..	Palamathurai Tank ..	570
Do. ..	Poovany ..	V. Tank ..	110
Total ..			4,910

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 five years.	Highest Revenue for five years.	* OUTLAY.			
					During the previous four years.	PROPOSED ORDINARY AGRICULTURAL IRRIGATION.		
						Original Works.	Repairs.	Average annual proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CT.
Sirukulam Tank ..	102	594	628	711	157	125	1,385	53.0
Tholacudi Tank and supply channel ..	333	2,544	1,492	1,500	41	600	2,120	37.0
Palamathurai Tank ..	67	634	485	645	..	78	492	23.5
Poovany do. ..	60	400	408	433	308	110	..	20.4
Total ..	562	4,072	3,013	3,239	506	913	3,997	36.0

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.
Sirukulam Tank	1.5	472.5	..	K 51.5	28	Not stated.		142.5	Nil.
				W 51.5	} 75.5	4.5	3.0	465.9	
				W 24.0					
				K 22					
				W 36					
				W 34.5					
Tholacudi Tank and supply channel	1.0	562.5	1793.1	W 22	} 83	1.5	0.0	1481.0	..
				W 36					
				W 34.5					
				W 22					
				W 36					
				W 34.5	} 92.5	4.5	2.0	1714.3	
				Nil.					
Palamathurai Tank	1.0	300	185.69	W Nil.	Nil.	Not stated.		0.0	..
				W 51	51	4.5	2.5	484.6	
Poovany Tank	1.5	405	..	W Nil.	Nil.	4.5	2.5	0.0	..
				W 42	42	4.5	2.5	399.1	

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. V.—Village.

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

Sirukulom Tank.—The position of this tank is at the foot of the Satharagherry ghauts, and is immediately above a number of tanks which are situated to the west of Road No. XI. This tank has not been repaired for a number of years, and the bund is in very bad condition, it was breached in eight places during the monsoons of 1874-75, but they were closed immediately at a cost of Rupees 200. The tank is provided with two irrigation sluices which are falling into disuse for the want of repair, it has also a calingulah connected with a discharging sluice of two vents; it is proposed to repair and extend the irrigation sluices and to convert the calingulah and discharging sluice into a weir by the following arrangement. The crest of the calingulah, which is at present 1 foot below F.T.L., will be raised 1 foot, and the dam stones removed. The crest of the discharging sluice which is 2 feet higher than F.T.L. is to be lowered to F.T.L., and the vents are to be closed. The damaged wing-walls in rear are to be rebuilt, and an additional apron is to be constructed.

The estimate provides for repairing the bund, extending and improving two irrigation sluices, converting the calingulah and discharging sluice into a weir, and for constructing an additional weir at the south end of the tank.

Tholacudi Tank.—This is an important tank, situated at the south of the taluk, and is supplied by means of an offtake from the Sholapuram river and also by a drainage area of 1 square mile. The tank has three outlets, of which two are weirs situated at the east end of the bund, one of which has four under sluices, and at the west end of the bund there is a calingulah with two vents. The weir with four vents and the calingulah discharge into the river and the other weir into the tanks below.

The calingulah is to be converted into a weir by the removal of the dam stones and the lowering of the crest of the body wall to F.T.L.; a new apron is also to be constructed.

The weir without vents is to have its wings raised, and a vent 3 feet x 3.5 feet made in the body wall.

The weir with four vents is to have its western abutment and wing rebuilt, and the eastern abutment and wing raised.

The channel bank has several breaches in it, which are to be repaired and protected by stone revetments.

The estimate provides for the thorough repairs of the bund and masonry works. The bund is to be raised 4.5 feet above F.T.L. The irrigation sluice is to be constructed on a larger scale, the breaches in the supply channel are to be closed and revetted, and provision is made for the necessary repairs to the upper and lower anicuts.

Palamathurai Tank.—This tank is situated at the north of the taluk, and is the first of a group of tanks supplied by a branch of the surplus channel of the Thevarurichi Peria Colam in the Madras District, and also by a drainage area of 1 square mile. The bund is very low and weak, it is revetted to an extent of 104 lineal yards and the revetment is in good order, the irrigation sluice is in need of trifling repairs;

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the tank has no outlet at present and it is intended to construct a masonry weir. This tank has not been repaired for the last fifteen years, it is therefore considered expedient to put it in thorough order for its own safety as well as for the safety of the tanks lying below it which are also in bad order.

The estimate provides for raising and repairing the bund, repairing an irrigation sluice, and constructing a masonry weir.

Poorany Tank.—The bund of this tank was thoroughly repaired in 1873-74 at a cost of Rupees 308; the bund and irrigation sluice are in perfect order, but the tank is without an outlet which is much needed. The estimate provides for constructing a masonry weir at the south end of the bund.

4. It is clear from the reports which accompany these estimates that each of the three tanks first mentioned above belongs to a group. It has been pointed out in Circulars issued from this office that in such cases the whole group should be taken up and provided for at once in a comprehensive manner, or that at any rate if it is absolutely to deal with one tank at once the particulars of revenue and assessment of the group and the outlay on it for a series of years should be given. It would be necessary under ordinary circumstances to return the estimates to the District Engineer, Tinnevely, for the additional information referred to, but as work is stated to be urgently required in the district to afford relief to persons suffering from the prevailing scarcity, it is recommended that the estimates be sanctioned. The District Engineer should however supply a statement of revenue, cultivated area, and outlay for the past four years for the group in each case; he should also state what progress is being made towards the grouping of tanks in his district, and he should explain why, in the cases under notice, he did not deal with each group as a whole.

5. 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	
Sirukulom Tank	Repairing the bund and improving two irrigation sluices	Rs.	Rs. 1,125	1,510
	Improving and converting calingulah, and discharging sluice into a weir	125	260	
	Constructing a masonry weir	1,370	750	2,720
Tholacudi Tank and supply channel	Repairing the bund, calingulah and weirs	600	492	570
	Repairing the channel and anicuts	78	110	
Palamathurai Tank	Reconstructing an irrigation sluice	110	..	110
Poorany Tank	Repairing the bund and irrigation sluice	..	..	..
	Constructing masonry weir	..	..	..
	Constructing a masonry weir	..	..	..

FORT ST. GEORGE,
20th January 1877.

(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.

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20th January 1877. No. 190.

No. 371. ORDER THEREON, 20th January 1877, No. 190.

IRRIGATION, No. 43.

Account.

No. 44 W, dated 15th January 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.

Name of Work.	Item of Estimate.	Fund, Ordinary Agricultural Irrigation.	Amount.	Irrigation Registry No.
Sirukulam Tank ..	Repairing bund and sluices	Repairs ..	1,135	1
	Converting calingulah and sluice into weir.	Do. ..	260	2
Tholacudi Tank and Supply Channel.	Weir	Original Works	125	3
	Repairing bund, calingulah and sluices	Repairs ..	1,370	1
Palamathurai Tank ..	Do. channel and anicuts.	Do. ..	750	2
	Reconstructing irrigation sluice	Original Works	600	3
Poovany Tank ..	Repairing bund and sluice	Repairs ..	493	1
	Weir	Original Works	78	2
		Do.	110	

2. These sanctions are registered as shown above.

(True Extract.)

(Signed) G. W. WALKER, Major-General, R.E.,
Secretary to Government.

/ True Copy

W. Walker

Secy to G.O. P.W.D.

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

Exd. S. T. Austin.

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PUBLIC WORKS.

To

THE DISTRICT ENGINEER,
TINNEVELLY,
&c. &c. &c.

Dated January 20th.

Issued

Recd. — 26.

Est.

G. O., 20th January 1877, No. 100.

JANUARY.

Nos. 370-371.

8th Dec 1877
Rev 27/1

No 523.

Communicated to Mr
Rogers

29 Jan 77

Works, Tinnevely District.—The estimates
for the repair of certain —, sanctioned.