

(1) Number of pages 16

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	469 (W)	Press Mis.
Dated	10. 2.	1877.

Not to be folded or roughly handled

Read the following:—

No. 100 W.

No. 296. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Northern Range are forwarded by the Officiating District Engineer, Tinnevely, with his letter marginally noted.
No. 161, dated 17th January 1877.

Taluq.	Village.	Work.	Amount.
Streveliputhur	Alathoor	V. Tank	RS. 380
Do	Thachagudi	Periakulam tank	960
Do	Eruchinuthem	V. Tank	345
Do	Vellapottal	Periakulam tank	800
Do	Govindovulloor	V. Tank	870
Do	Sundrapaudiem	Kadaneri tank	340
Total			3,695

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.		
						Original Works.	Repairs.	Average annual portion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS. Per cent.
Alathoor tank	50	247	251	250	36	..	380	33.1
Thachagudi Periakulam tank	125	590	552	552	..	..	960	34.7
Eruchinuthem tank	91	330	360	350	379	..	345	40.2
Vellapottal Periakulam tank	71	348	436	436	174	..	800	44.6
Govindovulloor tank	89	318	477	454	65	..	870	39.8
Kadaneri tank	44	214	178	182	..	..	340	38.2
Total ..	470	2,047	2,254	2,224	654	..	2,695	38.6

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.		
Alathoor tank	sq. m.	c. ft.	c. ft.	ft.	ft.	ft.	ft.	c. ft.	no.
Thachagudi (Periakulam tank.	..	594	..	C 60	36	Not stated.	4'5	324'1	1
Eruchinuthem tank ..	2	504	..	C 84	60	Not stated.	2'5	540'1	1
Vellapottal Periakulam tank.	3	714	..	W 60	60	Not stated.	4'5	570'1	2
Govindovulloor tank ..	2	504	..	W 78	78	Not stated.	3'75	481'4	3
Kadaneri tank	0'75	240	..	W 21	21	Not stated.	2'25	199'5	1
				W 73	73	Not stated.	4'5	693'7	..
				W 24	24	Not stated.	4'5	228'0	1
				W 50	50	Not stated.	2'5	475'1	..
				W 37	37	Not stated.	3'75	228'3	..

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. V.—Village.

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

Alathoor Tank.—The bund of this tank is very low and weak and needs to be raised and strengthened throughout. The tank has three Irrigation sluices and a calingulah, the former require repairs and the latter needs to be lengthened. The estimate provides for raising and repairing the bund.

Thachagudi Periakulam Tank.—This tank has not been repaired for the last twenty years ; its bund is consequently in very bad order and requires raising and strengthening throughout. The tank has no surplus work, but has two Irrigation sluices which are in need of repair. The estimate provides for raising and repairing the bund.

Eruchinuthem Tank.—This tank was provided with two new Irrigation sluices in 1875-76 at a cost of Rupees 379, but its bund has not been repaired for many years and it is consequently in very bad order. The tank has no surplus work which it needs and will be provided hereafter ; the present estimate provides for raising and repairing the bund.

Vellapottal Periakulam Tank.—The bund of this tank is low and weak and requires raising and strengthening. In 1874-75 a sum of Rupees 124 was expended in closing breaches in the bund. The tank has two Irrigation sluices and a surplus weir which are in good order. The estimate provides for raising and repairing the bund.

Govindovulloor Tank.—The bund of this tank has not been repaired for many years, and is therefore in a very low and weak condition ; the Irrigation sluices are more or less in need of repair, and the surplus weir requires to be extended to

render it efficient. But the estimate provides for only raising and repairing the bund.

Kadaneri Tank.—This tank has not been repaired for many years, and consequently the bund is very low and in bad order. The tank has one Irrigation sluice, which is in fair order, but it has no surplus work, which is much needed. The estimate provides for the bund repairs only.

4. The repairs of the bunds of the foregoing tanks have already been undertaken as Famine Relief Work, and the provisions of the estimates are limited accordingly. Supplementary estimates should, however, be prepared and submitted as soon as possible for the additional surplus works required to render the tanks safe and for the repairs to sluices, and this work should be carried out during the ensuing financial year from the Public Works allotment.

5. Longitudinal and cross-sections of the bunds have not been sent as accompaniments to the estimates ; care should, however, be taken that all earthwork is regulated by levels and profiles set up before a commencement is made. Without this precaution much of it will be thrown away.

6. 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.	
Alathoor tank	Raising and repairing the bund	RS.	RS.	RS.
Thachagudi Periakulam tank.	Do do	...	380	380
Eruchinuthem tank ...	Do do	...	960	960
Vellapottal Periakulam tank.	Do do	...	345	345
Govindovulloor tank.	Do do	...	800	800
Kadaneri tank	Do do	...	870	870
		...	340	340

FORT ST. GEORGE,
7th February 1877.

(Signed) A. DE C. SCOTT, Major, R.E.,
Dy. Chief Engr. for Irrigation,
for Chief Engr. for Irrigation.

To the Secretary to Government, Public Works Department.

No. 297.

ORDER THEREON, 10th February 1877, No. 469.

ACCOUNT, No. 31.

Irrigation.

No. 100 W, dated 7th February 1877.

THE following estimates for Irrigation Works in the 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,
10th February 1877. No. 469.

Irrigation.

Name of Tank.	Provision of Estimate.	Fund, Ordinary Agricultural, Irrigation.	Amount.	Irrigation Register No.
Alathoor tank ...	Repairing bund. ...	Repairs ...	Rs. 380	318-I.
Thachagudi Periakulam tank ...	Do ...	Do ...	960	319-I.
Eruchinuthem tank ...	Do ...	Do ...	345	320-I.
Vellapottal Periakulam tank ...	Do ...	Do ...	800	321-I.
Govindovulloor tank ...	Do ...	Do ...	870	322-I.
Kadaneri tank ...	Do ...	Do ...	340	323-I.

2. These sanctions are registered as shown above.

(True Extract.)

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

E. I. Form No. 1.

OFFICE OF CHIEF ENGINEER FOR IRRIGATION.

Fort. St. George. 7th February 1877.

No. 100.W.

Note by the Chief Engineer for Irrigation.

No. 161

Dated 17th Jan 1877.

The following Estimates from the Northern Range are forwarded by the officiating District Engineer *Simmell* with his letter marginally noted:—

Taluq.	Village.	Work.	Rs.	Amount.
<i>Shrevelliputhur</i>	<i>Alathoor</i>	<i>V. Tank</i>	<i>380</i>	
<i>do</i>	<i>Thachagudi</i>	<i>Periakulam Tank</i>	<i>960</i>	
<i>do</i>	<i>Eruchinuthem</i>	<i>V. Tank</i>	<i>345</i>	
<i>do</i>	<i>Vellapottal</i>	<i>Periakulam Tank</i>	<i>800</i>	
<i>do</i>	<i>Govindovulloor</i>	<i>V. Tank</i>	<i>870</i>	
<i>do</i>	<i>Sundrapondiem</i>	<i>Kadaneri Tank</i>	<i>340</i>	
<i>Total Rs. 3695</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.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	During the previous years.	OUTLAY.		
						original agricultural works.	repairs.	Average annual proportion of Charges to Revenue.
	Acres	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
<i>Alathoor Tank</i>	<i>50</i>	<i>247</i>	<i>257</i>	<i>250</i>	<i>36</i>	<i>"</i>	<i>380</i>	<i>33.1</i>
<i>Thachagudi Periakulam Tank</i>	<i>125</i>	<i>570</i>	<i>552</i>	<i>552</i>	<i>Nil</i>	<i>"</i>	<i>960</i>	<i>34.7</i>
<i>Eruchinuthem Tank</i>	<i>91</i>	<i>330</i>	<i>360</i>	<i>350</i>	<i>379</i>	<i>"</i>	<i>345</i>	<i>40.2</i>
<i>Vellapottal Periakulam Tank</i>	<i>71</i>	<i>348</i>	<i>436</i>	<i>436</i>	<i>174</i>	<i>"</i>	<i>800</i>	<i>44.6</i>
<i>Govindovulloor Tank</i>	<i>87</i>	<i>318</i>	<i>477</i>	<i>454</i>	<i>65</i>	<i>"</i>	<i>870</i>	<i>39.8</i>
<i>Kadaneri Tank</i>	<i>44</i>	<i>214</i>	<i>178</i>	<i>182</i>	<i>"</i>	<i>"</i>	<i>340</i>	<i>38.2</i>
<i>Total</i>	<i>470</i>	<i>2047</i>	<i>2254</i>	<i>2224</i>	<i>654</i>	<i>"</i>	<i>3695</i>	<i>38.6</i>

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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.		
Alathoor Tank	Nil 594	.	K. 60	36	Not stated	326.1			1
Thachagudi Periakulam Tank	Nil 594	.	Nil	Nil	Not stated	0.0			1
Eruchinathum Tank	2 584	.	Nil	Nil	Not stated	0.0			2
Vellapottal Periakulam Tank	3 714	.	W. 21	21	Not stated	199.5			3
Govindovulloor Tank	2 504	.	W. 24	24	Not stated	328.0			1
Kadaveri Tank	0.75 240	.	Nil	Nil	Not stated	0.0			"

12/17 1 4 4 5 2 4 3 4 5 3 4

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 flash crest. E.—Escape at ground level. B.—Bund of tank. V.—Village.

3. The following is a summary of the work proposed in each case.

Alathoor Tank—The bund of this Tank is very low and weak and needs to be raised and strengthened throughout. The tank has three irrigation sluices and a Kalingulah, the former require repairs and the latter needs to be lengthened, the Estimate provides for raising and repairing the bund.

Thachagudi Periakulam Tank—This tank has not been repaired for the last 20 years, its bund is consequently in very

poor order. Red entries in this note are to be printed in black type and note in para 2 altered to suit.

had order & requires raising & strengthening throughout. The tank has no surplusage work but has two irrigation sluices which are in need of repair, the Estimate provides for raising and repairing the bund.

Eruchinathum Tank—This tank was provided with two new irrigation sluices in 1875-76 at a cost of Rs 379. but its bund has not been repaired for many years and it is consequently in very bad order. The tank has no surplusage work; which it needs and will be provided hereafter, the present Estimate provides for raising & repairing the bund.

Vellapottal Periakulam Tank—The bund of this tank is low and weak and requires raising & strengthening. In 1874-75 a sum of Rs 124 was expended in closing breaches in the bund. The tank has two irrigation sluices and a surplus weir which are in good order. The Estimate provides for raising & repairing the bund.

Govindovulloor Tank—The bund of this tank

tank has not been repaired for many years and is therefore in a very low and weak condition, the irrigation sluices are more or less in need of repair and the surplus weir requires to be extended to render it efficient. But the estimate provides for only raising and repairing the bund.

Kadaveri Tank - This tank has not been repaired for many years and consequently the bund is very low and in bad order. The tank has one irrigation sluice which is in fair order but it has no surplus work which is much needed. The estimate provides for the bund repairs only.

4. The repairs of the bunds of the foregoing tanks have already been undertaken as famine relief work & the provisions of the estimates are limited accordingly. Supplementary estimates should however be prepared & submitted as soon as possible for the additional surplus works required to render the tanks safe and for the repairs to sluices.

3 and this work should be carried out during the ensuing financial year from the Public Works allotment.

Longitudinal & cross sections of the bunds have not been sent as accompaniments to the Estimates. Care should however be taken that all earthwork is regulated by levels and profiles set up before a commencement is made. Without this precaution much of it will be thrown away.

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	Amount		
		Original Estimate	Revised Estimate	Total for each tank
Alathoor Tank	Raising and repairing the bund.	"	380	380
Thachagudi Periakulam Tank	Raising and repairing the bund.	"	960	960
Eruchinuthur Tank	Raising and repairing the bund.	"	345	345
Vellapottal Periakulam Tank	Raising & repairing the bund.	"	800	800
	Raising			

Govindobulloo	Raising & repairing	870	870
Tank	the bund		
Kadaneri	Raising & repairing	340	340
Tank	the bund		

Col. Scott

Major. R. C.

Dy Chief Engineer for Irrigation

for Chief Engineer for Irrigation

The Secretary to Government

Public Works Dept.

C. J. S.

W. R.

1877.

From
The Chief Engineer for Irrig.

P.W.D.

8 FEB 77

NR 1369

Dated 7. } Feby. 1877.
Recept 8. }

Encl 7.

N^o 100-W.

Tank Repairs. - Tinnevely
District. - Note forwarding
for sanction, estimates for
Rs. 3695 for certain —

N^o 396-

E. I. Form No. 3.

No 469 of 10 Feb/77

Accd
9/2/77

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

No. 100 W. d/y February 1877.

Irrigation.

Name of Tank.	Provision of Estimate.	Fund. Ordinary Agricul- tural - Service	Amount	Irrigation Register No.
Alathon Tank	Repairing bund	Repairs	380	318-I
Maachagudi	do do	do	960	319-I
Priahyelan Tank	do do	do	345	320-I
Eruchinuthum Tank	do do	do	800	321-I
Vellapottal Pira	do do	do	870	322-I
Kulams Tank	do do	do	340	323-I
Gorindovullon Tank	do do	do		
Nadameri Tank	do do	do		

2. These sanctions are registered
as shown above.

Aug 8
B-2

G.S. } Tinnevely ✓
Coll. }
Chk. for In. with 7 Enclosure
R.P.D.A. ✓
Revenue Dept. ✓

Recd. 16-2-77

15/2

NR

Cir 9-2-77 K/10-2-77

Govt of 1877 Madras.
PUBLIC WORKS.

To

Mr D. G. Linnerville

Dated

Issued

Recd.

Encl.

G. O. ~~10th~~ 1877, No. 469

Nos. 296-7

Santho Linnerville Esq
The estimates amounting
to Rs 3695 for repairing
the bunds of certain —
sanctioned —

Santho Linnerville Esq

Ar 9-2-77 11-10-2-77