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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	3576	Press
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Dated	22-12-	195
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Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
22nd December 1876. No. 3,516.

Read the following :—

No. 306 W.

No. 533. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the No. 3 or Chingleput Range are forwarded by the Superintending Engineer, Chingleput, with his letter marginally noted :—
No. 1,303, dated 20th July 1876.

Taluq.	Village.	Work.	Amount.
			RS.
Chingleput	Sittamanur ..	S. No. 84 V. Tank ..	320
Do. ..	Kilakaranay ..	" 83 do. ..	670
Do. ..	Panankottur ..	" 81 V. small Tank ..	115
Do. ..	Do. ..	" 81 „ large do. ..	535

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.		
						Original Works.	Repairs.	Average annual proportion of Charges to Revenue.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	PER CT.
Sittamanur Tank ..	82	247	207	235	Nil.	45	275	30.9
Kilakaranay do. ..	113	310	332	356	"	"	670	40.3
Panankottur small Tank ..	10	45	78	92	"	145	115	29.5
Do. large do. ..	47	255	293	333	"	"	390	36.5
Total ..	252	857	910	1,015	Nil.	190	1,450	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 Second.	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.
Sittamanur Tank ..	75	464	..	K 30 W 30 E 90 K 16.5	21.5 120 13.25	3.0 3.0 3.0	1.5 1.5 1.5	643.1 643.3 77.4	Nil " "
Kilakaranay do. ..	375	292	..	W 16.5 E 62 E 29	78.5 20 20	3.5 2.5 2.5	2.0 1.5 1.5	417.4 55.4 182.8	" " "
Panankottur small Tank ..	25	223	..	E 20+46 E 17	69 17	2.5 3.5	1.5 2.0	86.6 575.2	"
Do. large do. ..	75	464	..	E 113	113	3.5	2.0	575.2	"

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. S.—Revenue Survey No.

Proceedings of the Madras Government, Public Works Department,
22nd December 1876. No. 3,516.

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

Sittamanur Tank.—Repairing the bund and irrigation sluice, planting kuskus and turfing, raising the body wall of the existing calingulah up to F.T.L., and removing the dam stones so as to convert it into a weir, and also lowering the end of the bund to F.T.L. for the purpose of forming a grass planted escape.

Kilakaranay Tank.—Raising and repairing the bund, planting kuskus and turfing, repairing two irrigation sluices, raising the body wall and removing the dam stones of the calingulah so as to convert it into a weir forming a grass planted escape, and also substituting a masonry irrigation sluice for the existing pot sluice.

Panankottur small Tank.—Repairing the bund and irrigation sluice, planting grass and turfing and also forming a grass planted escape.

Panankottur large Tank.—Repairing the bund and two irrigation sluices, planting grass and turfing, and also constructing a rough stone escape.

The Sittamanur tank, with a catchment basin 0.75 of a mile in area, irrigates, according to the Superintending Engineer's report, 82 acres of land. The Kilakaranay tank, with 0.375 square miles of catchment, 113 acres. The Panankottur tank, with 0.75 square miles, 47 acres.

These irrigated areas are extremely large compared with the drainage into the tanks, and some explanation was desirable.

The irrigation sluice for the Kilakaranay tank supplies 40 acres of land, and a discharge of 1 cubic foot per second should suffice. The lower aperture might be reduced in height with advantage.

The wings of the rough stone escape of the Panankottur tank should be portions of arcs of circles whose centres are in the outer edge of the apron retaining wall. The recurving shown on the plan is object onable.

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.		Total for each Tank, &c.
		Original Works.	Repairs.	
Sittamanur Tank ..	Repairing bund and irrigation sluices..	RS. 45	RS. 255	RS. 320
Kilakaranay do. ..	Improving calingulah ..	..	20	..
	Grass planted escape ..	..	..	6.0
Panankottur small do. ..	Repairing bund and two irrigation sluices, improving calingulah and forming grass planted escape ..	..	450	..
	Reconstructing an irrigation sluice ..	..	220	115
Do. large do. ..	Repairing bund and irrigation sluice ..	..	103	..
	Grass planted escape ..	..	12	535
	Repairing bund and two irrigation sluices ..	..	390	..
	Rough stone escape ..	145	..	..

FORT ST. GEORGE,
19th December 1876.
To the Secretary to Government, Public Works Department.

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

Proceedings of the Madras Government, Public Works Department,
22nd December 1876. No. 3,516.

No. 534. ORDER THEREON, 22nd December 1876, No. 3,516.

THE following estimates for Irrigation Works in the No. 3 or Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

IRRIGATION, No. 41-G.		Account.	
Name of Work.	Item of Estimate.	Fund.	Amount.
			RS.
Sittamanur Tank ..	1. Repairing bund and irrigation sluice..	Repairs ..	255
	2. Improving calingulah ..	Original Works ..	45
	3. Grass planted escape ..	Repairs ..	20
Kilakaranay do. ..	1. Repairing bund and two irrigation sluices, improving calingulah and forming grass planted escape ..	Do. ..	450
	2. Reconstructing an irrigation sluice ..	Do. ..	220
Panankottur small do. ..	1. Repairing bund and irrigation sluice..	Do. ..	103
	2. Grass planted escape ..	Do. ..	12
Do. large do. ..	1. Repairing bund and two irrigation sluices ..	Do. ..	390
	2. Rough stone escape ..	Original Works ..	145

2. These sanctions are registered as shown above.
(True Extract.)

Major-General, R.E.,
Secretary to Government.

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

Exd. S. T. Austin.
Spare Copies

Tort St. George, 19th December 1876..

W. 306-W.

Note by the Chief Engineer for Irrigation.

No. 1303

Dated 20th July 1876.

Indor. 23.

The following Estimates from the *Chingput* Range are forwarded by the *Superintending* Engineer *Chingput* with his letter marginally noted:—

Taluq.	Village.	Work.	Rs.	Amount.
<i>Chingput.</i>	<i>Sithamannur</i>	<i>Shosh & Sank</i>	320	
<i>d.</i>	<i>Kilakarannay</i>	<i>13 d.</i>	670	
<i>d.</i>	<i>Pannakottur</i>	<i>81 small d.</i>	115	
<i>d.</i>	<i>d.</i>	<i>81 large d.</i>	535	

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 Rs.	Extraordinary Rs.	Average annual proportion of Charges to Revenue. per cent Rs.
<i>Sithamannur Sank.</i>	82	247	207	235	Nil	45	275	30.9
<i>Kilakarannay d.</i>	113	310	332	356	Nil		670	40.3
<i>Pannakottur small d.</i>	10	45	78	92	Nil		115	29.5
<i>Pannakottur large d.</i>	47	255	293	332	Nil	115	390	36.5
<i>Total</i>	252	857	910	1015	Nil	160	1450	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.
Sittamannu Tank. -	75	464	.	K 30	24.5	3.0	1.5	54.3	Nil
Kilakarannag d. -	375	292	.	K 16	13.25	3.0	1.5	77.4	.
Pannankottur small d.	25	223	.	E 20	20	2.5	1.5	55.4	.
Pannankottur large d.	75	464	.	E 17	17	3.5	2.0	36.5	1.

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.—Kalingulak with dam stones. W.—Weir with flush crest. E.—Escape at ground level. B.—Bund of tank. V.—Village. S.—Town. Survey at

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

Sittamannu Tank.—Repairing the bund and irrigation sluice, planting bushes & turfing raising the body wall of the existing Kalingulak up to F.T.L. and removing the dam stones so as to convert it into a weir, and also lowering the end of the bund to F.T.L. for the purpose of forming a grass planted escape.

Kilakarannag Tank.—Raising and repairing the bund, replanting bushes and turfing repairing two irrigation sluices, raising the body wall and removing the dam stones

Note for printer.—Red entries in this note are to be printed in Clarendon type, and note in para 2 altered.

of the Kalingulak, so as to convert it into a town's forming a grass planted escape and also substituting a masonry irrigation sluice for the existing pot sluice

Pannankottur small Tank.—Repairing the bund and irrigation sluice, planting grass and turfing and also forming a grass planted escape

Pannankottur large Tank.—Repairing the bund and two irrigation sluices, planting grass & turfing and also constructing a rough stone escape

The Sittamannu Tank with a catchment basin of 0.75 of a mile in area, irrigates, according to the Superintending Engineer's report, 82 acres of land. The Kilakarannag Tank with 0.375 square miles of catchment irrigates 113 acres. The Pannankottur Tank with 0.75 square miles irrigates 47 acres.

These irrigated areas are extremely large compared with the drainage into the tanks and some explanation was desirable

The irrigation sluice for the Kilakarannag Tank supplies 82 acres of land and a discharge of 1 cubic foot per second should suffice. The lower aperture might be reduced in height with advantage

The wings of the rough stone escape of the Pannankottur Tank should be portions of arcs of circles whose centres are in the outer edge of the apron retaining wall

The recurring shows on the plan is ob-
jectionable.

These estimates are recommended for
sanction.

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

Name of Tank	Items of Estimate	Fund Ordinary Agricultural		Total for each Tank
		Original works	Repairs	
Sittamanur Tank	Repairing bund and irrigation sluices	.	255	320
	Improving kahupulak brass planted escape	45	20	
Kilakaraiy Tank	Repairing bund & two irrigation sluices, improving kahupulak	.	450	670
	forming grass planted escape	.		
	Reconstructing an irri- gation sluice	.	220	
Panankottur Small Tank	Repairing bund and irrigation sluices	.	103	115
	brass planted escape	.	12	
Panankottur Large Tank	Repairing bund and two irrigation sluices	.	390	535
	Rough stone escape	145	.	

Ans. S. C. C.

To
The Secretary to Government
Public Works Dept.

Major R. V.
Chief Engineer for Irrigation
for Chief Engineer for Sanitation

J. H. C.

Inv. Cir. Memo. No. 558/17/10/73.

Form No. 18.

P.W.D.

005076

11-2229

From

The Chief Engineer for Irrigation,

To

The Secretary to Government,

Public Works Department.

Dated 19 { Dec. } 1876.
Despatched 20 { Dec. }
Received

ENCLOSURE 23.

No. 306-W.

Subject.

Tanks Repair - Chingleput District
- Note submitting for sanction
estimates for certain -

No 533

The Secretary to Government
Public Works Dept.

E. I. Form No. 3.

No 3576 of 22 Dec 76

THE following Estimates for Irrigation
works in the 1803 or Chingleput Range,
Chingleput District, forwarded by the
Chief Engineer for Irrigation with his Memo.
marginally noted are sanctioned:—

No. 306-W.

dated 19th Decemr 1876.

Name of Work.	Item of Estimate.	Fund.	Amount	Irrigation Registry No.
Sillamanur Tank	Repairing bund & irrigation sluice	Repairs -	255	1
	Improving kalia gulah	Original work	40	2
	Plants planted escape	Repairs -	20	3
Kilakorunay Tank	Repairing bund & two irrigation sluices, improving kalia gulah and forming grass	Repairs -	450	1
	Planted escape	do.	220	2
Panamkottur small Tank	Repairing bund & irrigation sluice	do.	103	1
	Plants planted escape	do.	12	2
Panamkottur large Tank	Repairing bund and two irrigation sluices	do.	390	1
	Range stone escape	Original work	145	2

Chingleput -
Collector of do -

Ch. Engr. Irrig mth 23rd

Revenue Dept.

11-1-77

These sanctions are
registered as shown above

11-1-77

8229

Govt. of 1876 Madras.

PUBLIC WORKS.

To *Mr. D. B. Chingleput*

Dated

Issued

Recd.

Encl.

G. O. *22nd Dec.* 1876, No. *3516*

Nos. 533

Tanks, Chingleput Range.
Chingleput - Str: - The
Estimates amounting
to Rs: 1640 for repairs
& improvements to the
_____ , sanctioned

Left in Reg.