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MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

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Dated	27.3.	1876.

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12

*Proceedings of the Madras Government, Public Works Department,
27th March 1876.*

Read the following:—

No. 11-W.

No. 403. *Note by the Chief Engineer for Irrigation.*

THE following estimates from the Chingleput Range are forwarded by the Superintending Engineer, Chingleput, with his letter marginally noted:—

Taluq.	Village.	Work.	Amount.
Madranticum	...	Orathy Small Tank	RS. 725
"	...	" Moottyen Tangle	260
"	...	Lathoor Tank	867
Chingleput	...	Koonnavakem Tangle	211

2. The financial and hydraulic details of the irrigation works concerned are exhibited in the following statement:—

I.—Financial Details.

Name of Work.	Aysut Area.	Assessment.	Average Revenue for 5 years.	Highest Revenue for 5 years.	Expenditure during previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
	ACRES.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Orathy Small Tank	74	363	375	421	...	...	725	725
Do. Moottyen Tangle	20	136	133	193	...	...	260	260
Lathoor Tank	73	313	273	314	...	...	867	867
Koonnavakem Tangle	20	123	55	87	...	46	165	211

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.	
Orathy Small Tank	1.5	737	...	E 87	87	2.75	.75	551.2	...
Do. Moottyen Tangle	.75	464	...	E 83	83	4	2	519.5	...
Lathoor Tank	1.25	647	...	E 20	33	1.75	.5	93.9	...
Koonnavakem Tangle	.5	354	...	E 98	98	2.75	1.5	300.5	...
				...	...	2.75	.75	...	...
				E 72	72	4	2	458.1	...
				E 10	10	3.33	1.33	63.4	...
				E 37	37	4	2	175.8	...

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.—Woir 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.

Orathy Small Tank.—This tank was damaged by a cyclone in 1874. It discharges through an 87-feet opening, a breach cut down to F.T.L. It is proposed to replace the

*Proceedings of the Madras Government, Public Works Department,
27th March 1876.*

existing outlet by a rough-stone escape 82 feet in length which is calculated to discharge the drainage with a two-feet head. The estimate provides for raising and sectioning the bund, turfing and planting grass, repairing sluice, and constructing a rough-stone escape.

Orathy Mootty Tank.—This tank also was damaged by the cyclone of 1874. The surplus is discharged through a breach in the bund. It is proposed to remove the bund to F.T.L. and to extend the breach. The estimate provides for raising and sectioning the bund, turfing and planting tank grass, repairing the pot sluice, lowering the bund and extending the breach.

Lathoor Tank.—This tank is situated in the catchment ground of the Kulcolom Tank; its general condition is reported to be bad in consequence of its having suffered severely during the two last cyclones. It has two sluices—a pot and a masonry sluice; it is proposed to remodel the latter according to a plan now in use. The surplus is discharged at the north flank, but during floods temporary escapes are cut in the bund. It is proposed to construct a rough-stone escape 72 feet in length. The estimate provides for raising and sectioning the bund, turfing and planting tank grass, repairing sluice, and constructing a rough-stone escape.

Koonnavakem Tangle was breached by the floods of November last. The estimate provides for extending the existing cut from 10 to 37 feet in length, for raising and sectioning the bund, planting tank grass and turfing, revetting the end of the bund and constructing a sluice.

4. The lengths of rough escape provided should be as follow:—

Orathy Small Tank	...	...	...	100 feet.
Do. Mootty Tank	...	...	...	110 "
Lathoor Tank	...	...	...	100 "
Koonnavakem Tangle	...	...	...	60 "

5. The following statement shows the proposed distribution of the outlay recommended for sanction to the debit of the several agricultural heads of account involved:—

Name of Tank.	Nature of Work.	HEADS OF ACCOUNT.			
		Capital, Ordinary.	REVENUE.		Total for each Tank, &c.
			Extensions and Improve- ments.	Repairs.	
Orathy Small Tank	Raising and sectioning the bund, turfing and planting grass, repairing the sluice, and constructing a rough-stone escape...	RS.	RS.	RS.	RS.
Do. Mootty Tank	Raising and sectioning the bund, turfing and planting tank grass, repairing the pot sluice, and extending the existing breach for escape	...	...	725	725
Lathoor Tank	Raising and sectioning the bund, turfing and planting tank grass, repairing sluice, and constructing a rough-stone escape.	...	...	260	260
Koonnavakem Tangle	Raising and sectioning the bund, planting tank grass, turfing and revetting the end of bund	...	...	867	867
Do.	Constructing an irrigation sluice	46	...	165	211

FORT ST. GEORGE,
17th March 1876.

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

*Proceedings of the Madras Government, Public Works Department,
27th March 1876.*

No. 404. ORDER THEREON, 27th March 1876, No. 763.

IRRIGATION, No. 34.

Account.

No. 11-W., dated 17th March 1876.

THE following estimates for irrigation works in the Chingleput Range, Chingleput District, forwarded by the Chief Engineer for Irrigation with his memorandum marginally noted, are sanctioned:—

Name of Work.	Provision of Estimate.	Fund.	Amount.	Irrigation Register No.
Orathy Small Tank	Raising and sectioning the bund, turfing and planting grass, repairing sluice and constructing a rough-stone escape	Revenue, Repairs	725	60-I of 1875 76
Do. Mootty Tank	Raising and sectioning the bund, turfing and planting tank grass, repairing the pot sluice, and extending the existing breach for escape	Do. do.	260	61-I of "
Lathoor Tank	Raising and sectioning the bund, turfing and planting tank grass, repairing sluice and constructing a rough-stone escape...	Do. do.	867	62-I of "
Koonnavakem Tangle	Raising and sectioning the bund, planting tank grass, turfing and revetting the ends of bund	Do. do.	165	63-I of "
Do.	Constructing an irrigation sluice	Capital, Ordinary	46	

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. A. S. Rodgers.
Spare Copies

Fort St. George 17 March 1876.

No. 1111.

Note by the Chief Engineer for Irrigation.

No. 4269

Dated 24 Jan 1876

Encls 24

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

Taluq.	Village Estimate No.	Work.	Amount Rs.
<i>Madurantiam</i>	<i>Orathy Small Tank</i>		725
	<i>Orathy Mottyan Tangal</i>		260
	<i>Lathoor Tank</i>		867
<i>Chingleput</i>	<i>Koonnarakem Tangal</i>		211

2. The Financial and Hydraulic details of the Irrigation works concerned are exhibited in the following statement:-

I.—Financial Details.

Name of Work.	Area. Acres.	Assessment. Rs.	Average Revenue for 5 years. Rs.	Highest Revenue for 5 years. Rs.	Expenditure during previous 4 years. Rs.	Amount of Estimate.		
						Capital.	Revenue.	Total.
<i>Orathy Small Tank</i>	74	362	375	425	215		725	725
<i>Orathy Mottyan Tangal</i>	20	136	133	193	80		260	260
<i>Lathoor Tank</i>	73	312	273	214	80		867	867
<i>Koonnarakem Tangal</i>	20	123	55	87	80	46	165	211

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.
Orathy small Tank	1.5	737	mil	E 87	87	2.75	0.75	5512	mil
Orathy Mottayen Tank	3.75	464	mil	E 30	30	1.75	0.5	919	mil
Lathoor Tank	125	647	mil	mil	mil	2.75	0.75	mil	mil
Koonavakam Tank	3.5	352	mil	E 10	10	3.25	1.25	61.4	mil

NOTE.—The proposed dimensions of escapes and heights of bund are entered in red. The existing dimensions in black. In the MS. the entries in red denote proposed dimensions. The following abbreviations are used:—C.—Cullingah 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.

Orathy small tank. This tank was damaged by a cyclone in 1874. It discharges through an 87 feet opening, a breach cut down to F. T. L. It is proposed to replace the existing outlet by a rough stone escape 87 feet in length which is calculated to discharge the drainage with a 2 feet head. The estimate provides for

for raising and sectioning the bund, turfing and planting grass, repairing sluice, and constructing a rough stone escape.

Orathy Mottayen Tank. This tank was damaged by the cyclone of 1874. The surplus is discharged through a breach in the bund. It is proposed to remove the bund to F. T. L. and to extend the breach. The estimate provides for raising and sectioning the bund, turfing and planting tank grass, repairing the pot sluice, lowering the bund and extending the breach.

Lathoor Tank. This tank is situated in the catchment ground of the Kuloolom tank, its general condition is reported to be bad in consequence of its having suffered severely during the two last cyclones. It has two sluices, a pot and a masonry sluice; it is proposed to remodel the latter according to a plan now in use. The surplus is discharged at

at the north flank; but during floods temporary escapes are cut in the bund. It is proposed to construct a rough stone escape 72 feet in length. The estimate provides for raising and sectioning the bund, turving and planting tank grass, repairing sluice, and constructing a rough stone escape.

Koonnavakim Tangle was breached by the floods of November last. The estimate provides for extending the existing cut from 70 to 87 feet in length, for raising and sectioning the bund, planting tank grass and turving, rivetting the end of the bund and constructing a sluice.

The lengths of rough escape provided should be as follows:-

Orathy small Tank — 100 feet
 Orathy Mottayin Tangle — 170
 Lathoor Tank — 100
 Koonnavakim Tangle — 60

It is proposed that the following should be printed in the report on the subject of the tank and its improvement.

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

Name of Tank.	Nature of Work.	Heads of Account				
		Capital	Ordinary	Extraordinary	Repair	Total for each tank.
Orathy small Tank.	Raising & sectioning the bund, turving and planting grass, repairing the sluice and constructing a rough stone escape —					725 725
Orathy Mottayin Tangle.	Raising & sectioning the bund, turving & planting tank grass, repairing the pot sluice & extending the existing breach for escape —					260 260
Lathoor Tank.	Raising & sectioning the bund, turving & planting tank grass, repairing sluice & constructing a rough stone escape.					867 867
Koonnavakim Tangle.	Raising & sectioning the bund, planting tank grass, turving & rivetting the end of bund —					165
— do —	Constructing an irrigation sluice.	46				46
						211

M. WORKS FORM No. 3.

Current No.

From

The Chief Engr.
for Irrigation

No. 11W

Dated

Recd.

March 1876.

Subject :—

Subject:— Note on Estimates
for Irrigation Works
in the Chingleput Dt.

ENCLOSURES. 25

From

to

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22

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22

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9:

Orders and Proceedings in file.

[illegible]

No 763 S.H.B.

Proceedings of the Acad. Sci. East

Under date the 27th March/76.

Read the following

From

The Chief Eng. for Bristol (P.L. No. 118 of 14th March 1876)

The following
estimates for Irrigation

Hooks in the Chingleput

Range, Chongleput

Distinct, forwarded

By the Chief Engineer

for investigation with

his memorandum.

h: 11 W. dated 17 March 1966, marginally noted

are sanctioned. -

Samie

19985 17c
Govt. of 1876 Madras.
PUBLIC WORKS.

To

Mr N. G. Chongkoff

Dated

Issued

Recd

Encl

29/3
G. O. 27th March 1876 No 76311

Nos. 403 - 404

Sanitation Works Charge
put on
Estimates for improving
certain — sanctioned

403/4

Entered in the
18-4-76