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MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

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Dated	24-3-1876	186

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
6th March 1876.*

Read the following :—

No. 150.

No. 65. *Note by the Chief Engineer for Irrigation.*

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

Taluq.	Estimate No. 187	Work.	Amount.
Chingleput ...	...	Kachadimangalum Tank ...	RS. 440
Do. ...	...	Do. Tangle... ..	180
Do. ...	...	Mambakum Tank ...	300
Sydapet ...	...	Nandambakum Large Tank ...	675
Do. ...	...	Do. Tangle ...	395
Do. ...	...	Menambakum Tank ...	955

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.	Expenditure dur- ing previous 4 years.	AMOUNT OF ESTIMATE.		
						Capital.	Revenue.	Total.
Kachadimangalum Tank ...	ACRES. 41	RS. 157	RS. 153	RS. 185	RS. ...	RS. ...	RS. 440	RS. 440
Do. Tangle ...	12	61	67	77	...	...	180	180
Mambakum Tank ...	63	206	202	229	...	...	300	300
Nandambakum Large Tank ...	56	231	212	235	...	300	375	675
Do. Tangle ...	46	133	101	135	...	140	265	395
Menambakum Tank ...	154	456	342	411	...	175	780	955

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.		
Kachadimangalum Tank.	SQ. W. 1	C. FT. 562	C. FT. Not stated.	FT. ...	FT. ...	FT. 3	FT. 1	C. FT. 0.0	No. Not stat- ed.
Do. Tangle	5	354	...	E. 59 F. 13	59 33	3.37 1.37	2 1.37	280.3 82.3	...
Mambakum Tank	75	464	...	E. 37 C. 24.5	37 20.5	3.67 1.67	2 1.67	175.8 181.5	...
Nandambakum Large Tank.	54.37	614.9	...	W. 24.5 E. 24.5	49 ...	4 ...	2 ...	388.0 ...	...
Nandambakum Tangle...	37	343.3	...	E. 91	91	4	2.5	374.4	1
Menambakum Tank	75	553	...	E. 68	68	3.75	2.25	279.8	...
				90	90	4.5	3	555.5	...

NOTE.—The proposed dimensions of escapes and bunds are printed in large type. The following abbreviations are used:
E. Escape at ground level. B. Bund of tank.

Bund are printed in large type. The existing dimensions of Calingulah with dam stones. W. Weir with flush crest.

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6th March 1876.

3. The following is a summary of the work proposed to be carried out.

Kachadimangalum Tank.—This tank was breached in two places and was temporarily repaired. The bank is eroded and the sluice is leaky. It is proposed to raise and section the bank. To cut the end of the bund for a temporary escape. To turf, plant grass, clear away bushes and repair sluice.

Kachadimangalum Tangle.—This tank was breached in two places by floods and was temporarily repaired. The estimate submitted is for raising and sectioning the bank, turfing, clearing away bushes, planting grass, revetting the end of the bund next to the temporary sluice, and repairing sluice.

Mambakum Tank.—This tank was breached and temporarily repaired. The estimate submitted provides for raising and sectioning the bund, planting grass, and repairing the calingulah.

Nandambakum Large Tank.—It is proposed to construct a rough-stone outlet to this tank, to cut a surplus channel, and to extend a flood bank up to a drainage channel. A damaged sluice is replaced by an 8-inch pot sluice; another is proposed in the northern portion of the bund. The estimates submitted also provides for repairs, such as raising and sectioning the bank. The Nandambakum tank receives the local drainage besides the surplus of the village tangle situated immediately above, and surpluses into the Sydapet or Adyar river.

Nandambakum Tangle.—It is proposed to construct a rough-stone flush escape in the bund of this tangle, also to build a pot sluice. The estimates submitted provide also for repairs, such as raising and sectioning the bund, turfing slopes, &c. The Nandambakum tangle receives the drainage of the adjacent hills and surpluses into the village tank, from thence into the Sydapet river.

Menambakum Tank.—The bund of this tank is cut up in places and requires raising and sectioning, and its two irrigation sluices need repairing. The estimates submitted provide for the above as well as for a new rough-stone flush escape proposed to be built in the southern extremity of the bund. The Menambakum is an isolated tank, drains from the adjacent hills, and surpluses at the south end into the Adyar.

4. The escape for the Kachadimangalum tank should be 100 feet, and that for the tangle 55 feet in length. The general slope of the bed of the surplus channel from the Nandambakum tank should have been stated. The side slopes as shown in section are too steep; they should not be less than 1 to 1. The sketches of the pot sluices proposed for this tank should show the grooves for the shutters in section, and also some rough stone at the inlet and outlet. The discharge in cubic feet per second should be written on the plans. The concrete should be made with soorkee. The escape of the Nandambakum large tank should not be less than 120 feet in length. The ends of the bund which form the wings of Nandambakum tangle escape should be at a slope of not less than $1\frac{1}{2}$ to 1. Rough stone is required at the orifices of the pot sluice. The shutter should be shown. Subject to the alterations above noted, the estimates are recommended for sanction.

(Sigs) A. DE C. SCOTT, Major, R.E.,
for Chief Engineer for Irrigation.

Proceedings of the Madras Government, Public Works Department,
6th March 1876.

No. 66. ORDER THEREON, 6th March 1876, No. 595.

IRRIGATION, No. 7.

Account.

The following estimates for works in the Mount Range, forwarded by the Superintending Engineer, Chingleput, are sanctioned, and will be registered and

charged to the heads of account shown below:—

			Rs.
Irrigation Register, No. 28 I. of 1875-76—Repairing Kachadimangalum Tank. Revenue			
		(Repairs.)	440
Do.,	No. 29 I. of	do. do. Tangle. Do.	180
Do.,	No. 30 I. of	do. Mambakum Tank ... Do.	300
		do. Nandambakum Tank Do.	375
Do.,	No. 31 I. of	do. New pot sluices, and rough-stone escape Nandambakum Tank. Revenue Extensions and Improvements	300
		Repairing do. Tangle. Revenue (Repairs)	255
Do.,	No. 32 I. of	do. New pot sluice rough-stone escape Nandambakum Tangle. Revenue Extensions and Improvements	140
		Repairing Menambakum Tank. Revenue (Repairs)	780
Do.,	No. 33 I. of	do. Rough-stone escape do. do. Extensions and Improvements	140

2. The escapes severally noticed in the Note of the Chief Engineer for Irrigation should be lengthened as described therein.

3. The above sanctions have been registered as shown against each work.

(True Extract.)

C. S. Shanker 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. E. C. Shanker.

1/4 Spare Copies

Revenue Department

Nº 1211

Sept. of 1876

PUBLIC WORKS.



THE DEPARTMENT OF
PUBLIC WORKS,
WASHINGTON.

From March 1st.

Amount

27.3.76

Per

10.000 March 1st, No. 100

MARCH

No. 65 66

See page

Copy of certain Table in the M. and
L. of the Dept. of Public Works, the estimates
for 1876.

80742

Communicated to the
Govt.

24: March 76

To the Board of Directors