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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	897	Press
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897/1

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

Read the following papers :—

No. 405. From Colonel A. S. MOBERLY, R.E., District Engineer, Cuddapah, to Lieutenant-Colonel J. MULLINS, R.E., Chief Engineer for Irrigation, dated Camp at Gundloor, 2nd February 1876, No. 2,243.

I HAVE the honor to submit the accompanying Return of Tanks affecting the Madras Railway in the Sidhout range for the half-year ending 31st December 1875.

2. The lengths of weirs have been calculated from the Formula $D = C \sqrt[4]{M}$ except for those for which estimates have been made.

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

District.	Line of Railway.	Miles between what Tanks.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Catchment Basins and Surplus Weirs.		Additional length of Surplus Weir required.	Weir Crest.	Top of Stones.	Area of Tank.	Approximate Rate or Actual.	Special Remarks.	General Remarks.
								Total.	Existing.							
North-West Line.		123	a 14 & 15 Nookampally Tank.	9	6 940	2	c 85-15	...	72	28	45	...	...	...		The third part requires strengthening in earth-work; the revetment is in good order. A new weir of 77 feet will be constructed at the south end of east band; that at the west end requires repairs. Sections have been taken and the estimate has been forwarded for sanction. Work will be completed by the time the rains begin in 1876.
		124	10 & 17 Pullampet Tank.	3	6 912	2	1 92	...	96	None	31	...	...	...		a Surplus flows into the Pongair from whence its supply is received. b C = 500. c 85 feet for surface drainage and 15 feet for supply channel. Repairs to channel will be carried out at the same time as the tank band, as also the construction of a head sluice which is required. D = $\frac{4}{3} \sqrt{M^3} \times 500$. a C = 400. b 93 feet for surface of drainage, and 4 feet for supply channel which is led off from the Pongair. Channel does not require a head sluice. A weir will be placed between head and tank

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								Total.	Existing.							
Madras Railway.		125	a 1 & 2 Davanoodrum Tank.	20	6 3,794	2	351	...	213	d 68	44	...	...	...		to discharge surplus. D = $\frac{4}{3} \sqrt{M^3} \times 400$. a Discharges into Ootkar tank. b C = 400. c 113 feet of good weir and 200 feet of rough stone can hardly be called a weir. A new weir of 268 feet will be constructed of proper material. d Should be 268 feet new weir.
		126	a 1 & 2 Wothaloor Tank.	18½	6 4,718	2½	306	...	231	47	6	...	...	...		D = $\frac{4}{3} \sqrt{M^3} \times 400$. Ootkar tank. a Discharges into Ootkar tank. b C = 675. c East weir, 87 feet in length. West weir, 174 feet in length, in good order. D = $\frac{4}{3} \sqrt{M^3} \times 775$.
		128	a 1 & 2 Annthasamcoodrum Boochi rajoo Tank.	10½	6 2,915	2½	210	...	200	110	5	...	...	...		a Discharges into Wothaloor tank. b C = 500 (D = $\frac{4}{3} \sqrt{M^3} \times 500$). c West weir is 64 feet, and east weir is 38 feet in length—can be obtained by extending the west weir to the west over rocky ground; the other 60 by extending east weir eastwards where masonry work will be required. a Discharges into the Boochirajoo tank. b C = 500. c 125 feet for surface drainage and 15 feet for supply channel. d A rough stone weir over which water seldom passes. Water escapes round both end of the bund, but the soil is not good, and it is dangerous. Channel will be repaired at the same time as the tank bund. D = $\frac{4}{3} \sqrt{M^3} \times 500$.
Chennai Railway.		128	a 1 & 2 Annthasamcoodrum Boochi rajoo Tank.	10½	6 2,915	2½	210	...	200	110	5	...	...	...		Bund generally of fair section, but rather low. Revetment will be raised throughout, partly of new stone. A new weir will be built at the north end 268 feet in length. Sections have been taken and the estimate has been forwarded for sanction. Work will be complete before the next rains set in.
		129	a 1 & 2 Annthasamcoodrum Boochi rajoo Tank.	10½	6 2,915	2½	210	...	200	110	5	...	...	...		Bund generally high enough, but weak in section and will be strengthened. Revetment will be raised throughout with a portion of new stone. Weir at east end will be extended 21 feet by cutting into the hill. Sections have been taken and estimate has been forwarded for sanction. Work will be complete before the end of August 1876. Bund and revetment in fair order; bund requires raising, and gravel repairs to revetment. One sluice requires repairs. Sections have been taken and the estimate will be sent in shortly. Work will be complete by the end of August 1876.
Chennai Railway.		129	a 1 & 2 Annthasamcoodrum Boochi rajoo Tank.	10½	6 2,915	2½	210	...	200	110	5	...	...	...		Bund, except at the ends, is high and strong; towards the ends the bund will be raised and strengthened. The revetment will be rebuilt throughout. A new weir of 107 feet will be built at the east end. Sections are now being taken, and the estimate will be submitted shortly. Work will be complete before the end of September 1876.

892/3

Return of Tanks affecting the Line of Railway for the Half-year ending 31st December 1875, &c.—(Continued.)

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

District.	Line of Railway.	Miles.	Between what Tele- graph Posts.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Dis- charge, Cubic Feet per Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Canals, Lanes and Surplus Weirs.		Additional Length of Surplus Weir required.	Height of Top of Bund Above.		Area of Tank.	Approx- imate or Actual.	Special Remarks.	General Remarks.
									Total.	Effective.		FEET.	FEET.	ACRS.			
North-West Line.		130 131	a 6 & 7 b 6 & 4	Munoorickalam- mah Tank.	9	62,000	2	262	...	c 109	153	41	...	...	...	This tank bund and revetment are in fair order. The tank breached last year. Breach was closed, but not revetted. New weir of 150 feet will be built at the west end. Bund at west will be raised and strengthened. Estimate has been forwarded for sanction. Work will be complete before April 1876.	a Discharge from south weir crosses at 130-6 and 7, and from the west weir it crosses at 131-3 and 4. b C = 500. c West weir is 63 feet in length and south weir 47 feet. D = $\sqrt[3]{M^3} \times 500$.
		132 133	a 14 & 15 b 6 & 7	Hosavaram Tank.	81	1,150	2	129	...	c 125	4	4	...	...	...	This tank bund and revetment are in fair order, and require nothing to be done to them. The south weir will be lengthened 4 feet, which can easily be done at very little cost.	a Discharge from south weir crosses at 132-14 & 15, and from the north weir at 133-6 & 7. b C = 500. c South weir 80 feet north weir 45 feet. D = $\sqrt[3]{M^3} \times 500$.
		136	a 11 & 12	Pastoor Tank..	15	540	21	33	...	38	None	41	...	...	...	This tank bund and revetment are in good order, having been repaired in 1875-76. Weir is also in good order.	a Surplus passes into the Nandalore tank supply channel. b C = 400. D = $\sqrt[3]{M^3} \times 400$.
		137	a 7 & 8	Nagaredipally Tank (also Dandandum.)	14	607	3	c 61	...	Breached	61	441	...	...	...	This tank is breached. The bund and revetment are in very bad order. Over- seer will, as early as possible, prepare an estimate for raising and strengthening the bund, and for reconstructing the revet- ment.	a Surplus flows into Nan- dalore tank. b C = 450. c This will be new; there is no weir at present.

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District.	Line of Railway.	Miles.	Between what Tele- graph Posts.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Estimated Maximum Flood Dis- charge, Cubic Feet per Second.	Intended Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Canals, Lanes and Surplus Weirs.		Additional Length of Surplus Weir required.	Height of Top of Bund Above.		Area of Tank.	Approx- imate or Actual.	Special Remarks.	General Remarks.
									Total.	Effective.		FEET.	FEET.	ACRS.			
Cuddalore		140	a 12 & 13	Mantampally Chellamareddy Tank.	7	2,150	c 64	87	...	105	None	6	...	...	...	The tank bund and revetment are in good order, also the weir which was repaired in 1875-76. The bund is high and of strong section.	a Surplus flows into the Wontimitta tank. b C = 500. c Could discharge up to 5 feet with safety. D = $\sqrt[3]{M^3} \times 500$.
		141	a 3 & 4	Mantampally Kootammal Tank.	8	1,140	7	63	...	c 41	21	41	...	...	...	Tank bund and revetment are in very fair order. Nothing requires to be done to either. The weir will be extended to 63 feet at an early date.	a Surplus flows into the Wontimitta tank. b C = 500. c In addition to this 41 feet there is what may be called a by wash in con- tinuation of the weir. It measures about 45 feet. The masonry of the weir will be extended over this as early as may be convenient. D = $\sqrt[3]{M^3} \times 500$.

21st January 1876.

(Signed) A. S. MOBERLY, Col., R.E.,
District Engineer.

(Signed) J. SCHOURY,
Range Officer.

897/4

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

No. 7 W.

No. 405-A. *Note by the Chief Engineer for Irrigation.*

COMMUNICATED to Government for their information.

FORT ST. GEORGE,
15th March 1876.

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

No. 406. ORDER THEREON, 27th March 1876, No. 764.

IRRIGATION, No. 35.

ORDERED to be recorded.

(True Extract.)


Colonel,
Offg. Under Secretary to Govt.

To the District Engineer, Cuddapah.
" Chief Engineer for Irrigation.
" Consulting Engineer for Railways.
" Collector of Cuddapah.
" Revenue Department.

Exd. T. O'Connor.

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To

THE DISTRICT ENGINEER,
CUDDAPAH.
&c., &c., &c.

Dated March 27th.

Issued

Recd. 18 April

Encl.

G. O., 27th March 1876, No. 764.

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Nos. 405-406

On 11th

Return of Tanks affecting the Railway Line
in the Sidhout Range, Cuddapah District.—
Note by the Chief Engineer for Irrigation on
the — for the half-year ending 31st Decem-
ber 1875, recorded. No 877

Communicated to the — ?

21 April 1876

10 Fd. O. 27th March 1876, No. 764.