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 (2) Date of repair _____
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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue DEPARTMENT

G.O. No.	897	Press
B.P. No.		Mis.
Dated	21-4-1876	197

Not to be folded or roughly handled

8924

*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 $D = C \sqrt[3]{M}$, except for those for which estimates have been made.

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.	Mileage between two Tanks.	Names of Tanks.	Area of Cultivated Land, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intended Maximum Depth of Water, no. of Tanks of Surplus Weir.	Length of Surplus Weir required.	Length of Surplus Weir		Height of Top of Bund above Level of Water.	Area of Tank.	Capacity of Tank when full.	Special Remarks.	General Remarks.
								Total.	Excessive.					
North-West Line.	133	a 1 & 2	Noolampally Tank.	2	6,510	2	6,834-13	73	23	42	...	...	The third feet requires strengthening in earth-work; the revetment is in fair order. A new weir of 77 feet will be constructed in the south end of the bund 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.	a Staples drawn into the bund and revetment are in very bad order throughout; bund requires to be raised and strengthened, and revetment raised with the portion of new stone brought out. The weir at the west end will require to be rebuilt and extended. Sections are now being taken and the estimate will be taken in hand at an early date. The work is expected to be completed before next year's rain set in.
								26	None	23	...	...	a Staples drawn into the bund and revetment are in very bad order throughout; bund requires to be raised and strengthened, and revetment raised with the portion of new stone brought out. The weir at the west end will require to be rebuilt and extended. Sections are now being taken and the estimate will be taken in hand at an early date. The work is expected to be completed before next year's rain set in.	D = $\frac{1}{2} \sqrt{M^3} \times 500$. a C = 400. b C = 400. c 113 feet for 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. Should be 268 feet new weir.
North-West Line.	134	13 & 17	Pallampet Tank.	3	6,912	2	6,932	...	...	23	...	...	This tank bund and revetment are in good order and requires nothing to be done to either. Weir is in good order. Only a small part of the tank lies above the Railway although the weir does.	D = $\frac{1}{2} \sqrt{M^3} \times 500$. a C = 400. b C = 400. c 113 feet for 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. Should be 268 feet new weir.

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

District.	Line of Railway.	Mileage between two Tanks.	Names of Tanks.	Area of Cultivated Land, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intended Maximum Depth of Water, no. of Tanks of Surplus Weir.	Length of Surplus Weir required.	Length of Surplus Weir		Height of Top of Bund above Level of Water.	Area of Tank.	Capacity of Tank when full.	Special Remarks.	General Remarks.
								...	...					
Madras Railway.	135	a 1 & 2	Devanahastri Tank.	20	6,751	2	321	...	...	48	44	...	Band generally of fair section, but rather low. Revetment will be relaid 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.	a Discharge surplus. D = $\frac{1}{2} \sqrt{M^3} \times 400$. 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. Should be 268 feet new weir.
								...	...	47	6	...	Band generally high enough, but weak in section and will be strengthened. Revetment will be relaid 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.	a Discharge surplus. D = $\frac{1}{2} \sqrt{M^3} \times 400$. 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. Should be 268 feet new weir.
Madras Railway.	136	a 1 & 2	Ananthaswaram tank. Each rajoo Tank.	103	6,265	24	210	...	...	110	5	...	Band and revetment in fair order; bund requires raising, and gravel repairs to revetment. (The 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.)	a Discharge surplus. D = $\frac{1}{2} \sqrt{M^3} \times 400$. 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. Should be 268 feet new weir.
								...	...	83	6	...	Band, 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 197 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.	a Discharge surplus. D = $\frac{1}{2} \sqrt{M^3} \times 400$. 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. Should be 268 feet new weir.
Madras Railway.	137	a 1 & 2	Ananthaswaram tank. Each rajoo Tank.	71	6,265	3	125+15	...	...	57	...	...	Band, 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 197 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.	a Discharge surplus. D = $\frac{1}{2} \sqrt{M^3} \times 400$. 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. Should be 268 feet new weir.
								...	...	83	6	...	Band, 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 197 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.	a Discharge surplus. D = $\frac{1}{2} \sqrt{M^3} \times 400$. 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. Should be 268 feet new weir.

812/3

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.	Mileage between two Tanks.	Names of Tanks.	Area of Cultivated Land, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intended Maximum Depth of Water, no. of Tanks of Surplus Weir.	Length of Surplus Weir required.	Length of Surplus Weir		Height of Top of Bund above Level of Water.	Area of Tank.	Capacity of Tank when full.	Special Remarks.	General Remarks.
								Total.	Excessive.					
North-West Line.	133	a 1 & 2	Noolampally Tank.	2	6,510	2	6,834-13	73	23	42	...	...	The third feet requires strengthening in earth-work; the revetment is in fair order. A new weir of 77 feet will be constructed in the south end of the bund 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.	a Staples drawn into the bund and revetment are in very bad order throughout; bund requires to be raised and strengthened, and revetment raised with the portion of new stone brought out. The weir at the west end will require to be rebuilt and extended. Sections are now being taken and the estimate will be taken in hand at an early date. The work is expected to be completed before next year's rain set in.
								26	None	23	...	...	a Staples drawn into the bund and revetment are in very bad order throughout; bund requires to be raised and strengthened, and revetment raised with the portion of new stone brought out. The weir at the west end will require to be rebuilt and extended. Sections are now being taken and the estimate will be taken in hand at an early date. The work is expected to be completed before next year's rain set in.	D = $\frac{1}{2} \sqrt{M^3} \times 500$. a C = 400. b C = 400. c 113 feet for 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. Should be 268 feet new weir.
North-West Line.	134	13 & 17	Pallampet Tank.	3	6,912	2	6,932	...	...	23	...	...	This tank bund and revetment are in good order and requires nothing to be done to either. Weir is in good order. Only a small part of the tank lies above the Railway although the weir does.	D = $\frac{1}{2} \sqrt{M^3} \times 500$. a C = 400. b C = 400. c 113 feet for 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. Should be 268 feet new weir.

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

District.	Line of Railway.	Mileage between two Tanks.	Names of Tanks.	Area of Cultivated Land, Square Miles.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intended Maximum Depth of Water, no. of Tanks of Surplus Weir.	Length of Surplus Weir required.	Length of Surplus Weir		Height of Top of Bund above Level of Water.	Area of Tank.	Capacity of Tank when full.	Special Remarks.	General Remarks.
								213	468	44	...	...	...	...
Madras Railway.	129	a 1 & 2	Wotaiar Tank.	18	6,4718	21	303	...	...	47	...	...	Bund generally of fair section, but rather low. Revetment will be relaid 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.	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. Should be 268 feet new weir.
								...	...	...	...	...	...	...
Madras Railway.	129	a 1 & 2	Ananthaswaram tank.	10	6,2915	21	210	...	...	110	...	...	Bund generally high enough, but weak in section and will be strengthened. Revetment will be relaid 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 the estimate has been forwarded for sanction. Work will be complete before the end of August 1876.	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. Should be 268 feet new weir.
								...	...	...	...	...	...	...
Madras Railway.	129	a 1 & 2	Ananthaswaram tank.	7	6,2255	3	123-15	...	...	83	...	...	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 197 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.	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. Should be 268 feet new weir.
								...	...	...	...	...	...	...

812/3

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.

Station.	Line of Railway.	Name of Tank.	Area of Tank in Acres.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intermed. Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Canals, Lanes and Structures Weir.		Additional Length of Surplus Weir required.	Weir Crest.	Top of Bund Above.	Area of Tank when Full.	Special Remarks.	General Remarks.
							Total.	Effective.						
170	North-West Line.	6 & 7 Munrothickam.	9	62,500	2	232	...	2109	153	41	...	...	This tank bund and revetment are in fair order. The tank breached last year. Bund was closed, but not resealed. 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 131-6 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 = $\frac{1}{2} \sqrt{M^3} \times 500$.
131		8 & 4 mah Tank.	...	...	...	...	...	...	...	...	...	...		
122		11 & 15 Hecavaram	91	67,150	2	119	...	2125	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 = $\frac{1}{2} \sqrt{M^3} \times 500$.
133		6 & 7 Tank.	...	...	...	...	...	...	...	...	...	...		
133	North-West Line.	all & 11 Panboor Tank...	11	540	21	33	...	33	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 flows into the Kundabore tank supply channel. b C = 400. D = $\frac{1}{2} \sqrt{M^3} \times 400$.
127		4 & 8 Nareidampally Tank (lady Dasabundam)	14	607	2	61	...	Breached	61	111	...	...	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 revetment. Also for the construction of a new weir. It is hoped that the work will be complete before the rains set in in 1876.	a Surplus flows into Kundabore tank. b C = 450. c This will be new; there is no weir at present.

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

Station.	Line of Railway.	Name of Tank.	Area of Tank in Acres.	Estimated Maximum Flood Discharge, Cubic Feet per Second.	Intermed. Maximum Depth of Water on Crest of Surplus Weir.	Length of Surplus Weir required.	Length of Existing Canals, Lanes and Structures Weir.		Additional Length of Surplus Weir required.	Weir Crest.	Top of Bund Above.	Area of Tank when Full.	Special Remarks.	General Remarks.
							Total.	Effective.						
140	Cuddalore Railway.	12 & 13 Mantampally Cuddalore Tank.	7	52,150	6	61	57	...	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 Wootumitta tank. b C = 500. c Could discharge up to 5 feet with safety. D = $\frac{1}{2} \sqrt{M^3} \times 500$.
141		3 & 4 Mantampally Cuddalore Tank.	3	11,140	7	7	63	...	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 Wootumitta tank. b C = 500. c In addition to this 41 feet there is what may be called a by wash in continuation 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 = $\frac{1}{2} \sqrt{M^3} \times 500$.

21st January 1876.

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

(Signed) J. SCHOURY,
Range Officer.

89/11

*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. D. C. SCOTT, Major, R.E.,
*Deputy Chief Engineer for Irrigation,
for Chief Engineer for Irrigation.*

No. 406. ORDER THEREON, 27th March 1876, No. 761.

IRRIGATION, No. 35.

ORDERED to be recorded.

(True Extract.)

Colonel,
Offy. Under Secretary to Govt.

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

Per. T. O'Connor.

14 Copies

10 J. W. E. O'Donoghue, Ch. Secretary

Feb 27 March 25th.

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1899, 18 April

Encl.

G. O., 27th March 1876, No. 704.

PARCE.

Nos. 405-406

*Return of Tanks affecting the Railroad Line
in the Southwest Range, Cuddapah District.—
Note by the Chief Engineer for Irrigation on
the 1st for the half-year ending 31st Decem-
ber 1878, recorded.* No 874

No 877
Commenced to be of 2

Am 27. April 1944