M.R.O. 1—20,002—12-8-65.

(1) Number of Pages 24

(2) Date of repair 7-9-68

(3) Initials of the Referencer

MADRAS RECORD OFFICE

GOVERNMENT OF MADRAS

Revenue DEPARTMENT

G.O. No. 2024	~~Press~~
~~B.P. No.~~	Mis.

Dated 1-10-1875 ~~196~~ .

Not to be folded or roughly handled

Read the following papers :—

No. 387. From Major J. N. HUNTER, R.E., District Engineer of Salem, to Major J. O. HASTED, R.E., Officiating Chief Engineer for Irrigation, dated Salem, 27th July 1875, No. 35.

WITH reference to your printed memorandum, No. 1,040, dated 14th December 1874, I have the honor to forward return of tanks affecting lines of Railway for the half-year ended 30th June 1875, prepared with reference to G. O., No. 3,210, dated 13th November 1874.

SALEM DISTRICT.

No. III.—TARRAMBAM RANGE.

Return of Tanks affording Leave of Irrigation for the 1874 year ended 30th June 1875, prepared with reference to G. O. No. 3,210, dated 13th November 1874.

General.	Date of Report.	Entry in Water Supply Statistics. Volume.	Entry in Water Supply Statistics. Page.	Names of Tanks.	Area of Catchment in Square Miles.	Extent of Ayacut in Acres.	Number of Sluices.	Length of Waste Weir or Channel in Feet.	Length of Surplus Weir or Escape Channel in Feet.	Length of Bund in Feet. Total.	Length of Bund in Feet. Effective.	Additional Length of Bund in Feet.	Height of Bund above Bed. Weir Canals.	Height of Bund above Bed. Tank Sluices.	Area of Tank. Area when Full.	Area of Tank. Capacity when Full.	Special Remarks.	General Remarks.
1	2	3	4	5	6	7	8	9	10	11			12				13	14
													Feet.	Feet.	Acres.	C. yds.		
		123	92	Tarrambam Chetty-appadoor New Tank.	6	1,000	2	81	400	700			5	...	51	150,000	Government tank, bund and revetments in fair order. About half of the length of the front slope of the tank bund is revetted. The revetment requires raising in some places, for which an estimate is under preparation and will be submitted for sanction in July. This tank did not breach last year and has not been known to breach for ten or fifteen years back.	In column 6 the highest co-efficient 675 is used. In column 9 the length of 399 feet is natural ground and rock. On inspection a portion of the length was blocked up by a turf bank 1 foot high and about 1 foot wide.
Right Main.				Kodiyoor or Cothacholay Tank.	14	3,268	3	137	40	40	147	6	...	50	450,000	Mirah tank. This tank was breached considerably by the heavy rains of May 1874, owing to insufficient surplus waterway; all the necessary information regarding the requirements of the tank has been communicated to the Mittahdar through the Revenue authorities. As the revenue derived from the 23 acres cultivated under the tank is very small, (the Mittahdar (Nattamaguny Reddy) it appears intends abandoning the tank, as the cost of putting it in thorough order will exceed 1,000 Rupees. Nothing has been done towards its repair.	In column 6 the co-efficient used is 562·5.
Right Main.				Nayjeerowcotay Tank.	4	123	2	80	10	10	20	4	...	¼	2,000	Government tank, an insignificant pond. Repaired and put into thorough order by the ryots.	In column 6 the co-efficient used is 450.
Right Main.				Odwadenum Tank.	6¼	1,939	2½	138	60	60	88	5	...	10	90,000	Dasabandum tank. This tank has been rendered efficient by the Dasabandumdars. It breached in May 1874 owing to insufficient surplus waterway. The calingulah has since been extended with rough-stone, and the bund raised where necessary, though earth has been thrown up in a careless manner without reference to top width and slopes. This tank was escheated to Government on the 18th June 1875. The levelling and sectioning of the earthwork, &c., has since been ordered to be executed by Government Agency.	In column 6 the co-efficient used is 562·5.
...	...			Nimmapatty Puckeriany Tank.	6	1,957	2½	135	40	40	95	4½	...	45	430,000	Dasabandum tank escheated to Government in June 1874, owing to the Dasabandumdars neglecting the execution of repairs. This tank breached on the 5th May 1874. An estimate has been sanctioned for closing the breach and extending the calingulah 95 feet. The work is nearly completed at present, and will be quite complete by the termination of July.	In column 6 C = 562·5. The extended portion of the calingulah is to be built partly with stone in chunam and partly with dry stone.
...	Left effluent.			Chettyeppanoor Old Tank.	Old	1	675	2½	31	1 15 / 120	132	...	4	18	90,000	Government tank bund in fair order, revetment requires reconstruction in places, an estimate is under preparation for the same and will be submitted in July. This tank did not breach last May. It has not been known to breach for many years. The surplus waterway is adequate.	In column 6 C = 675. The tank has a 15 feet calingulah built of rough-stone amongst rocks on the west side. On the east side there is a natural escape of 120 feet over hard soil, cut up a little in the overfall, but not worth the construction of a masonry calingulah.
...	...			Veppamputt Tank.	8	2,200	2½	169	60	60	109	5	...	26	100,000	Mirah tank. Badly breached in May 1874, since the Mittahdar has closed the breaches and raised about one-third the length of the bund 2 feet above its former height. The stones in the calingulah of 60 feet has not yet been repacked; at the western end, in continuation of the above calingulah, 84 feet of the bund has been cut away to the level of the sill of the calingulah, apparently intended as an extension. The Mittahdar refuses to extend the calingulah to the length communicated to him by the Revenue authorities, or to remove the eastern extremity of the bund where the bed is on a high level to the level of the ground. As the tank is now full of water, it is probable that the raising of the bund will not be continued throughout until next year when the tank is dry.	In column 6 C = 562·5.

Return of Tanks affecting Lines of Railway for the half-year ended 30th June 1875.—(Continued.)

District.	Taluk.	Point at which Tanks cross Railway. Miles.	Point at which Tanks cross Railway. Telegraph Posts.	Names of Tanks.	Area of Tank when full.	Length of Bund.	Length of Surplus Weir.	Length of existing Sluices and Subsidiary Weirs. Total.	Effective.	Additional Length for Flood Discharge.	Height of Top of Bund above Low-water level of Sluices. Water Ordinary.	Height of Top of Bund above Low-water level of Sluices. Top of Bund.	Approximate or Actual. Area of Tank when full.	Approximate or Actual. Capacity in Cubic Yards.	Special Remarks.	General Remarks.
1	2	3	4	5	6	7	8	9		10	11		12		13	14
				Madura Main— (Concluded.)		FEET.	FEET.	FEET.	FEET.	FEET.	FEET.	FEET.	ACRES.	C. YDS.		
...	...	...	...	Vellamoory Tank ...	4	2607	6½	28	60	50		2½	1	4,500	Mittah tank, a pond. The bund should be raised 2½ feet or 3 feet throughout. The bund is not revetted, but is thickly covered with brushwood. It has no built calingulah, but the surplus escapes over natural hard ground for a length of 90 feet, which is quite ample: but a turf bank was visible in front of it on inspection which certainly endangers the bund of the tank. During May and September 1874, the water freely escaped over the bund which caused numerous deep gullies in the same, the thick growth of brushwood having saved it from complete destruction. The requirements of the tank were communicated to the Mittahdar. Nothing has been done to the bund save a little earthwork raised at about 1 Rupee.	In column 6 C = 450.
...	...	...	...	Shanmooghy Tank ...	1	456	2½	34	...	...	34	...	...	2½	5,000	Mittah tank, bund in very bad order: requires raising 3 feet throughout. The revetment also requires raising 1½ feet. No calingulah exists, while there are ample facilities for constructing one at either end of the bund. The bund breached at its western extremity where the bed of the tank is on a high level. This might have been left open. The Mittahdar, however, has closed it up by a bank of earth 1 yard high and 1 yard wide. He has executed about 10 Rupees earthwork to the bund, which is so small a quantity that the tank has not been improved in the least.	In column 6 C = 450.
Salem— South West Lines.				Kuttari Tank ...	7	721	2½	54	15 to 20	35	19	2½	...	22	90,000	Mittah tank, breached in May 1874, which has since been closed; bund revetted and in fair order. Requirements of tank have been communicated to the Mittahdar; portions of the bund have been raised 3, 4 and 4½ feet above the sill of the calingulah. Nothing has been done towards extension of calingulah. Tank is insufficient and therefore unsafe.	In column 6 C = 450.
				Mookanoor Valley.												
135	5			Mookanoor Tank ...	2	309	2½	38	...	...	28	...	...	10	6,000	Mittah tank, a very small tank bund, low and irregular; partly revetted, no calingulah, water generally escapes by breaching the ends of the bund. On inspection in June the breaches were temporarily patched up, and the low parts of the bund had a turf bank 1 foot wide and 1½ feet high raised in places, apparently to keep the water within the tank. The Mittahdar agreed to improve the tank by raising the bund and building a calingulah; nothing has yet been done by him.	In column 6 C = 450.
				Hanjavoor Convoy Basin.												
135	3			Codunghy Tank ...	7	1,647	2½	124	...	...	124	...	...	18	90,000	Mittah tank, some say breached ten years back, others say thirty. Breach is about 100 yards long, and was never closed. Tank abandoned.	In column 6 C = 450.
and 135	5			Natrampully Tank ...	2	721	2½	54	36	36	18	4½	...	26	155,000	Dasabandum tank, in fair order. Bund requires raising at the north end for a length of 100 yards to a height of 3 feet; the calingulah should be extended. The requirements of the tank have been communicated to the Dasabandumdar who promised to repair the tank, but has not yet done anything to it. This tank did not breach last year, and has not breached for many years past.	In column 6 C = 450.

Civil—1875.

Return of Tanks affecting Lines of Railway for the half-year ended 30th June 1875.—(Continued.)

Division.	Taluk or Pergunnah.	Nearest Railway Station. Miles.	Nearest Railway Station. Furlongs.	Names of Tanks.	Ryotwar Cultivation. Wet.	No. of Sluices.	Length of Bund. Feet.	Length of Surplus Weir. Feet.	Average Breadth of Bund. Feet.	Top.	Bottom.	Additional Length of Bund required. Feet.	Height of Top of Bund above Weir Crest. Feet.	Height of Top of Bund above Top of Sluice. Feet.	Area of Tank. Acres.	Capacity when full. C. yds.	Special Remarks.	General Remarks.
1	2	3		4	5	6	7	8	9			10	11		12		13	14
Salem—West Line.				Railway to Colony Basin (Continued).			Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Feet.	Acres.	C. yds.		
(Continued.)	Madras Ballast Quarry (Continued.)	...	...	Vellapolly Tank	3	858	24	71	50	30	41	2	...	13	90,000	Mittah tank, in very bad order; bund very low, irregular and weak in transverse section; unrevetted. Tank breached last year in May and September. Water is retained in the tank in June 1875 by a ring bund in front of the breaches. Requirements of the tank have been communicated to the Mittadar by the Revenue authorities. He has done nothing to it yet.	In column 6 C = 450. The existing surplus waterway is natural over rock. The tank invariably breaches every year.
		...	...	Sommasiokan pa r t y Tank	1	233	24	21	...	...	21	...	...	10	40,000	Mittah tank; bund low, requires raising throughout to a height of 2 feet. Water escapes at extremities; partly revetted. Did not breach last year. Construction of a calingulah very feasible at either extremity of the bund by removal of a portion of bank, and sinking a rough stone wall. Requirements of the tank communicated to owner. No improvements yet carried out.	In column 6 C = 450.
		...	...	Thereyalam Tank	0¼	1,699	24	166	240	200	...	44	...	52	2,50,000	Mittah tank, a good tank. Revetment in fair order. Bund requires raising throughout to make it 5 feet above escape level. The tank has no calingulah, but the water escapes at the western extremity, where a length of 300 or 300 feet is available for discharge. This space is sometimes blocked up by a low turf bank, which is objectionable. If a rough-stone wall was sunk to level of ground, it would answer very well as an escape. The tank did not breach in 1874. Its requirements have been communicated to the owner. No improvements have yet been carried out.	Do.
		...	...	Channagowdencoolay	...	...	...	...	...	...	...	...	...	...	...	Mittah, a small pond with a bund about 150 feet long; situated amidst the cultivation in rear of the Thereyalam tank.	
		...	...	Nethiocoolay ...	...	¼	141	2½	10	...	...	10	...	...	2	4,000	Mittah tank, a small pond, unprovided with escapes. Bund 250 yards long and 1½ yards high; weirs easily formed at either extremity; a simple rough-stone wall sunk to level of ground ample. Requirements communicated to owner. No improvements yet effected.	Do.
		...	...	Veeraparuputty Tank...	6	1,455	2½	112	...	...	112	...	...	12	55,000	Mittah tank, breached in 1874; bund low and irregular, weak in transverse section; unprovided with escape; but natural ground for 100 feet available at south-western extremity of bund for discharging surplus, which is constantly dammed up by a ring bund. The requirements of the tank were communicated to the Mittahdar, who has not yet thought proper to attend to them. The breach has simply been patched up.	
		...	...	Coorambacorevilcoolay	...	¼	228	2½	21	...	...	21	...	...	5	8,000	Mittah tank, a small pond. Bund about 200 yards long and 1½ yards high in its deepest part. It is unprovided with an escape which could easily be formed at either extremity of the bund by removing a portion of bank and sinking a rough-stone wall. Requirements communicated to owner, who has done nothing to it yet.	
		...	...	Conarycoopum Tank ...	3	936	2½	71	50	50	21	2	...	10	76,000	Mittah tank, breached in 1874, a very weak and irregular bund which should be raised 5 feet above escape level; unrevetted. Requirements of tank were communicated to owner, who has not yet done anything to the tank besides carelessly patching up the breach.	Do. Escape of 50 feet mentioned is over natural ground at the southern extremity of bund; extension easily provided by cutting away high ground.

Return of Tanks affecting Lines of Railway for the half-year ended 30th June 1875.—(Continued.)

Division	Line of Railway.	Passes under or over the line crossed. Miles.	Passes under or over the line crossed. Furlongs.	Name of Tank.	Number of sluices.	Length of sluices.	Distance from head of tank to centre of sluices.	Width of waste weir.	Length of waste weir.	Level of crest of waste weir above sill of sluices.	Additional height to which it is proposed to raise bund.	Height of top of bund above Water-Guage.	Height of top of bund above Sill of Sluices.	Approximate or Actual. Yards.	Approximate or Actual. Cubic Yards.	Special Remarks.	General Remarks.
1	2	3		4	5	6	7	8	9	10	11			12		13	14
				Hanamsagar Colony Tanks.—(Continued.)		Feet	Feet	Feet	Feet	Feet	Feet	Feet		Acres.	C. Yds.		
		...	...	Pallapuny Tank	1	650	72	84	...	...	24	...	...	7	70,000	Mittah tank, did not breach in 1874. Bund 900 yards long and in very bad order, overgrown with brushwood, requires raising 5 feet. Reverted to somewhat of its ancient work of bund. No escape; water said to overflow the bund yearly. Escape very easily formed at either extremity by removal of bund and sinking a rough-stone wall. Requirements of tank communicated to owner by Revenue authorities. Nothing at all has been done to it.	In column 6 C = 450.
		...	...	Chockkampatty ...	2	721	74	54	125	135	...	4½	...	10	70,000	Mittah tank; bund in fair order; revetment in bad order; requires raising in some places; bund rather low, should be raised throughout to the height of 5 feet above crest of escape. Requirements of tank communicated to owner who has not yet done anything to it.	In column 6 C = 450. There is space available on the north 75 feet long and on the south 60 feet for discharging surplus over hard gravelly soil, but a ring bund is built the whole way across to prevent the exit of water and thus endangers the tank bund.
		...	...	Pollasacy Tank ...	3½	1,035	84	78	{ 21 / 70 }	91	...	4	...	14	1,00,000	Mittah tank, did not breach in 1874. Revetment in fair order; requires raising in some places; bund rather low, should be raised throughout to the height of 5 feet above crest of escape. Requirements of tank communicated to owner who has not yet done anything to it.	In column 6 C = 450. Of the escape waterway 21 feet is a rough-stone weir at the southern extremity, and 70 feet is natural ground at the Northern extremity which is blocked up by a ring bund.
		...	...	Pethoor Tank ...	4	1,134	24	85	...	...	85	...	...	8	10,000	Mittah tank, constantly breaches. Bund 210 yards long, and greatest height 1½ yards. It has no calingulah. It is nothing more than a pond. Requirements communicated to owner, who refuses to repair the same and to provide it with adequate surplus weirs. He has simply patched up the breaches.	In column 6 C = 450. A calingulah could easily be made at the southern extremity by lowering ground and sinking a rough-stone wall.
		...	...	Wodaputty Tank ...	5	1,314	24	32	46	46	53	5	4	4	11,000	Mittah tank, breached in 1874. The bund was in bad order; it has since been raised about 2 feet (though the earth is thrown up very carelessly). There was no calingulah in 1874; one has since been built with rough stone 45 feet long at the southern end of the bund. A calingulah of the same description could easily be formed at the north end by the removal of the bund. The requirements of the tank were communicated to the owner, who has, as above pointed out, partly complied with its wants.	In column 6 C = 450.
				Poothyangote Valley.													
		153	16	Poothyangote Tank ...	1	150	24	34	84	84	...	5	...	7	25,000	Mittah tank, breached in 1874; unrevetted. The tank bund was ordered to be raised 5 feet above crest of escape; it formerly (1874) had no calingulah. Requirements of tank were communicated to Mittahdar, who has raised the bund with earth (very carelessly) to a height of 5 feet above crest level, and constructed a calingulah of rough-stone of the required length. The tank is not safe, because the tank above it has not yet been rendered efficient.	In column 6 C = 450.
		...	...	Moothanery Tank ...	1	360	24	28	...	...	28	...	...	5	14,000	Mittah tank, a small tank; unrevetted. No calingulah could easily be provided with an escape at either extremity (south-west) by the removal of the bund and sinking a rough-stone wall to the level of the ground. The requirements of the tank were communicated to the owner, who has done nothing yet besides patching up the breach. He refuses to improve it.	In column 6 C = 450.

(Continued.)

Madras Railway.—(Continued.)

Salem—South-West Line.

Return of Tanks affecting Lines of Railway for the half-year ended 30th June 1875, etc.—(Continued.)

Taluk.	Date of Taking.	Power of direct Irrigation exercised. Miles.	Power of direct Irrigation exercised. Chains.	Names of Tanks.	Number of Sluices.	Area of Catchment in Square Miles.	Number of Acres (Cultivated) Irrigated.	Number of Acres (Cultivated) Irrigated.	Number of Acres (Uncultivated) Irrigated.	Number of Acres (Uncultivated) Irrigated.	Length of Surplus Calingulah and Surplus Weirs. Bund.	Length of Surplus Calingulah and Surplus Weirs. Effective.	Width of Bund at Top. Additional Width required.	Height of Top of Bund above. Weir Crest.	Height of Top of Bund above. Top of Bank Naturals.	Area of Tank.	Capacity when Full.	Special Remarks.	General Remarks.
1	2	3		4	5	6	7		8		9		10	11		12		13	14
				Tanks below Pulney.			Feet.		Feet.		Feet.	Feet.	Feet.	Feet.	Feet.	Acres.	C. Yds.		
		126	4	Chudyanagaredoddtank	1	450	2½		34		...	...	34	...	...	8	30,000	Mittah tank, a small tank. Bund 600 yards long; unrevetted very weak in transverse section. Requirements of tank were communicated to the owner, who has done nothing towards improving it, which is likely to breach by the first fall of rain. He has simply patched up the breaches.	In column 6 C = 450. Calingulah could easily be made at the north-western extremity of any required length with a rough-stone wall and a small apron on removal of a portion of the bund.
		...	...	Agraharam Tank	6	1,314	2½		93	{ 60 / 40 }	1 / 100	...	34	...	...	119	1,050,000	Government tank, bund and revetment in good order. Tank did not breach in 1874, nor has it been known to breach for many years. It was repaired in 1872. Tank efficient and safe.	In column 6 C = 450. A calingulah of rough-stone 60 feet with apron 11 yards wide at north extremity is in good order. Cut channel on south side 40 feet wide through hard gravel soil.
		...	...	Vadugacuoiay	1½	339	2½		54	...	½ ...	...	44	...	...	4	9,000	Mittah tank, a small pond, breached in 1874. Bund 216 yards long, very low and irregular, very weak in section, only about 4 feet wide at top, water kept in by a turf bank on bund. Partly revetted, revetment all displaced and laying in the bund of the tank. No calingulah; one could easily be made by removal of	In column 6 C = 450.
		...	...	Maiscoolay	2	731	2½		54	...	...	...	54	...	...	10	70,000	bund at south-western side by sinking a rough stone wall. Requirements of tank were communicated to Mittahdar, who has executed about 5 Rupees earthwork, which is useless. Has done nothing to calingulah tank, inefficient and unsafe. Mittah tank, did not breach in 1874. Tank bund very low and irregular; unrevetted. Calingulah could easily be made at the southern extremity with a rough stone wall and small apron. Requirements of tank communicated to Mittahdar. A few Rupees earthwork has been since executed to the tank. No calingulah has been provided. The tank is inefficient and unsafe.	Do. There is a natural channel at the north and south ends which are 9 feet and 30 feet wide respectively, but these are dammed up by turf and earth banks.
		...	...	Veerachetty Tank	2½	628	2½		62	30	30	32	3	...		6	35,000	Mittah tank, did not breach in 1874: bund low, irregular in section, unrevetted. The whole bund requires raising 1½ or 2 feet. The requirements of the tank in detail were communicated to the Mittahdar, who has not yet done anything to it.	In column 6 C = 450. The escape mentioned in column 9 is a natural channel over hard ground, which is frequently blocked up by a turf bank.
		...	...	Achcomangalum Tank	3½	1,023	2½		78	39	39	39	3	...		30	225,000	Mittah tank, breached in 1874. The bund is in very bad order. It is revetted to same level as crest of weir, and is in bad order. Calingulah could easily be extended on southern side in continuation of the existing breached calingulah. The requirements of the tank were communicated in detail to the owner, who has not yet done anything to it, except retaining water in it by a ring bund in front of the breach in the calingulah. The tank is very inefficient and unsafe.	In column 6 C = 450.
		...	...	Cheluvaneri	4½	1,224	2½		92	56	56	36	4	...		12	45,000	Mittah tank, breached in 1874. The bund was in bad order, unrevetted, exposed a great deal to wash. Extension of calingulah very feasible. Requirements of tank were communicated to Mittahdar in detail who has executed earthwork, but in so careless a manner and with the silt of the bed at a slope of ½ to 1 that its effect will be next to useless. Nothing has been done to the calingulah. The tank is not efficient and is still unsafe.	In column 6 C = 450.

(Continued.)

Madras Railway.

South West Lines.

Return of Tanks affecting Lines of Railway for the half-year ended 30th June 1875, &c.—(Continued.)

District.	Line of Railway.	Point at which Distance expressed. Miles.	Point at which Distance expressed. Telegraph Posts.	Names of Tanks.	Area of Catchment Basin, Square Miles.	Extreme Maximum Water line. Circuit, in feet, round Tank.	Mean Depth of Water at Sluice when filled. Measured on Crest of Sluice.	Length of Sluice Weir required.	Length of Bund. Total.	Length of Bund. Effective.	Additional Length of Surplus Weir required.	Height of top of Bund above. Weir Crest.	Height of top of Bund above. Top of Dam Stones.	Area of Tank.	Capacity when full.	Special Remarks.	General Remarks.
1	2	3		4	5	6	7	8	9		10	11		12		13	14
				Palghat Valley—(Concluded.)			FEET.	FEET.	FEET.	FEET.	FEET.	FEET.	FEET.	ACRES.	C. YDS.		
				Annacovil Tank	6¼	1,566	2¼	118	100	100	18	4	...	30	150,000	Mitteh tank, did not breach in 1874. The bund requires raising. It is revetted; revetment in good order. Extension of escape feasible by removal of a portion of the bund, and building a wing wall. Requirements of tank communicated to owner in detail, who has done nothing to it yet.	In column 6 C = 450. The entry in column 9 is a natural escape over hard rocky ground which is dammed up by turf and small stone bank.
		...		Coorumbaccotay Tank	7	1,647	2½	124	90	28	34	6	...	7	50,000	Mitteh tank, breached in 1874. The tank bund was in bad order, as was the revetment. The calingulah is capable of extension eastwards. Requirements were communicated to owner in detail, who has raised the bund (though roughly) sufficiently and also the revetment. The calingulah has not yet been extended. The tank therefore is not yet safe.	In column 6 C = 450. Calingulah dammed up 1½ feet high by a turf bank.
		...	...	Reed Sahib's Tank ...	10	3,088	2½	157	93 / 65	153	...	5	...	69	400,000	Mitta tank, did not breach in 1874; breached in 1872. The breaches were very badly closed with silt from the tank bed unprotected with a revetment. The remainder of the bund of the tank is in good order. The revetment requires raising in places. The stones of the calingulah have been displaced. The requirements of the tank were communicated to the owner in detail, who has not yet attended to them.	In column 6 C = 450.
		...	...	Pauparcootay Tank ...	½	285	2½	21	15	15	6	4	...	2	5,000	Government tank, in fair order; did not breach last year. The extension of the calingulah together with the strengthening of the bund has been ordered to be executed on emergency. The work is in progress and will be completed in July. An estimate was submitted for sanction in June.	Do.
		...	...	Athoycor Tank ...	1½	659	2½	44	57	57	...	5	...	14	42,000	Government tank, did not breach for many years. In good order, efficient and safe.	Do.
		...	...	Annasagarum Tank ...	3½	1,036	2½	78	111	111	...	6	...	17	360,000	Do. Bund was raised in 1871-72.	Do.
				Malacovay Basin.													
		137	7	Malacovay Tank ...	3½	1,035	2½	76	150 / 144	1 / 1	30	48	4	...	15	36,000	Government tank, bund and revetment in indifferent order. Tank, however, has not breached for many years. An estimate has been submitted for its repair. The repairs are in progress on emergency, and will probably be completed in July.	In column 6 C = 450. Of the surplus waterway in column 9, 30 feet is a rough stone pavement, 44 feet is soft gravel. The extension of permanent calingulah is in progress.
		...	...	Mootliker Tank ...	½	142	2½	10½	18	18	...	4	...	15	40,000	Mitteh tank, did not breach in 1874. Existing bund pretty regular; it requires raising; revetment in good order; waterway sufficient. The Mirasdar has done some earthwork, but not sufficient to make the tank quite safe.	Do.
		...	...	Veragarycootay ...	¼	295	2½	21	21	21	...	2½	...	½	1,200	Mitteh tank, a small pond; bund only 98 yards long. It requires raising to make it safe; it is not revetted. Nothing done to it by owner.	Do.
		...	...	Conapet Tank ...	1	650	2½	34	21	...	54	4	...	14	36,000	Mitteh tank, did not breach in 1874; bund 400 yards long, low and irregular, requires raising; revetted; revetment requires raising. The Mirasdar has done nothing to the tank.	Do. The entry in column 9 refers to a surplus channel 21 feet wide at the southern extremity of the bund which is invariably blocked up by a turf bank.
		...	...	Yellavathu	2	721	4½	54	...	...	54	...	...	13	32,000	Mitteh tank, did not breach in 1874, but the bund is very low and irregular, and very deficient in section. The water generally overflows the bund; revetted. No repairs executed by owner, tank in a very unsafe and inefficient state.	In column 6 C = 450. If the ground is lowered at the southern end, it would answer for an escape.

(Continued.)

Madras Railway.

South-West Line.

Return of Tanks affecting Lines of Railway in the Salem District for the half-year ended 30th June 1875, &c.—(Continued.)

Division.	Line of Railway.	Point at which Station crosses		Names of Tanks.	Area of Catchment above Tank.	Maximum Area irrigated when full.	Date of Construction of Tank.	Length of Surplus Weir.	Length of Surplus Channel.	Length of Bund.		Height of top of Bund above		Approximate or Actual.		Special Remarks.	General Remarks.
		Miles.	Adjacent Points.							From.	Direction.	Natural Ground.	Sluice.	Area of Tank.	Capacity when full.		
1	2	3		4	5	6	7	8	9			10	11	12		13	14
								FEET.	FEET.	FEET.		FEET.	FEET.	ACRES.	C. YDS.		
				Mettoor Taluq.—(Concluded.)													
				Condroymanaikay	4	936	21	71	21	...		21	3	7	11,000	Mittah tank, breached in 1874, bund very low and irregular and thickly covered with brushwood; unrevetted. No calingulah, a surplus channel exists at the southern end, which is 21 feet wide, and is dammed up by a turf bank. The Mittahdar has simply patched up the breaches. He has done nothing else. The tank is very unsafe and inefficient.	In column 6 C = 450. Any length of calingulah is very feasible at a small cost, at the north-eastern end.
				Shevaroy Hills.													
		143	4 and 7	Shivathoor Tank	6	1,600	21	136	120	197	31	5½	3	34	116,000	Dasabandum tank, breached in December 1874, was escheared to Government on the 18th June 1875, because the Dasabandumdars neglected to carry out the extension to the calingulah as ordered by the Revenue authorities. This extension is now undertaken by the Department Public Works on emergency, and will be completed in August. An estimate is under preparation and will be submitted shortly for sanction. The breaches are closed, and the tank bund and revetment are in good order.	In column 6 C = 450.
		...	...	Pampencootay ...	½	269	2½	25	...	...	28	...	...	5	12,000	Mittah tank, breached in May 1874 which has not yet been closed. The bund is very low, irregular, and weak. Partly revetted, and in very bad order. Ample ground for making an escape at the western side by cutting away the bund which is 2 feet high. Nothing has been done to it by the owner.	Do.
		...	...	Shivathoor New Tank ...	1	450	2½	54	30	...	34	3	...	6	14,500	Government tank, did not breach. The bund requires raising; revetment in fair order, requires raising in places. Wants of tank have been undertaken on emergency and will be completed in August. Estimate under preparation and will be submitted in July.	Do. The entry in column 9 is a natural surplus channel 30 feet wide, sometimes blocked up by a turf bank.
		...	...	Karracootay Tank ...	2	721	2½	54	{ 36 / 36 }	72	18	3	...	7	16,000	Mittah tank, breached in 1874. Bund low, requires raising throughout; revetment in fair order; the breach has been closed. Nothing further has been done by the owner. The tank is unsafe and inefficient.	In column 6 C = 450. The entries in column 9 refer to a 36 feet surplus channel which is sometimes dammed up by a turf bank. The other 36 feet mentioned refers to another channel on the north which is on a high level.
		...	...	Pallathoorcootay Tank.	2½	828	2½	62	15	...	62	3	...	3	5,000	Mittah tank, bund low, irregular and weak in section. It is 150 yards long; unrevetted; breached in 1874 and since patched up. Nothing further has been done by the owner. The tank (really a pond) is unsafe and inefficient.	In column 6 C = 450. The entry in column 9 refers to a surplus escape channel invariably dammed up. The entry in column 11 refers to height above surplus escape channel.
		...	...	Reemcootay Tank ...	3	936	2½	71	73	...	71	2	...	1½	2,000	Mittah tank, breached in 1874; the bund is 120 yards long, low, irregular and weak in section; revetted, but revetment is in bad order; breach patched up. Other requirements of the tank not attended to by the Mittahdar.	Do. The entry in column 9 refers to low ground at the southern extremity of the bund, which is often blocked up by turf bank. The entry in column 11 refers to height above surplus escape over low ground.
		...	...	Vathanavady Old Tank	4	1,184	2½	85	{ 35 / 15 }	50	35	3	...	14	34,000	Mittah tank, breached in 1874; the bund is low, irregular and weak in section; revetted, revetment in bad order; breach patched up; nothing more has been done to it by the owner. Do.	In column 6 C = 450. The entry in column 9 of 35 feet refers to a rough-stone pavement; the 15 feet is a natural surplus escape over hard rocky ground.
		...	...	Vathanavady New Tank.	6	1,314	2½	93	{ 30 / 30 }	60	39	4	...	14	34,000		In column 6 C = 450. The entry in column 9 refers to two rough-stone pavements.

(Continued.)

Fort St. George, Madras Rail-Road Office, 2nd August 1875.

Return of Tanks of Public Lineage Parkday for the half-year ended 30th June 1875 etc.—(Concluded.)

Serial No.	Name of Tank.	Name of Stream.	Name of Village.	Taluk.	Length of Bund.	Area of Catchment basin.	Estimated Maximum flood discharge per second.	Estimated Depth of Water at Crest of Surplus Weir.	Length of Surplus Weir required.	Additional length of Surplus Weir required.	Nature of Existing Channel and Surplus Weir.	Ribbon.	Top of Sluice.	Bottom of Sluice.	Water Spread.	Capacity full.	Area of Tank.	Remarks.
					Feet.	Miles.	Cubic feet.	Feet.	Feet.	Feet.								
1	Nimmumputty Puckeriary Tank, a Government Tank.	Vellaur	Nimmumputty	Salem	1,200	1	1,600	2	120	60	Natural ground.	1	1	1	1	1	1	2
2	Gowndenari Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
3	Ranojeerowcootay, a Government Pond.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
4	Reddyoor or Cothavvootay Tank, a Mittah Tank.	Do.	Reddyoor	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
5	Thanthitope Tank, a Mittah Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
6	Papancootay, a Mittah Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
7	Appaireddycootay.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
8	Vepampett Tank, a Mittah Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
9	Chettyappanoor Tank, a Government Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
10	Chettyappanoor New Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
11	Ponnary Large Tank, a Mittah Tank.	Do.	Ponnary	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
12	Ponnary Small Tank, do.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
13	Lubbacootay, a Mittah Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
14	Commeanpet Tank, a Mittah Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
15	Cadiyanacoppum Tank, a Mittah Tank.	Do.	Cadiyanacoppum	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
16	Vellacootay Tank, a Mittah Tank.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
17	Shamecootay Tank, do.	Do.	Do.	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
18	Kuttari Tank, a Mittah Tank.	Do.	Kuttari	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2
19	Mulloor Tank, a Government Tank.	Do.	Mulloor	Do.	1,200	1	1,600	2	120	60	Do.	1	1	1	1	1	1	2

Salem.—(Concluded.)

South-West Line, Madras Railway.

Salem, 27th July 1875.

(Signed) J. N. HUNTER, Major, R.E.,
District Engineer, Salem.

No. 387-A. From Major J. N. HUNTER, R.E., District Engineer of Salem, to Major J. O. HASTED, R.E., Officiating Chief Engineer for Irrigation, dated Salem, 27th July 1875, No. 36.

1 Sketch.

With reference to G. O., No. 3,615, dated 22nd December 1874, I have the honor to report on the tanks commanding that portion of the South-West Line of the Madras Railway passing through the Tripatore Range.

2. For the convenience of reference the enclosed sketch (not drawn to scale) has been prepared to illustrate the various groups referred to in this report.

Vaniembady or Veppumpett Series.

(1.) *Nimmumputty Puckeriary Tank, a Government Tank.*—The breaches have been closed; the calingulah is being extended. This tank will be rendered quite safe and efficient by the end of this month.

(2.) *Gowndenari Tank.*—A Dasabandum tank resumed by Government only on the 18th June 1875. The bund has been strengthened and the calingulah made efficient and safe.

(3.) *Ranojeerowcootay, a Government Pond.*—Rendered safe and efficient.

(4.) *Reddyoor or Cothavvootay Tank, a Mittah Tank.*—Unrepaired; left breached.

(5.) *Thanthitope Tank, a Mittah Tank.*—Unrepaired; abandoned.

(6.) *Papancootay, a Mittah Tank.*—Did not breach; a small insignificant pond.

(7.) *Appaireddycootay.*—Did not breach; a small insignificant bund.

(8.) *Vepampett Tank, a Mittah Tank.*—Breaches closed; bund partly strengthened; surplus waterway still inadequate; tank inefficient and unsafe.

(9.) *Chettyappanoor Tank, a Government Tank.*—Bund in fair order; surplus water-way adequate; estimate is under preparation for the repair of revetment and improvement of escape.

(10.) *Chettyappanoor New Tank.*—Do. do. do.

Ponnaly Series.

(1.) *Ponnary Large Tank, a Mittah Tank.*—Safe and efficient.

(2.) *Do. Small Tank, do.*— Do. do.

(3.) *Lubbacootay, a Mittah Tank.*—Nothing done to it by owner; unsafe and inefficient.

(4.) *Commeanpet Tank, a Mittah Tank.*—Owner has strengthened the bund, but he has not extended the calingulah; tank unsafe and inefficient.

Mutthoor Series.

(1.) *Cadiyanacoppum Tank, a Mittah Tank.*—Breaches simply patched up; nothing else done; tank unsafe and inefficient.

(2.) *Vellacootay Tank, a Mittah Tank.*— Do. do. do.

(3.) *Shamecootay Tank, do.*— Do. do. do.

(4.) *Kuttari Tank, a Mittah Tank.*—Breach closed; bund raised a little but insufficiently; calingulah not extended; tank unsafe and inefficient.

(5.) *Mulloor Tank, a Government Tank.*—Has been rendered efficient and safe.

HANAMUN CALVOY SERIES.

(1.) *Natrampully, a Dasabundam Tank.*—Did not breach; bund and revetment in fair order. Dasabandundar promised to extend the calingulah; has not yet done so.

(2.) *Yellapully Tank, a Mittah Tank.*—Water retained in tank by a ring bund; nothing done by Mittahdar; tank unsafe and inefficient.

(3.) *Bommanaickenputty, a Mittah Tank.*—Nothing done to it by owner; tank unsafe and inefficient.

(4.) *Nochicootay Tank, a Mittah Tank.*—A small insignificant pond.

(5.) *Thevyalam Tank, a Mittah Tank.*—Not rendered efficient by owner; tank unsafe.

(6.) *Chinnagowndencootay Tank, a Mittah Tank.*—An insignificant pond.

(7.) *Veerapamputty Tank, a Mittah Tank.*—Nothing done to it by owner; unsafe and inefficient.

(8.) *Codanghy Tank, a Mittah Tank.*—Abandoned.

(9.) *Vataputty Tank, a Mittah Tank.*—Nothing done to it; tank unsafe and inefficient.

(10.) *Chocklamputty Tank, a Mittah Tank.*—A little earthwork has been executed; tank will not be safe so long as ring bunds are retained across the natural surplus escapes.

(11.) *Pollanary Tank, a Mittah Tank.*—Bund not strengthened; tank unsafe.

(12.) *Poothoor Tank, a Mittah Tank.*—Nothing done to it by owner; tank unsafe and inefficient.

(13.) *Wodamutty Tank, a Mittah Tank.*—Requirements of tank partially attended to; tank unsafe and inefficient.

(14.) *Coorumboorcavilcootay Tank, a Mittah Tank.*—A small insignificant pond.

(15.) *Conarycoopum Tank, a Mittah Tank.*—Nothing done to it by owner; tank unsafe and inefficient.

MOOKANOOR SERIES.

(1.) *Mookanoor Tank, a Mittah Tank.*—Nothing done to it by owner; tank unsafe and inefficient.

PACHAVOY SERIES.

(1.) *Agraharam Tank, a Government tank.*—Safe and efficient.

(2.) *Vadugancootay Tank, a Mittah Tank.*—Very little earthwork done by owner; tank unsafe and inefficient.

(3.) *Malacootay Tank, a Mittah Tank.*—Do. do. do.

(4.) *Veerachetty Tank, Mittah.*—Nothing done to it by owner; unsafe and inefficient.

(5.) *Achoomangalam Tank, do.*—Do. do. do.

(6.) *Chettiaroor Tank, Mittah.*—A little earthwork done; calingulah not extended; unsafe and inefficient.

(7.) *Annacoil Tank, Mittah.*—Nothing done to it by owner; unsafe and inefficient.

(8.) *Coorumbacootay Tank, Mittah Tank.*—Bund strengthened; calingulah not extended; unsafe and inefficient.

(9.) *Reed Sall's Tank, Mittah.*—Nothing done to it; unsafe and inefficient.

(10.) *Annacoyaram Tank, Government.*—Safe and efficient.

Proceedings of the Madras Government, Public Works Department,
23rd August 1875.

(11.) *Paupancootay Tank, Government, a small pond.*—Extension of calingulah and strengthening of bund in progress, and will be completed in July.

(12.) *Altnoor tank, Government.*—Safe and efficient.

(13.) *Coodyanagownden Tank, Mittah.*—Nothing done to it; unsafe and inefficient.

POOTHIANGOTE SERIES.

(1.) *Moothanary Tank, Mittah.*—Nothing done to it; unsafe and inefficient.

(2.) *Poothiangote Tank, Mittah.*—Bund repaired; calingulah built; safe and efficient.

MALACAUSY SERIES.

(1.) *Moothir Tank, Mittah.*—Bund requires further strengthening to make the tank safe.

(2.) *Varagarry Tank, Mittah.*—Bund requires further strengthening to make the tank safe.

(3.) *Conapet Tank, Mittah.*—Nothing done to it by owner; unsafe and inefficient.

(4.) *Yellavathu Tank, do.*— Do. do. do.

(5.) *Condroyencootay Tank, do.*—Do. do. do.

(6.) *Malacausy Tank, Government.*—Improvements in progress; will probably be completed in July.

SHIVATHOOR SERIES.

(1.) *Karracootay Tank, Mittah.*—No improvements carried out by owner; tank unsafe and inefficient.

(2.) *Pullathoor do., do.*—Do. do. do.

(3.) *Beemacootay do., do.*—Do. do. do.

(4.) *Vathanavady Old do., do.*—Do. do. do.

(5.) *Do. New do., do.*—Do. do. do.

(6.) *Poolepatty Tank, do., do.*—Do. do. do.

(7.) *Cannalaputty do., do.*—Do. do. do.

(8.) *Paupancootay do.*—Do. do. do.

(9.) *Shivathoor New Tank, Government, a small pond.*—It is being provided with an efficient escape and the bund is being strengthened.

(10.) *Shivathoor Tank, Dasabandun summed by Government on 19th June* 1875.—Improvements in progress on emergency.

3. Further details concerning the above series will be found in the half-yearly return of Railway tanks (prepared in accordance with your Circular Memorandum, No. 1,040, of 14th December 1874) submitted with this office No. of

4. A further report for the few tanks near Salem will be sent, but the Railway is in no danger from them.

5. I have written to the Collector to get the Mittah tanks that are unsafe and inefficient put into proper condition by the proprietors.

No. 934.

No. 387-A. *Note by the Chief Engineer for Irrigation.*

THE return of tanks affecting the Madras Railway in the Tripatore Range contains a great deal of information of the kind required, and considerable pains have been

District Engineer's Nos. 36 and 37, 27th July.

taken with its preparation. The District Engineer's letter No. 36 contains a summary which, with the sketch, will enable the general circumstances to be understood.

2. Numerous cases in which Mittah tanks have had nothing done to them since their requirements were ascertained and communicated to the owners will be found in the return. Some owners refuse and others neglect to repair bunds and extend escapes. The next step appears to be for the Collector to serve the Mittahdars with notice of their responsibility for future damage, and this return will probably afford him the information necessary. It contains a very intelligible and complete account of the several tanks, and those which breached in 1874 ought to be attended to forthwith, and the rest as fast as possible.

3. The District Engineer it is considered deserves credit for the way in which the instructions have been carried out, and the few Government tanks affecting the Railway in this part of the district appear to have been promptly put to rights.

OOTACAMUND, (Signed) JOHN MULLINS, Lieut.-Colonel, R.E.,
19*th August* 1875. *Chief Engineer for Irrigation.*

No. 388. ORDER THEREON, 23rd August 1875, No. 2,418.

IRRIGATION, No. 23-F.

As it appears that the greater number of the tanks in the Tripatore Range of the Salem District which affect the Railway are Mittah, the return will be printed and communicated to the Revenue Department, with a view to the necessary steps being taken for enforcing the obligations of the owners of those tanks which are in an unsafe state. These Proceedings will also be communicated to District Engineers generally.

(True Extract.)

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

To the Revenue Department.
" District Engineer, Salem.
To all other Superintending and District Engineers.
To the Executive Engineer, Wynaad.
" Consulting Engineer for Railways.

To A. R. C. Shenkar.
Space Copies.

No: 1575 - Dept
A 39 - 6.

Govt. of [1870] Madras.

PUBLIC WORKS.

THE REVENUE DEPARTMENT.

&c., &c., &c.

Dated 1 August 1870.

Read

Ext. Letter dated 23rd July 1870 from the Secretary to the Board of Revenue, No. 2024.

Ext. G.O. 2804 dated 18th July 1870, No. 2048.

Recd on 5th Augt 1870

Ans. 6th Augt 1870

Ext. Letter dated 1st August 1870 from the Chief Engineer for Irrigation, No. 2024.

Ext. Letter dated 1st August 1870 from the Secretary to the Board of Revenue, No. 2024.