

DESCRIPTIVE MEMOIRS
OF
IRRIGATION WORKS
IN THE
ADYAR MINOR BASIN
OF THE
MADRAS DRAINAGE BASIN.

CHINGLEPUT DISTRICT.

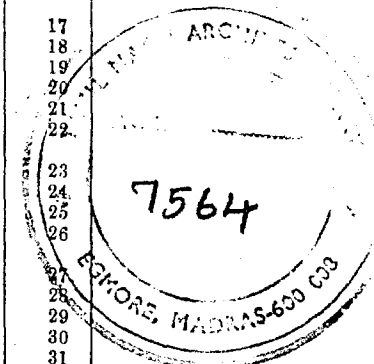
70. MADRAS DISTRICT, SAIDAPET,
CONJEEVEAR AND CHINGLEPUT TALUKS



IN THE ADYAR MINOR BASIN

in the Adyar Minor Basin, Chinglepu

Average cultivation and revenue during the five years or less referred to in column 13.					Proposed cultivation and revenue.						Remarks.
Average extent of cultivation.	Gross assessment on average cultivation including second crop, if any.	Deduct and remissions.	Actual net revenue realised.	Excess to which the particulars in columns 7 to 10 refer.	Proposed ultimate extent of cultivation.	Expected revenue.	Outlay proposed.	In the memoir.	In the book.	Number of no. isolated work (a)	
9	10	11	12	13	14	15	16	17	18	19	20
ACS. 1,487	RS. 8,894	RS. 25	RS. 8,869		ACS. 1,871	RS. 10,027	RS. 17,403	26	II	1	Not taken up —vide report.
particulars of this work are included with those of No. 1, Manimangalam tank.							1,320	"	"	1 A	
83	210	..	210		108	248	1,207	27	"	2	
88	262	..	262		119	308	1,666	"	III	3	
13	34	..	34		13	34	411	28	"	4	
28	56	..	56		72	115	546	"	"	5	
227	1,384	7	1,377		227	1,384	1,723	29	IV	6	
164	457	4	453		164	457	1,765	"	"	7	
62	203	..	203		82	228	993	30	"	8	
44	109	..	109		44	109	371	"	"	9	
18	61	9	52		20	74	365	31	"	10	
143	711	2	709		147	724	2,907	"	"	11	
20	43	..	43		20	43	442	32	"	12	
particulars of this work are included with those of No. 7, Alagar large tank.							..	"	"	13	
32	154	..	154		34	161	275	"	V	14	
16	50	..	50		16	50	543	33	"	15	
vide report.							..	"	"	16	
99	428	..	428		99	428	1,081	"	"	17	Not taken up —vide report.
34	97	..	97		36	103	395	34	"	18	
49	129	..	129		49	129	112	"	"	19	
58	181	2	179		58	181	180	"	"	20	
52	126	..	126		54	129	641	35	"	21	
248	944	45	899		250	947	1,498	"	VI	22	
private works were not investigated.							..	36	"	23	
456	2,206	..	2,206		485	2,292	6,268	"	VI	24	
a private work was not investigated.							..	37	"	25	
359	1,511	..	1,511		388	1,579	1,563	"	"	26	
35	78	..	78		35	78	349	"	"	27	
private works were not investigated.							..	38	"	28	
35	138	..	138		35	138	637	"	"	29	
11	47	..	47		11	47	407	"	"	30	
47	190	..	190		47	190	1,105	39	"	31	
private works were not investigated.							..	"	"	32	
private works were not investigated.							..	"	"	33	
private works were not investigated.							..	"	"	34	
private works were not investigated.							..	"	"	35	
private works were not investigated.							..	"	"	36	
private works were not investigated.							..	"	"	37	
private works were not investigated.							..	"	"	38	
private works were not investigated.							..	"	"	39	
private works were not investigated.							..	"	"	40	
private works were not investigated.							..	"	"	41	
private works were not investigated.							..	"	"	42	
private works were not investigated.							..	"	"	43	
80	469	..	469		80	469	2,308	40	"	44	
private works were not investigated.							..	"	"	45	
68	273	..	273		68	273	470	"	"	46	
private works were not investigated.							..	"	"	47	
private works were not investigated.							..	"	"	48	
private works were not investigated.							..	"	"	49	
private works were not investigated.							..	"	"	50	
private works were not investigated.							..	"	"	51	
private works were not investigated.							..	"	"	52	
private works were not investigated.							..	"	"	53	
private works were not investigated.							..	"	"	54	
6	26	..	26		6	26	174	"	"	55	



MAJORS OF IRRIGATION WORKS

Financial Details of the Irrigation Works

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Name of group.	Name of sub-group.	Number of works isolated work	Work (tank or channel).	Number and name of the village to which the work belongs.	Taluk.	Total irrigable ayaat in the tank.	Full assessment on ayaat.
1	2	3	4	5	6	7	8
Maimangalam tank.	Maimangalam tank.	56	Kunduperumbedu Reddi tangal.	No. 253, Kunduperumbedu.	Conjeeveram ..	acs. 24	rs. 106
		57	Do. Vannan tangal.	Do. ..	Do. ..	15	71
					Total of group.	4,510	20,019
Malaippattu tank.	Malaippattu tank.	1	Malaippatti tank ..	No. 225, Malaippattu.	Conjeeveram ..	220	575
		2	Vellarai tank ..	„ 218, Vellarai ..	Do. ..	235	711
		3	Ottankaranai tank ..	Ottankaranai (shro.) ..	Do. ..	These being	
		4	Do. tangal ..	Do. ..	Do. ..		
		5	Navalur large tank ..	No. 254, Navalur ..	Do. ..	207	715
					Total of group.	662	2,001
Pillapakkam tank.	Pillapakkam tank.	1	Pillapakkam tank ..	No. 225, Pillapakkam.	Conjeeveram ..	1,062	4,679
		2	Pondur Odda tangal ..	„ 333, Pondur ..	Do. ..	33	108
		3	Do. sitteri ..	Do. ..	Do. ..	105	366
		4	Do. Buder tank ..	Do. ..	Do. ..	136	467
		5	Do. large tank ..	Do. ..	Do. ..	308	1,136
		6	Araneri large tank ..	„ 334, Araneri ..	Do. ..	149	582
		7	Salayanur sitteri ..	Salayanur (zemin) ..	Do. ..	These being	
		8	Do. tank ..	Do. ..	Do. ..		
	Pondur Buder tank.	9	Sirumankadu tangal ..	No. 338, Sirumankadu.	Do. ..	26	98
		10	Araneri Naga tangal ..	„ 334, Araneri ..	Do. ..	36	92
		11	Irunkulam ..	„ 328, Irunkulam ..	Do. ..	59	155
		12	Mambakkam tank ..	Mambakkam (zemin) ..	Do. ..	These being	
		13	Do. sitteri ..	Do. ..	Do. ..		
		14	Tirumangalam tank ..	No. 335, Tirumangalam.	Do. ..	126	481
		15	Pondur Vuttu Kuttai tangal ..	„ 333, Pondur ..	Do. ..	6	14
		16	Kaohupattu tangal ..	„ 323, Striperumbudur.	Do. ..	7	28
					Total of group.	2,063	8,206
Kolattur tank.	Kolattur tank.	1	Kolattur tank ..	No. 262, Kolattur ..	Conjeeveram ..	464	2,253
		2	Navalur tangal ..	„ 239, Navalur ..	Do. ..	172	519
		3	Nallatanni tangal ..	„ 266, Venkadu ..	Do. ..	74	261
					Total of group.	710	3,033
Karunagaracheri tank.	Karunagaracheri tank.	1	Karunagaracheri tank ..	No. 261, Karunagaracheri.	Conjeeveram ..	81	258
		1 A	Do. Achukattu tangal.	Do. ..	Do. ..	The financial	
		2	Then tangal ..	Irumbedu (shrotriem) ..	Do. ..		
		3	Irumbedu tank ..	Do. ..	Do. ..	These being	
		4	Venkadu tank ..	No. 266, Venkadu ..	Do. ..	278	973
		5	Do. Ichan tangal ..	Do. ..	Do. ..	37	106
					Total of group.	396	1,337
Padappai tank.	Padappai tank.	1	Padappai tank ..	No. 230, Padappai ..	Conjeeveram ..	404	1,533
		2	Attanjaneri tank ..	„ 238, Attanjaneri ..	Do. ..	206	870
		3	Salamangalam large tank ..	„ 224, Salamangalam.	Do. ..	138	595
		4	Nochili tangal ..	„ 240, Vanjivancheri.	Do. ..	23	67
		5	Vanjivancheri large tank ..	Do. ..	Do. ..	68	197
					Total of group.	839	3,252
Arambakkam tank.	Arambakkam tank.	1	Arambakkam tank ..	No. 232, Arambakkam.	Conjeeveram ..	241	1,134
		2	Navalur tank ..	„ 239, Navalur ..	Do. ..	208	956
		3	Nommili tangal ..	Do. ..	Do. ..	Not taken	

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Pages 4 and 5.

No. 3, PONDUR SITTERI.

In the statement of financial details for figures given in columns 9 to 16, read the following:—105, 366, 9, 357, 1311 to 1315, 105, 370 and 400, respectively.

in the Adyar Minor Basin, Chingleput District—cont.

Average cultivation and revenue during the five years or faslis referred to in column 13.					Proposed cultivation and revenue.		Outlay proposed.	Reference to pages.		Number of work in group or of isolated work (as per column 3).	Remarks.
Average extent of cultivation.	Gross assessment on average cultivation including second crop, if any.	Deductions and remission.	Actual net revenue realised.	Faslis to which the particulars in columns 7 to 10 refer.	Proposed ultimate extent of cultivation.	Expected revenue.		In the memoir book.	In the book of plates.		
9	10	11	12	13	14	15	16	17	18	19	20
ACS.	RS.	RS.	RS.		ACS.	RS.	RS.				
24	106	..	106		24	106	336	41	II	56	
15	65	..	65		19	76	136	42	"	57	
4,101	19,642	94	19,548		4,681	21,153	49,597	..	..	..	
217	582	..	582		221	589	90	42	VII	1	
225	720	..	720		236	745	2,218	43	"	2	
private works were not investigated.					..	..	..	"	"	3	
208	864	2	862		249	923	2,413	"	"	4	
650	2,166	2	2,164		706	2,257	4,721	..	..	5	
1,069	5,174	20	5,154		1,080	5,228	4,735	44	VIII	1	
30	99	3	96		33	104	521	"	"	2	
99	347	6	341		122	391	464	46	"	3	
136	492	8	484		136	492	1,551	"	"	4	
265	1,088	26	1,062		320	1,208	3,105	46	"	5	
143	651	..	651		160	686	2,233	"	"	6	
private works were not investigated.					..	..	..	"	"	7	
26	99	..	99		26	99	337	47	"	8	
24	61	..	61		36	82	447	"	"	9	
54	144	2	142		62	160	389	"	"	10	
private works were not investigated.					..	..	..	48	"	11	
76	360	..	360		131	501	1,173	"	"	12	
6	22	..	22		6	22	305	"	"	13	
7	28	..	28		7	28	325	49	"	14	
1293 to 1297.					..	..	..	"	"	15	
1,925	8,565	65	8,500		2,119	9,001	15,585	..	..	16	
470	2,407	..	2,407		493	2,471	3,890	49	X	1	
171	490	..	490		172	494	582	50	"	2	
74	257	..	257		74	257	415	"	"	3	
715	3,154	..	3,154		739	3,222	4,887	..	..	..	
78	257	20	237		86	274	443	51	X	1	
particulars of this work are included with those of No. 1 tank—vide report.					..	..	..	"	"	1 A	
private works were not investigated.					..	..	..	"	"	2	
278	1,035	19	1,016		278	1,035	1,565	52	"	3	
35	103	..	103		37	106	157	"	"	4	
391	1,395	39	1,356		401	1,415	2,165	..	..	5	
387	1,572	..	1,572		404	1,617	2,984	53	XI	1	
206	837	1	886		210	901	2,108	"	"	2	
128	569	..	569		158	635	729	54	"	3	
23	67	..	57		38	95	120	"	"	4	
64	174	..	174		71	189	801	"	"	5	
808	3,259	1	3,258		881	3,437	6,742	..	..	..	
228	1,091	1	1,090		241	1,136	2,341	55	XII	1	
200	923	1	922		208	972	2,203	"	"	2	
up—vide report.					..	..	..	56	"	3	

Statement of the Financial Details of the Irrigation Works

Name of group.	Name of sub-group.	Number of work in group or of isolated work.	Name of work (tank or channel).	Number and name of the village to which the work belongs.	Taluk.	Total irrigable ayaout under the tank.	Full assessment on ayaout.
1	2	3	4	5	6	7	8
Arumbakkam tank—cont.	Arumbakkam tank—cont.	4	Moseri tank	No. 239, Navalur ..	Conjeeveram ..	91	306
		5	Serappanancheri large tank ..	„ 241, Serappanancheri.	Do. ..	174	581
		6	Panapakkam tank	„ 238, Panapakkam.	Do. ..	157	355
		7	Velleritangal do.	„ 243, Velleritangal.	Do. ..	109	269
		8	Foratteri tangal	„ 241, Serappanancheri.	Do. ..	11	32
		9	Pudu tangal	„ 243, Velleritangal.	Do. ..	14	34
					Total of group.	1,005	3,667
Orattur tank.	Orattur tank.	1	Orattur tank	No. 237, Orattur ..	Conjeeveram ..	363	1,388
		1-A	Thamarakurai tangal ..	„ 274, Siruvanjur ..	Do. ..	13	58
		2	Nattarasampattu Sitteri ..	„ 281, Nattarasampattu.	Do. ..	157	460
		3	Rettapallam tank	Do. ..	Do. ..	40	131
		4	Kanjivakkam tank	„ 271, Kanjivakkam.	Do. ..	134	757
		5	Punthottathu yeri	„ 269, Umayaparanacheri.	Do. ..	120	463
		6	Nattapallam yeri	Do. ..	Do. ..	The financial	
		7	Umayaparanacheri large tank ..	Do. ..	Do. ..	182	599
		8	Putteri	„ 272, Vattambakkam.	Do. ..	The financial	
		9	Vattambakkam large tank ..	Do. ..	Do. ..	60	289
		10	Pulicheri	Do. ..	Do. ..	55	214
		11	Katteri	Do. ..	Do. ..	36	160
					Total of group.	1,210	4,514
Kilakkalani tank.	Kilakkalani tank.	1	Kilakkalani tank	No. 277, Kilakkalani..	Conjeeveram ..	182	389
		2	Kattupakkam tank	„ 280, Kattupakkam.	Do. ..	86	215
		3	Sitteri	Do. ..	Do. ..	The financial	
		4	Vadamelpakkam tank	„ 276, Vadamelpakkam.	Do. ..	107	232
		5	Siruvanjur Katteri	„ 274, Siruvanjur ..	Do. ..	20	49
		6	Settamangalam tangal ..	„ 266, Settamangalam.	Chingleput ..	18	65
		7	Do. tank	Do. ..	Do. ..	61	164
		8	Erivakkam tank	„ 278, Erivakkam ..	Conjeeveram ..	55	120
		9	Buderi	„ 274, Siruvanjur ..	Do. ..	203	689
		10	Siruvanjur large tank ..	Do. ..	Do. ..	195	835
					Total of group.	917	2,758
Kavanur tank.	Kavanur tank.	1	Kavanur tank	No. 275, Kavanur ..	Conjeeveram ..	294	957
		2	Konadi tank	„ 309, Konadi ..	Chingleput ..	30	127
		3	Do. tangal	Do. ..	Do. ..	10	19
		4	Buderi	„ 312, Kattankolattur.	Do. ..	73	266
		5	Kattankolattur large tank ..	Do. ..	Do. ..	183	686
		6	Maruderi	Do. ..	Do. ..	25	88
		7	Korakan tangal *	Do. ..	Do. ..	The financial	
		8	Do. tank	Do. ..	Do. ..	26	64
					Total of group.	641	2,207
Adanur tank.	Adanur tank.	1	Adanur tank	No. 223, Adanur ..	Conjeeveram ..	520	1,739
		2	Guduvanjeri tank	„ 314, Guduvanjeri.	Chingleput ..	138	367
		3	Do. tangal	Do. ..	Do. ..	12	30
		4	Vallanjeri tangal †	„ 313, Vallanjeri ..	Do. ..	13	34
		5	Do. tank	Do. ..	Do. ..	136	334
		6	Potteri tank	„ 316, Potteri ..	Do. ..	177	635

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Page 6.

(Issued on 1st February 1917.)

In the statement of financial details, against 11, works of Orattur tank group, in column 6, for "Conjeeveram" read "Saidapet."

(6)

Pages 6 and 7.

In the statement of Financial details of the irrigation works against No. 5 Siruvanjur Katteri of Kilakkalani tank group enter the following in the remark column No. 20.

"Has joint irrigation with No. 9 Buderi and No. 10 Siruvanjur large tank."

in the Adyar Minor Basin, Chingleput District—cont.

Average cultivation and revenue during the five years or faslis referred to in column 13.					Proposed cultivation and revenue.		Reference to pages.				Remarks.	
Average extent of cultivation.	Gross assessment on average cultivation including second crop, if any.	Deductions and remissions.	Actual net revenue realized.	Faslis to which the particulars in columns 7 to 10 refer.	Proposed ultimate extent of cultivation.	Expected revenue.	Outlay proposed.	In the memoir book.	In the book of plates.	Number of work in group or of isolated work (as per column 3).		
9	10	11	12	13	14	15	16	17	18	19	20	
ACS.	RS.	RS.	RS.		ACS.	RS.	RS.					
61	235	1	234	1293 to 1297.	92	313	310	56	XII	4		
170	550	3	547		185	595	3,109	"	"	5		
154	334	2	332		182	408	596	57	"	6		
10	250	2	248		131	308	654	"	"	7		
11	27	..	27		12	48	121	"	"	8		
14	34	..	34		14	34	135	58	"	9		
940	3,444	10	3,434		1,065	3,814	9,499	..	..	..		
339	1,336	19	1,317	1293 to 1297.	377	1,478	4,218	58	XIII	1		
13	53	..	53		13	53	124	59	"	1-A		
166	455	..	455		159	467	1,204	"	"	2		
42	135	..	135		42	135	232	"	"	3		
179	741	..	741		184	760	1,423	60	"	4		
117	456	..	456		120	466	677	"	"	5		
particulars of this work are included with those of No. 7, Umayaparanascheri large tank.								217	61	"	6	
173	544	..	544		194	602	1,365	"	"	7		
particulars of this work are included with those of No. 5, Punthottathu yeri.								759	"	"	8	
55	300	..	300		60	320	1,595	62	"	9		
54	187	..	187		55	192	551	"	"	10		
35	150	..	150		36	152	889	"	"	11		
1,163	4,357	19	4,338		1,240	4,625	13,254	..	..	..		
181	385	..	385		182	387	1,560	63	XIV	1		
83	204	..	204		86	212	1,012	"	"	2		
particulars of this work are included with those of No. 2, Kattupakkam tank.								200	64	"	3	
94	186	..	186		106	211	1,200	"	"	4		
22	61	..	61	1293 to 1297.	22	61	766	65	"	5		
18	60	..	60		18	60	136	"	"	6		
58	200	..	200		59	204	871	66	"	7		
55	97	..	97		55	97	514	"	"	8		
203	717	3	714		203	717	1,001	"	"	9		
195	801	2	799		195	801	1,417	67	"	10		
909	2,711	5	2,706	..	926	2,750	8,677	..	..	..		
268	989	42	947	1293 to 1297.	295	1,061	905	67	XV	1		
27	109	..	109		30	119	387	"	"	2		
10	19	..	19		10	19	193	68	"	3		
73	298	..	298		73	298	817	"	"	4		
168	620	..	620		183	672	2,693	"	"	5		
25	88	..	88		25	88	209	69	"	6		
particulars of this work are included with those of No. 8, Korkan tangal tank.								..	"	"	7	
23	62	..	62		25	68	271	"	"	8		
594	2,185	42	2,143	..	641	2,325	5,475	..	..	..		
434	1,517	37	1,510	1293 to 1297.	526	1,787	4,791	70	XVI	1		
144	393	..	393		145	395	1,680	"	"	2		
12	25	..	25		12	25	68	71	"	3		
13	35	1	34		13	35	..	"	"	4		
156	345	..	345		136	345	2,201	"	"	5		
178	762	1	761		178	762	2,660	72	"	6		

* Not taken up
—vide report.

† Not taken up
—vide report.

Statement of the Financial Details of the Irrigation Works

Name of group.	Name of sub-group.	Number of work in group or of isolated work.	Name of work (tank or channel.)	Number and name of the village to which the work belongs.	Taluk.	Total irrigable ayeut under the tank.	Full assessment on ayacut.
1	2	3	4	5	6	7	8
Adanur tank— <i>cont.</i>	Adanur tank— <i>cont.</i>	7	Karai yeri	No. 305, Ninnaparai ..	Chingleput ..	ACS. 111	RS. 271
		8	Sitteri	Do. ..	Do. ..	21	70
		9	Ninnaparai tank ..	Do. ..	Do. ..	203	634
		10	Potteri tangal ..	„ 316, Potteri ..	Do. ..	41	150
		11	Madambakkam tangal ..	„ 236, Madambakkam ..	Conjeeveram ..	52	175
		12	Do. tank ..	Do. ..	Do. ..	172	686
		13	Tailapuram tangal ..	„ 315, Tailapuram ..	Chingleput ..	9	19
		14	Do. tank ..	Do. ..	Do. ..	68	135
					Total of group.	1,673	5,279
Nilaman- galam tank.	Nilaman- galam tank.	1	Nilamangalam tank ..	Nilamangalam (Shro.) ..	Conjeeveram ..	This being a	
		2	Kuttanur tank ..	No. 235, Kuttanur ..	Do. ..	66	213
					Total of group.	66	213
Korakantangal tank.	Korakantangal tank.	1	Korakantangal tank ..	No. 234, Korakantangal ..	Conjeeveram ..	32	80
		2	Do. Kulam tangal.	Do. ..	Do. ..	14	35
					Total of group.	46	115
Mannivakkam tank.	Mannivakkam tank.	1	Mannivakkam tank ..	No. 310, Mannivakkam ..	Chingleput ..	199	941
		2	Vettakaram tangal ..	Do. ..	Do. ..	20	86
		3	Mannivakkam sitteri ..	Do. ..	Do. ..	The financial	
		4	Kilampakkam tank ..	„ 306, Kilampakkam ..	Do. ..	134	607
		5	Urappakkam tangal ..	„ 307, Urappakkam ..	Do. ..	20	66
		6	Do. sitteri ..	Do. ..	Do. ..	The financial	
		7	Do. tank ..	Do. ..	Do. ..	253	691
		8	Karanai Puducheri tank ..	„ 241/242, Karanai Puducheri ..	Do. ..	50	160
		9	Ayyanjeri tangal ..	„ 308, Ayyanjeri ..	Do. ..	55	189
		10	Do. tank ..	Do. ..	Do. ..	Not taken	
		11	Karanai Puducheri tangal ..	„ 241/242, Karanai Puducheri ..	Do. ..	26	54
		12	Nandivaram Hissa tank ..	„ 240, Nandivaram ..	Do. ..	839	2,455
		13	Perumpattunellur tank ..	„ 214, Perumpattunellur ..	Do. ..	145	290
		14	Do. tangal ..	„ 214, Perumpattunellur ..	Do. ..	30	62
		15	Kannivakkam tank ..	„ 256, Kannivakkam ..	Do. ..	143	316
		16	Kayarampedu tangal ..	„ 202, Kayarampedu ..	Do. ..	14	68
		17	Do. sitteri ..	Do. ..	Do. ..	Not taken	
		18	Do. tank ..	Do. ..	Do. ..	453	2,140
		19	Nandivaram tangal ..	„ 240, Nandivaram ..	Do. ..	23	81
		20	Kandigai tangal ..	Do. ..	Do. ..	13	45
					Total of group.	2,417	8,131
Mudichur Sikkrian Yeri.	Mudichur Sikkrian Yeri.	1	Mudichur Sikkrian yeri ..	No. 256, Mudichur ..	Saidapet ..	79	227
		2	Rungapuram tank ..	Do. ..	Do. ..	13	38
		3	Perunkalattur sitteri ..	„ 257, Perunkalattur ..	Do. ..	The financial	
		4	Do. tank ..	Do. ..	Do. ..	373	1,304
		5	Mudichur tank ..	„ 256, Mudichur ..	Do. ..	200	880
		6	Vendalur tangal ..	„ 311, Vendalur ..	Chingleput ..	22	78
		7	Do. tank ..	Do. ..	Do. ..	135	580
		8	Do. Otteri ..	Do. ..	Do. ..	24	85
					Total of group.	846	3,192
Varadarajapuram tank.	Varadarajapuram tank.	1	Varadarajapuram tank ..	No. 222, Varadarajapuram ..	Conjeeveram ..	131	396
		2	Sanan tangal ..	„ 256, Mudichur ..	Saidapet ..	12	61
					Total of group.	143	457

in the Adyar Minor Basin, Chingleput District—cont.

Average cultivation and revenue during the five years of faalis referred to in column 13.					Proposed cultivation and revenue.		Reference to pages.			Number of work in group or of isolated work (as per column 3).	Remarks.
Average extent of cultivation.	Gross assessment on average cultivation including second crop, if any.	Deductions and remissions.	Actual net revenue realised.	Faalis to which the particulars in columns 7 to 10 refer.	Proposed ultimate extent of cultivation.	Expected revenue.	Outlay proposed.	In the memoir book.	In the book of plates.		
9	10	11	12	13	14	15	16	17	18	19	20
ACS.	RS.	RS.	RS.		ACS.	RS.	RS.				
113	278	..	278		113	278	486	72	XVI	7	
21	73	..	73		21	73	220	73	"	8	
204	657	..	657		194	657	814	"	"	9	
46	166	..	166		45	166	181	74	"	10	
52	189	..	189		52	189	312	"	"	11	
163	623	6	617		172	663	1,537	"	"	12	
9	19	..	19		9	19	170	75	"	13	
65	125	..	125		68	130	246	"	"	14	
1,589	5,237	45	5,192		1,684	5,524	15,366	..	..		
private work was not investigated.											
56	220	..	220		56	220	715	76	XVI	1	
56	220	..	220		53	220	715	..	..	2	
32	90	..	90		32	90	200	76	XVI	1	
5	13	..	13		14	34	124	77	"	2	
37	103	..	103		46	124	324	..	..		
200	952	1	951		201	958	3,012	77	XVII	1	
18	92	..	92		21	103	293	78	"	2	
particulars of this work are included with those of No. 1.								77	"	3	
Mannivakkam tank.											
132	593	..	593		135	602	1,600	78	"	4	
20	62	..	62		20	62	323	"	"	5	
particulars of this work are included with those of No. 7.								534	79	6	
Urappakkam tank.											
221	592	..	592		254	674	1,170	..	..	7	
47	97	..	97		50	103	243	80	"	8	
51	159	1	158		63	189	340	"	"	9	
up-side report.								..	"	10	
26	65	..	65		26	65	150	81	"	11	
827	2,625	5	2,620		843	2,628	4,127	"	"	12	
146	299	1	298		146	299	1,895	82	"	13	
30	64	..	64		30	64	297	"	"	14	
142	292	..	292		142	292	1,127	83	"	15	
14	58	..	58		14	58	210	"	"	16	
up-side report.								..	"	17	
449	2,109	..	2,109		452	2,121	841	84	"	18	
23	84	22	62		23	84	143	"	"	19	
13	45	29	16		13	45	..	"	"	20	
2,359	8,188	59	8,129		2,433	8,347	16,305	..	..		
33	103	18	85		79	218	754	85	XIX	1	
15	54	..	54		15	54	263	"	"	2	
particulars of this work are included with those of No. 4.								2,144	86	3	
Perunkalattur tank.											
368	1,149	31	1,118		373	1,189	1,633	..	"	4	
190	796	11	785		202	839	2,811	87	"	5	
22	74	..	74		22	74	280	"	"	6	
138	455	..	455		139	458	775	"	"	7	
24	69	..	69		24	69	538	88	"	8	
790	2,700	60	2,640		854	2,901	9,248	..	..		
94	281	..	281		130	377	1,324	88	XIX	1	
10	48	1	47		12	60	163	89	"	2	
104	329	1	328		142	437	1,487	..	..		

Page 8.

No. 8, KARANAI PUDUCHERI TANK.

For the figures given in columns 9, 10, 11, 12, 13, 14 and 15 read the following:—40, 106, 18, 88, 1,313 to 1317, 50 and 100.

* Proposed outlay is included in that of No. 1 tank.

† Not taken up—side report.

Statement of the Financial Details of the Irrigation Works

Name of group.	Name of sub-group.	Number of work in group or of isolated work.	Name of work (tank or channel).	Number and name of the village to which the work belongs.	Taluk.	Total irrigable ayacut under the tank.	Fall assessment on ayacut.
1	2	3	4	5	6	7	8
Tambaram pudu tangal.	Tambaram pudu tangal.	1	Tambaram Pudur tangal ..	No. 260, Tambaram ..	Saidapet ..	ACS. 100	RS. 301
		2	Do. Yetti tangal ..	Do. ..	Do. ..	16	66
		3	Do. Vannan yeri ..	Do. ..	Do. ..	38	164
					Total of group.	154	531
Tirunirmalai tank.	Tirunirmalai tank.	1	Tirunirmalai tank and sitteri ..	No. 245, Tirunirmalai.	Saidapet ..	447	1,615
		2	Pammal tangal ..	" 247, Pammal ..	Do. ..	43	This being a
		3	Viraraghavan yeri ..	" 245, Tirunirmalai.	Do. ..	45	130
		4	Kadapperi ..	" 259, Kadapperi ..	Do. ..	87	140
		5	Hissa Putteri ..	Do. ..	Do. ..	87	318
					Total of group.	622	2,203
Somangalam tank.	Somangalam tank.	1	Somangalam tank ..	No. 258, Somangalam.	Conjeeveram ..	488	2,296
		2	Sakkili tangal ..	" 263, Amarambedu.	Do. ..	44	143
		3	Nallur tank ..	" 265, Nallur ..	Do. ..	142	551
					Total of group.	674	2,990
Somangalam sitteri.	Somangalam sitteri.	1	Somangalam sitteri ..	No. 258, Somangalam.	Conjeeveram ..	The financial No. 1, Somanga- 252	
		2	Melattur tank ..	Do. ..	Do. ..	61	252
					Total of group.	61	252
Naduvirappattu sitteri.	Naduvirappattu sitteri.	1	Naduvirappattu sitteri ..	No. 260, Naduvirappattu.	Conjeeveram ..	175	504
		2	Nadu tangal ..	Do. ..	Do. ..	45	166
		3	Naduvirappattu tank ..	Do. ..	Do. ..	111	513
					Total of group.	331	1,183
Erumaiyur tank.	Erumaiyur tank.	1	Erumaiyur tank ..	No. 255, Erumaiyur ..	Saidapet ..	299	815
		2	Erumaiyur Tumman tangal ..	Do. ..	Do. ..	19	65
					Total of group.	318	880
Palantandalam pudu yeri.	Palantandalam pudu yeri.	1	Palantandalam pudu yeri ..	No. 253, Palantandalam.	Saidapet ..	25	96
		2	Vannan kuttai ..	Do. ..	Do. ..	22	88
					Total of group.	47	184
Puntandalam Atiyani.	Puntandalam Atiyani.	1	Puntandalam Atiyani ..	No. 252, Puntandalam.	Saidapet ..	101	298
		2	Naduvirappattu tangal ..	" 260, Naduvirappattu.	Conjeeveram ..	10	25
		3	Puntandalam sitteri ..	" 259, Puntandalam.	Saidapet ..	54	262
					Total of group.	165	585
Polichallur Melandai tangal.	Polichallur Melandai tangal.	1	Polichallur Melandai tangal ..	No. 210, Polichallur ..	Saidapet ..	10	32
		2	Perari tangal ..	Do. ..	Do. ..	21	69
		3	Velarkani Serar tangal ..	Do. ..	Do. ..	The financial	
		4	Otteneri ..	" 209, Anakapattur.	Do. ..	118	392
					Total of group.	149	493
Mylapore tank.	Mylapore tank.	1	Mylapore tank ..	No. 177, Mambalam ..	Saidapet ..	813	3,610
		2	Mambalam tank ..	Do. (zemin) ..	Do. ..	This being a	
					Total of group.	813	3,610
Taramani Hissa tank.	Taramani Hissa tank.	1	Taramani Hissa tank ..	No. 220, Taramani ..	Saidapet ..	313	893
		2	Pallippattu tank ..	" 182, Pallippattu ..	Do. ..	123	405
		3	Kottur tank ..	" 180, Kottur ..	Do. ..	143	474
					Total of group.	579	1,772

in the Adyar Minor Basin, Chingleput District—cont.

Average cultivation and revenue during the five years of faslis referred to in column 13.					Proposed cultivation and revenue.			Reference to pages.		Number of work in group or of isolated work (as per column 3).	Remarks.
Average extent of cultivation.	Gross assessment on average cultivation including second crop, if any.	Deductions and remissions.	Actual net revenue realized.	Faslis to which the particulars in columns 7 to 10 refer.	Proposed ultimate extent of cultivation.	Expected revenue.	Outlay proposed.	In the memoir book.	In the book of plates.		
9	10	11	12	13	14	15	16	17	18	19	20
ACS.	RS.	RS.	RS.		ACS.	RS.	RS.				
117	332	15	317		119	340	1,460	89	XX	1	
16	63	..	63		17	62	330	90	"	2	
38	163	8	155		38	163	370	..	"	3	
171	553	23	530		174	565	2,160	..	..		
407	1,415	77	1,338		448	1,545	2,234	90	XXI	1	
private work was not investigated.										2	
39	142	1	141		44	157	470	91	"	3	
38	99	..	99		48	132	352	"	"	4	
80	310	13	297		87	835	590	"	"	6	
564	1,966	91	1,875		627	2,169	4,046	..	..		
478	2,602	2	2,600		487	2,638	5,137	92	XXII	1	
44	128	..	128		44	128	457	"	"	2	
127	474	1	473		142	521	2,522	93	"	3	
649	3,204	3	3,201		673	3,287	3,116	..	..		
particulars of this work are included with those of lam tank of Somangalam tank group.							1,451	93	XXII	1	
62	270	1	269		62	270	952	94	"	2	
62	270	1	269		62	270	2,403	..	..		
153	435	7	428		180	508	897	94	XXIII	1	
39	144	11	133		45	162	3,654	"	"	2	
106	486	4	482		112	504	..	"	"	3	
298	1,055	22	1,043		337	1,174	4,651	..	..		
284	836	111	725		298	908	2,256	95	XXIII	1	
21	76	..	76		21	76	150	"	"	2	
305	912	111	801		319	982	2,406	..	..		
29	117	..	117		29	117	325	96	XXIV	1	
22	95	..	95		22	95	360	"	"	2	
51	212	..	212		51	212	655	..	..		
100	339	..	339		101	340	830	96	XXIV	1	
10	27	..	27		10	27	107	97	"	2	
64	216	..	216		64	216	358	"	"	3	
164	582	..	582		165	583	1,295	..	..		
16	54	1	53		16	54	146	97	XXV	1	
21	37	..	37		14	37	68	98	"	2	
particulars of this work are included with those of Polichallur Melandai tangal.										3	
130	392	11	381		130	392	335	"	"	4	
167	483	12	471		160	483	549	..	..		
813	3,610	..	3,610		813	3,610	5,829	99	XXVI	1	
private work was not investigated.								"	"	2	
813	3,610	..	3,610		813	3,610	5,829	..	..		
290	772	..	772		813	829	1,054	100	XXVII	1	
123	824	..	824		123	824	1,300	"	"	2	
131	329	..	329		142	365	1,318	"	"	3	
544	1,425	..	1,425		578	1,518	3,672	..	..		

* Not taken up
—vide report.

(5)

Pages 10 and 11.

No. 3, NALLUR TANK.

In the statement of financial details against No. 3, Nallur tank.
For figures given in columns 7 to 15. Read 141, 550, 140, 642, 30,
612, 1293 to 1297, 189 and 783 from columns 7 to 15, respectively.

DESCRIPTIVE MEMOIRS OF IRRIGATION WORKS

Statement of the Financial Details of the Irrigation Works

Name of group.	Name of sub-group.	Number of work in group or of isolated work.	Name of work (tank or channel.)	Number and name of the village to which the work belongs.	Taluk.	Total irrigable ayacut under the tank.	Full assessment on ayacut.
1	2	3	4	5	6	7	8
Kodumbakkam Hissa tank.	Kodumbakkam Hissa tank.	1	Kodumbakkam Hissa tank ..	No. 176, Kodumbakkam.	Saidapet ..	ACS: 1,016	RS. 2,760
		2	Nesappakkam tank ..	No. 168, Nesappakkam.	Do. ..	73	207
					Total of group.	1,089	2,967
Porur Hissa tank.	Porur Hissa tank.	1	Porur Hissa tank ..	No. 161, Porur ..	Saidapet ..	800	2,756
		2	Muppattu Vattu tangal ..	,, 142, Poonamallee	Do. ..	22	90
					Total of group.	822	2,846
Nandambakkam tank.	Nandambakkam tank.	1	Nandambakkam tank ..	No. 187, Nandambakkam (Mount).	Saidapet ..	71	289
		2	Nandambakkam tangal* ..	,, 188, St. Thomas' Mount.	Do. ..	33	97
					Total of group.	104	386
Isolated works.		I	Settipattu tangal ..	No. 227, Settipattu ..	Conjeeveram ..	37	106
		II	Ammanambakkam large tank ..	..	Do. ..	23	58
		III	Tandakalani tangal ..	No. 216, Karisangal ..	Chingleput ..	11	47
		IV	Vumara tangal ..	,, 310, Mannivakkam ..	Saidapet ..	171	702
		V	Tambaram tank ..	,, 260, Tambaram ..	Do. ..	200	672
		VI	Irumbalur tank ..	,, 262, Irumbalur ..	Do. ..	157	415
		VII	Pirkankaranai tank ..	,, 261, Pirkankaranai ..	Do. ..	84	225
		VIII	Ninayeri ..	,, 245, Tirunirmalai ..	Do. ..	189	548
		IX	Pulikkoradu Jadamaneri ..	,, 258, Pulikkoradu ..	Conjeeveram ..	389	1,567
		X	Amarambedu tank ..	,, 263, Amarambedu ..	Saidapet ..	56	244
		XI	Puntandalam large tank ..	,, 252, Puntandalam ..	Do. ..	47	167
		XII	Nandambakkam tank ..	,, 251, Nandambakkam ..	Do. ..	151	478
		XIII	Minambakkam tank ..	,, 213, Minambakkam ..	Do. ..	33	102
		XIV	Sennel tangal ..	,, 210, Polichallur ..	Do. ..	The financial	
		XV	Nallarkulam tangal ..	Do. ..	Do. ..	26	95
		XVI	Anakaputtur Kalmadugu tangal ..	,, 209, Anakaputtur ..	Do. ..	The financial	
		XVII	Taramani tangal ..	,, 220, Taramani ..	Do. ..	Taramani	
		XVIII	Ramapuram Palan tangal ..	,, 167, Ramapuram ..	Do. ..		
		XIX	Do. Pudu tangal ..	Do. ..	Do. ..		
			Total of isolated works.		1,790	6,052	
Grand Total ..						25,852	95,315

Abstracted from a statement

Abstracted from a statement prepared and signed by Mr. J. M. Bell, Executive Engineer, No. II Party.

in the Adyar Minor Basin, Chingleput District—cont.

Average cultivation and revenue during the five years of faslis referred to in column 13.					Proposed cultivation and revenue.			Reference to pages.		Number of work in group or of isolated work (as per column 8).	Remarks.
Average extent of cultivation.	Gross assessment on average cultivation including second crop, if any.	Deductions and remissions.	Actual net revenue realised.	Faslis to which the particulars in columns 7 to 10 refer.	Proposed ultimate extent of cultivation.	Expected revenue.	Outlay proposed.	In the memoir book.	In the book of plates.		
9	10	11	12	13	14	15	16	17	18	19	20
ACS. 1,008	RS. 2,456	RS. 58	RS. 2,398		ACS. 1,028	RS. 2,545	RS. 1,197	101	XXVIII	1	
72	196	..	196		74	205	330	"	"	2	
1,080	2,652	58	2,594		1,102	2,750	1,527	..	..	..	
766	2,287	37	2,250		778	2,328	3,705	102	XXIX	1	
23	98	..	98		23	98	240	"	"	2	
789	2,385	37	2,348		801	2,426	3,945	..	..	..	
71	117	..	117		74	129	87	102	XXIX	1	
33	82	..	82		33	82	..	103	"	2	• Not taken up —side report.
104	199	..	199		107	211	87	..	..		
35	103	..	103		37	106	640	103	II	I	
private work was not investigated.					23	50	253	104	XI	II	
17	35	..	35		11	59	190	"	..	III	
10	56	..	56		175	631	1,599	"	..	IV	
169	614	7	607		202	628	3,046	105	XX	V	
194	605	..	605		157	396	1,090	"	..	VI	
156	393	..	393		84	225	205	"	XXI	VII	
81	216	15	201		191	553	384	106	..	VIII	
155	457	26	431		392	1,808	4,135	"	XXII	IX	
390	1,796	..	1,796		56	235	1,274	107	XXIV	X	
56	235	..	235		47	168	227	"	..	XI	
47	168	..	168		152	467	652	"	XXV	XII	
144	447	..	447		38	115	222	108	"	XIII	
38	115	1	114		28	99	489	"	XXVII	XIV	
particulars of this work are included with those of No. XIV, Sennel tangal.					173	494	3	491	186	545	XV
28	99	3	96		44	118	295	"	..	XVI	
particulars of this work are included with those of No. 1, Hissa tank of the Taramani Hissa tank group.					1,736	5,947	56	5,891	1,823	6,203	XVII
173	494	3	491		24,637	93,120	856	92,264	26,406	97,995	XVIII
43	114	1	113						2,21,204		XIX
1,736	5,947	56	5,891						..	..	
24,637	93,120	856	92,264						..	..	

Tank Restoration Scheme, and countersigned by Mr. J. Lee Warner, Collector, Chingleput.

DESCRIPTIVE MEMOIRS OF IRRIGATION WORKS

Statement of the Hydraulic Details of Tanks

Number in group.	Name.	Number.		Co-efficient.	Catchment basin.		Maximum discharge.			Length of surplus escapes.				
		In list of works in charge of the P.W.D.	In system.		C. =	Free. Square miles.	Combined. Square miles.	From combined catchment area. Cubic feet per sec.	From supply channel. Cubic feet per sec.	Total discharge to be provided for. Cubic feet per sec.	Weirs.		Bye-washes.	
											Existing.	Existing plus proposed.	Existing.	Existing plus proposed.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
MANIMANGALAM														
1	Manimangalam tank	..	..	500 & 100	7.44	27.63	3,828	..	3,828	162	312	..	..	
1-A	Melakalani tangal	..	..	500	0.035	0.035	47	..	47	12	14	..	..	
2	Sirumattur sitteri	..	..	500	0.3	0.3	224	..	224	..	..	..	61½	
3	Do. large tank	..	..	500 & 100	0.92	1.23	628	..	528	..	86½	..	..	
4	Salamangalam reddy tangal	..	..	500	0.15	0.15	141	..	141	..	..	..	60½	
5	Do. komman do.	..	..	500	0.16	0.16	147	..	147	..	..	..	63½	
6	Maganiyam sitteri	..	..	500 & 100	0.97	2.06	704	..	704	43	43	..	32	
7	Alagur large tank	..	..	500 & 100	0.67	1.09	477	..	477	..	79½	..	..	
8	Nariyambakkam tank	..	..	500 & 100	0.31	0.42	257	..	257	..	42½	..	..	
9	Kavalkalani kalanjeri tangal.	..	..	500 & 100	0.07	0.11	103	..	103	..	..	..	44½	
10	Sudal kuttai	..	..	500	0.04	0.04	58	..	58	..	..	..	39	
11	Maganiyam large tank	..	..	500 & 100	0.72	0.81	415	..	415	..	68	..	..	
12	Alagur tangal	..	..	500	0.09	0.09	100	..	100	..	..	..	43½	
13	Paracheri tangal	..	..	..	..	..	..	..	..	..	..	..	..	
14	Kunduperumbedu komman tangal.	..	..	500 & 100	0.09	0.2	148	..	148	..	..	..	64	
15	Nallamperumbedu tank	..	..	500	0.11	0.11	115	..	115	..	..	..	49½	
16	Perinjempakkam madateri	..	..	..	..	..	..	..	..	..	..	..	..	
17	Kulankatcheri large tank.	..	..	500 & 100	0.35	0.67	336	..	336	25½	25½	..	45½	
18	Do. tangal	..	..	500	0.05	0.05	68	..	68	..	24½	..	24½	
19	Kavalkalani pudu tangal.	..	..	500	0.05	0.05	68	..	68	..	..	..	18½	
20	Do. tank	..	..	500 & 100	0.1	0.22	158	..	158	..	50	..	67½	
21	Karanai tangal tank	..	..	500	0.12	0.12	122	..	122	..	28½	..	52½	
22	Perinjempakkam tank	..	..	500 & 100	0.62	0.83	406	..	406	..	..	..	95	
23	Vaippur sitti-ri	..	..	..	..	..	..	..	..	..	..	..	..	
24	Eraiyur large tank	..	..	..	..	..	..	..	..	..	..	..	..	
25	Vaippur do.	..	..	..	..	..	..	..	..	..	..	..	..	
26	Kunduperumbedu tank	..	..	500 & 100	2.86	13.13	2,316	..	2,316	57	57	..	740	
27	Eraiyur thevaleri	..	..	..	..	..	..	..	..	..	..	..	..	
28	Mattur tank	..	..	500 & 100	1.05	1.20	536	..	536	60	60	..	40	
29	Do. satteri	..	..	500	0.15	0.15	141	..	141	..	20	..	60½	
30	Jamunampattu large tank.	..	..	..	..	..	..	..	..	..	..	..	..	
31	Vallakottai maveri	..	..	500 & 100	0.24	0.39	239	..	239	..	..	..	56	
32	Buderi	..	..	500	0.15	0.15	141	..	141	..	..	..	33	
33	Bokkanna tangal	..	..	500	0.25	0.25	198	..	198	..	..	..	46½	
34	Mettupalaiyam sitteri	..	..	..	..	..	..	..	..	..	..	..	..	
35	Vallakottai alleri	..	..	..	..	..	..	..	..	..	..	..	..	
36	Do. sundaleri	..	..	..	..	..	..	..	..	..	..	..	..	
37	Vallam sitteri	..	..	..	..	..	..	..	..	..	..	..	..	
38	Karanatattu tank	..	..	..	..	..	..	..	..	..	..	..	..	
39	Periyar tangal tank	..	..	..	..	..	..	..	..	..	..	..	..	
40	Vallam tank	..	..	..	..	..	..	..	..	..	..	..	..	
41	Balanallur tumpa tangal..	..	..	..	..	..	..	..	..	..	..	..	..	
42	Do. large tank	..	..	..	..	..	..	..	..	..	..	..	..	
43	Papukana tangal	..	..	500	0.57	0.57	344	..	344	..	129	..	..	
44	Valatacheri tank	..	..	..	..	..	..	..	..	..	..	..	..	
45	Tattatur tank	..	..	..	..	..	..	..	..	..	..	..	..	
46	Oddai tangal	..	..	..	..	..	..	..	..	..	..	..	..	
47	Sirukalattur tank	..	..	500 & 100	0.44	0.81	383	..	383	..	..	..	164	
48	Vadakai vannan tangal	..	..	..	..	..	..	..	..	..	..	..	..	
49	Pettunayakkan tangal	..	..	..	..	..	..	..	..	..	..	..	..	
50	Oddan tangal	..	..	..	..	..	..	..	..	..	..	..	..	
51	Kannan tangal large tank.	..	..	..	..	..	..	..	..	..	..	..	..	
52	Nallatanni tangal	..	..	..	..	..	..	..	..	..	..	..	..	
53	Maun do.	..	..	..	..	..	..	..	..	..	..	..	..	
54	Kannan do	..	..	..	..	..	..	..	..	..	..	..	..	
55	Kundaperumbedu raja tangal.	..	..	500	0.03	0.03	48	..	48	..	..	21	21	
56	Do. reddy tangal.	..	..	500 & 100	0.04	0.14	113	..	113	..	..	..	49	
57	Do. vannan tangal.	..	..	500	0.1	0.1	108	..	108	..	..	..	46½	

* One-fourth of No. 40,

N.B.—The numbers due to columns 3 and 4 will be filled in

(2)

Issued on 30th September 1924.

Pages 14 and 15.

No. 34, METTUPALAIYAM SITTERI.

In the statement of hydraulic details against the name of work *delete* the figures in columns 14 and 22 and *insert* the following in columns 12, 22 and 23 :—
“ 18, 42.50 and 41.50 ”.

PAGE 14.

In column 12 of the statement of the hydraulic details for figure “ 312 ” read “ 345½ ”.

N.B.—Plate should be corrected accordingly.

(2)

Page 15.

In the statement of hydraulic details against No. 12, Alagur Tangal.

For “ nil ” in column 23 substitute “ 43.00 ”.

(3)

Pages 14 & 15.

No. 28, MATTUR TANK.

In the statement of hydraulic details against No. 28, Mattur tank omit the figures in columns 11, 12, 14, 22, 23 and 27 and *insert* “ 63, 90, 40.00 and 35.00 ” in columns “ 11, 12, 22 and 23 ”, respectively.

in the Adyar Minor Basin.

Standard data to be maintained.															Bench mark to which levels refer.
Approximate capacity of tank at F.T.L.	Total annual storage required.	Levels with reference to bench mark.				Level of top of revetment with reference to F.T.L. ± Feet.	Levels with reference to bench mark.								
		Full tank level.	Maximum water level.	Level of top of bund.			Sill of sluice No. 1.	Sill of sluice No. 2.	Sill of sluice No. 3.	Sill of sluice No. 4.	Crest of escape No. 1.	Crest of escape No. 2.	Crest of escape No. 3.		
				At centre.	At flanks.										
														Mill. cubic feet.	
16	17	18	19	20	21	22	23	24	25	26	27	28	29		
TANK GROUP.															
225-39	338-08	42-00	44-00	50-00	48-50	+ 4	25-74	24-08	25-83	32-76	42-00	42-00	42-00		
					47-00		29-32	29-03	31-07	37-00	42-00				
3-5	7-0	38-45	39-45	43-95	43-95	..	38-30								
4-39	8-78	44-75	46-00	49-00	49-00	..	27-96	31-58	34-07	..	38-45	..	..		
15-18	30-37	43-50	45-00	49-50	48-00	..	36-36	39-00	..	..	44-75	..	..		
0-61	1-22	46-00	47-00	50-00	Tapered.	..	32-04	37-00	..	..	43-50	..	..		
1-66	5-03	47-50	48-50	51-50	Do.	..	42-00	..	..	..	46-00	..	..		
25-57	51-15	44-25	46-00	50-50	49-00	+ 2-75	42-50	..	..	..	47-50	..	..		
7-47	22-42	45-50	47-00	51-50	Tapered.	..	36-48	29-45	38-75	..	44-25	44-25	..		
4-29	8-58	47-00	48-50	51-50	Do.	..	34-88	39-50	..	..	45-50	..	..		
0-33	1-34	48-00	48-00	52-00	Do.	..	40-43	44-09	42-50	..	47-00	..	..		
					Do.	..	44-00	..	..	..	48-00	..	..		
0-428	1-71	49-25	50-00	53-00	Do.	..	44-75	..	..	..	49-25	..	..		
18-54	27-82	45-00	46-50	51-00	Do.	..	35-15	38-62	36-50	..	45-00	..	..		
0-228	1-82	46-00	47-00	50-00	Do.	..	40-50	..	..	..	46-00	..	..		
vide report, page 32.															
0-61	1-83	46-50	47-50	50-50	Tapered.	..	40-78	..	..	..	46-50	..	..		
0-539	1-61	47-50	48-50	51-50	Do.	..	39-70	..	..	..	47-50	..	..		
vide report, page 33.															
8-78	17-56	48-50	50-00	53-00	Tapered.	+ 1-5	46-00	38-42	..	..	48-50	48-50	..		
0-34	1-37	48-75	50-00	53-00	Do.	..	44-75	..	..	..	48-75	..	..		
0-37	1-85	49-33	50-60	53-60	Do.	..	45-42	..	..	..	49-35	..	..		
1-59	6-36	49-34	50-34	53-34	Do.	..	44-08	..	..	..	49-34	..	..		
3-26	8-15	50-50	51-50	54-50	Do.	..	44-20	..	..	..	50-50	..	..		
17-66	35-32	46-84	48-34	52-84	Do.	..	40-06	35-80	41-00	..	46-84	..	..		
works were not investigated.															
51-84	77-76	46-00	47-25	53-25	50-25	..	38-54	35-88	37-21	..	46-00	46-00	..		
work was not investigated.															
21-8	43-6	48-00	49-50	52-50	Tapered.	..	40-42	35-35	..	..	48-00	48-00	48-00		
0-566	2-26	48-70	49-70	52-70	Do.	..	45-80	..	..	..	48-70	..	..		
works were not investigated.															
2-75	4-5	47-91	49-41	52-41	52-41	..	40-50	..	..	..	47-91	..	..		
1-60	2-00	48-47	49-97	52-97	52-97	..	42-00	..	..	..	48-47	..	..		
3-82	7-64	48-75	50-25	53-25	53-25	..	41-50	..	..	..	48-75	..	..		
works were not investigated.															
8-06	12-09	46-50	48-00	52-50	Tapered.	..	42-50	35-21	41-25	..	46-50	..	..		
works were not investigated.															
2-43	7-30	47-50	48-50	51-50	51-50	..	42-20	..	..	..	47-50	..	..		
works were not investigated.															
0-118	0-775	47-00	48-00	51-00	51-00	..	45-00	..	..	..	47-00	..	..		
0-317	1-25	44-25	45-25	48-25	Tapered.	..	38-50	..	..	..	44-25	..	..		
0-137	0-413	48-50	49-50	52-50	Do.	..	44-50	..	..	..	48-50	..	..		

Vallam tank surplus.
when the lists concerned have been revised.

(3)
Issued on 5th September 1923.
Page 15.
No. 1. MANIMANGALAM TANK.
In the statement of hydraulic details against the name of tank in column 25 for "32-76" read "32-72" and for "37-00" read "36-63". In column 22 for "38-30" read "37-19" and in column 23 add "38-27".

in work
k inc

Vide columns 22 to 27.

Statement of the Hydraulic Details of Tanks

Number in group.	Name.	Number.		Co-efficient.	Catchment basin.		Maximum discharge.			Length of surplus escapes.				
		In list of works in charge of the P.W.D.	In system.		C. =	Free. Square miles.	Combined. Square miles.	From combined catchment area. Cubic feet per sec.	From supply channel. Cubic feet per sec.	Total discharge to be provided for. Cubic feet per sec.	Weirs.		Bye-washes.	
											Existing.	Existing plus proposed.	Existing.	Existing plus proposed.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
MALAIPPATTU														
1	Malaippattu tank	..	..	500 & 100	1.39	4.60	1,165	..	1,165	..	..	500	500	
2	Vellarai tank	..	..	500 & 100	0.77	3.21	907	..	907	..	212	..	..	
3	Ottankaranai tank	..	..	..	..	..	..	..	..	..	..	..	..	
4	Do. tangal	..	..	..	..	..	..	..	..	..	..	..	..	
5	Navalur large tank	..	..	500	2.05	2.05	807	..	807	..	70	..	..	
These being private works were not														
PILLAPAKKAM														
1	Pillapakkam tank	..	..	500 & 100	3.82	11.19	2,123	196	2,319	100	316	..	..	
2	Pondur Odda tangal	..	..	500 & 100	0.09	0.39	222	..	222	..	..	..	52	
3	Do. Sitteri	..	..	500	0.3	0.3	225	..	225	..	..	15	52	
4	Do. Baderi tank	..	..	500 & 100	0.92	4.13	1,070	196	1,266	..	168	..	..	
5	Do. large tank	..	..	500 & 100	0.9	3.00	880	..	880	..	93	..	..	
6	Araneri do.	..	..	500 & 100	1.11	2.06	712	..	712	..	93	..	..	
7	Salayanur Sitteri	..	..	..	..	..	..	..	..	..	..	..	..	
8	Do. tank	..	..	..	..	..	..	..	..	..	..	..	..	
9	Sirumankadu tangal	..	..	500	0.15	0.15	142	..	142	..	..	..	61	
10	Araneri Naga tangal	..	..	500	0.16	0.16	147	..	147	..	25	..	..	
11	Irunkulam	..	..	500	0.16	0.16	147	..	147	..	..	..	34	
12	Mambakkam tank	..	..	..	..	..	..	..	..	..	..	..	..	
13	Do. Sitteri	..	..	..	..	..	..	..	..	..	..	..	..	
14	Tirumangalam tank	..	..	500	0.58	0.58	348	Under regulation.	348	32½	32½	..	..	
15	Pondur Vuttukuttai tangal.	..	..	500	0.09	0.09	93	..	93	..	..	..	43	
16	Kachupattu tangal	..	..	500	0.17	0.17	154	..	154	..	..	..	66	
KOLATTUR														
1	Kolattur tank	..	..	500 & 100	1.24	1.75	662	..	662	..	108½	..	..	
2	Navalur tangal	..	..	500	0.48	0.48	307	..	307	..	..	25	71½	
3	Nullatanni tangal	..	..	500	0.03	0.03	48	..	48	..	..	..	21	
KARUNAGARACHERI														
1	Karunagaracheri tank	..	..	500 & 100	0.57	1.62	586	..	586	..	..	..	160½	
1-A	Karunagaracheri Achukattu tangal.	..	..	..	..	..	..	..	..	..	..	..	Not taken up—vide	
2	Then tangal	..	..	..	..	..	..	..	..	..	..	..	..	
3	Irumbedu tank	..	..	..	..	..	..	..	..	..	..	..	..	
4	Venkadu do.	..	..	500 & 100	0.51	0.55	324	87	411	25	25	..	85	
5	Do. Ichan tangal	..	..	500	0.04	0.04	59	..	59	..	..	..	25	
PADAPPAL														
1	Padappal tank	..	..	500 & 100	1.64	3.69	1,035	..	1,035	55½	55½	..	106	
2	Attanunjeri tank	..	..	500 & 100	1.03	1.73	642	..	642	24½	130½	..	..	
3	Salamangalam large tank.	..	..	500 & 100	0.47	0.70	357	..	357	..	83½	..	..	
4	Nochili tangal	..	..	500 & 100	0.02	0.23	154	..	154	..	..	..	77	
5	Vanjivancheri large tank.	..	..	500	0.21	0.21	183	..	183	..	..	..	79	
ARAMBAKKAM														
1	Arambakkam tank	..	..	500 & 100	1.21	1.41	592	..	592	37	37	..	134	
2	Navalur tank	..	..	500 & 100	0.57	2.22	711	..	711	62½	62½	..	..	
3	Nemmili tangal	..	..	..	..	..	..	..	..	..	..	..	..	
4	Moseri tank	..	..	500	0.37	0.37	258	..	258	..	..	..	111	
5	Serappanancheri large tank.	..	..	500 & 100	0.7	1.1	479	..	479	30	30	..	69	
6	Panappakkam tank	..	..	500	0.45	0.45	294	..	294	37½	37½	..	..	
7	Velleritangal tank	..	..	500 & 100	0.14	0.20	156	..	156	..	..	..	67	
8	Poratteri tangal	..	..	500	0.036	0.036	55	..	55	..	..	..	28	
9	Pudu tangal	..	..	500	0.024	0.024	42	..	42	..	..	..	60	
OPATTUR														
1	Orattur tank	..	..	500 & 100	1.78	5.17	1,269	..	1,269	36	65	200	200	
1-A	Thamarakurai tangal	..	..	500	0.04	0.04	59	..	59	..	..	..	30	

* Supply from Kammakal through No. 4, Pondur-Buder tank.

(2)

Issued on 19th September 1923.

Pages 16 and 17.

No. 14, TIRUMANGALAM TANK.

In the statement of hydraulic details against the name of the work delete figures in columns 11, 12, 17, 18 and 19 and insert 34, 34, 45, 46.56, 48.56 52.56 in columns 11, 12, 14, 17, 18 and 19 respectively.

(2)

Page 16.

No. 3, PONDUR SITTERI.

In the statement of hydraulic details—

Omit proposed length of byewash 52½ feet in column 14 and insert proposed length of weir 37 feet in column 12.

(4)

Issued on 19th September 1923.

Pages 16 and 17.

No. 7, VELLERITANGAL TANK.

In the statement of hydraulic details against the name of the work omit figures under columns 14 and 26 and insert '28½ feet and 47.59' under columns 14 and 26 respectively.

Page 17.
 NO. 1, KOLATTUR TANK.
 In column 25 "Sill of sluice No. 4" against the work insert 37.00.

(2)
 Page 17.
 No. 1, MALAIPPATTU TANK.
 In the statement of hydraulic details for the figures given in columns 15, 16, 17, 18, 19, 20, 22 and 26 read "14.00, 28.00, 43.73, 44.73, 48.73, 48.73, 56.70 and 43.73", respectively.

No. 4, VENKADU TANK.
 In the statement of hydraulic details printed on pages 16 and 17, substitute the following for the figures given in columns 9, 10, 22, 23 and 24—
 "Nil, 324, 35.35, 37.13 and 41.48.

(13)
 NO. 2, NAVALUR TANGAL.
 In column 23 'sill of sluice No. 2' against the work insert "36.75".

IN THE ADYAR MINOR BASIN.

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in the Adyar Minor Basin—cont.

Approximate capacity of tank at F.T.L.		Total annual storage required.		Standard data to be maintained.															Bench mark to which levels refer.
				Levels with reference to bench mark.				Level of top of revetment with reference to F.T.L. ± Fy.	Levels with reference to bench mark.										
				Full tank level.	Maximum water level.	Level of top of bund.			Sill of sluice No. 1.	Sill of sluice No. 2.	Sill of sluice No. 3.	Sill of sluice No. 4.	Crest of escape No. 1.	Crest of escape No. 2.	Crest of escape No. 3.				
						At centre.	At flanks.												
Mill. cubic feet.	Mill. cubic feet.	17	18	19	20	21	22	23	24	25	26	27	28	29					
TANK GROUP.																			
9.87	24.69	42.73	43.73	48.23	48.23	..	36.72	..	..	..	42.73	..	..	..					
13.00	26.00	43.00	44.50	49.00	Tapered.	..	37.00	34.90	39.44	..	43.00	..	..	..					
investigated.																			
12.44	24.86	44.50	46.25	50.75	49.25	..	36.62	38.04	..	..	44.50	..	..	..					
TANK GROUP.																			
122.04	183.06	46.59	48.59	54.59	53.09	+ 2	40.62	40.05	32.32	34.74	47.09	46.59	..	..					
0.39	1.17	47.00	48.50	51.50	51.50	..	34.50	..	..	..	47.00	..	..	..					
3.26	8.00	47.50	49.00	52.00	52.00	..	43.50	..	..	..	47.50	..	..	..					
2.46	4.92	47.01	49.01	53.51	Tapered.	..	41.80	..	..	..	47.01	..	..	..					
15.00	30.00	47.25	49.25	53.75	Do.	+ 2	44.01	..	..	..	47.25	..	..	..					
12.70	19.00	47.75	49.50	54.00	Do.	..	41.40	37.25	..	..	47.75	..	..	..					
investigated.																			
1.77	3.54	50.00	51.00	54.00	54.00	..	44.19	..	..	..	50.00	..	..	..					
0.75	2.25	48.39	49.89	52.89	51.39	..	43.39	..	..	..	48.39	..	..	..					
1.43	4.50	47.25	48.75	51.75	51.75	..	42.25	..	..	..	47.25	..	..	..					
investigated.																			
14.8	22.2	48.73	49.73	54.23	Tapered.	..	39.04	35.29	37.60	..	48.73	..	..	..					
0.74	1.48	46.75	47.75	50.75	Do.	..	43.75	..	..	..	46.75	..	..	..					
1.57	4.71	46.00	47.00	50.00	Do.	..	41.24	..	..	..	46.00	..	..	..					
TANK GROUP.																			
37.6	79.0	40.00	41.50	46.00	44.50	..	28.80	29.20	33.50	..	40.00	..	..	..					
3.55	14.2	41.00	42.50	45.50	45.50	..	34.74	..	..	..	41.00	..	..	..					
0.45	1.35	41.75	42.75	45.75	Tapered.	..	37.50	..	..	..	41.75	..	..	..					
TANK GROUP.																			
2.57	10.28	36.00	37.25	40.25	40.25	..	31.18	35.72	..	..	36.00	..	..	..					
report, page 51.																			
investigated.																			
24.33	48.66	44.25	45.25	49.75	49.75	..	34.57	36.45	41.40	..	44.25	44.25	..	..					
0.09	0.27	45.00	46.00	49.00	Tapered.	..	43.00	..	..	..	45.00	..	..	..					
TANK GROUP.																			
35.12	69.86	42.62	44.12	48.62	47.12	..	36.50	32.05	33.73	..	42.62	42.62	42.62	..					
13.50	27.00	45.00	46.25	49.25	49.25	..	41.87	35.18	42.25	..	45.00	45.00	..	..					
9.31	18.63	47.14	48.64	51.64	Tapered.	..	41.42	36.75	..	..	47.14	..	..	..					
0.35	1.40	48.50	49.50	52.50	52.50	..	45.36	..	..	..	48.50	..	..	..					
4.40	8.80	48.70	49.70	52.70	Tapered.	..	43.95	39.23	..	..	48.70	..	..	..					
TANK GROUP.																			
20.71	41.42	47.00	48.00	52.50	51.00	..	42.00	37.78	..	..	47.00	47.00	..	..					
12.59	25.18	47.90	49.40	53.90	52.40	..	35.91	40.06	..	..	47.90	47.90	..	..					
report, page 56.																			
4.13	12.41	48.50	49.50	52.50	52.50	..	41.64	45.21	..	..	48.50	..	..	..					
17.80	26.70	48.79	50.29	54.79	Tapered.	+ 1.5	41.92	35.18	..	..	48.79	48.79	..	..					
4.79	14.38	49.80	50.80	53.80	53.80	..	42.48	45.41	..	..	49.80	..	..	..					
1.9	6.65	48.09	49.09	52.09	52.09	..	38.86	..	..	..	48.09	..	..	..					
0.27	1.08	48.60	49.60	52.60	52.60	..	..	..	..	..	48.60	..	..	..					
0.14	0.56	48.55	49.05	52.05	52.05	..	46.39	..	..	..	48.55	..	..	..					
TANK GROUP.																			
31.4	62.8	48.00	49.50	55.50	Tapered.	+ 3.0	35.67	39.67	..	..	48.00	48.00	48.00	..					
0.19	1.14	48.70	49.70	51.70	51.70	..	43.51	..	..	..	48.70	..	..	..					

† From the surplus channel of Kammakal.

‡ Supply from Choudry kal.

Statement of the Hydraulic Details of Tanks

Number in group.	Name.	Number.		Co-efficient.	Catchment basin.		Maximum discharge.			Length of surplus escapes.			
		In list of works in charge of the P.W.D.	In system.		Free.	Combined.	From combined catchment area.	From supply channel.	Total discharge to be provided for.	Weirs.		Bye-washes.	
										Existing.	Existing plus proposed.	Existing.	Existing plus proposed.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
ORATTUR													
2	Nattarasampattu Sitteri ..	..	..	500 & 100	0.2	0.36	224	..	224	26	26	..	37
3	Rettapallam tank ..	..	..	500	0.16	0.16	147	..	147	..	..	..	88½
4	Kanjivakkam tank ..	..	..	500 & 100	0.93	2.99	876	..	876	43½	43½	40	40
5	Punthottathu yeri ..	..	..	500 & 100	0.32	0.83	378	..	378	..	..	..	121½
6	Nattapallam yeri ..	..	..	500	0.08	0.08	93	..	93	..	..	..	56
7	Umayaparanacheri large tank ..	..	..	500	0.43	0.43	285	..	285	..	..	..	70
8	Putteri ..	..	..	500 & 100	0.11	0.65	309	..	309	..	..	..	139
9	Vattambakkam large tank ..	..	..	500	0.54	0.54	312	..	312	33	33	..	..
10	Pulicheri ..	..	..	500	0.23	0.23	188	..	188	..	..	..	81
11	Katteri ..	..	..	500	0.35	0.35	248	..	248	..	..	Low ground.	..
KILAKKALANI													
V	Kilakkalani tank ..	..	..	500 & 100	0.59	4.03	519	..	519	..	50	..	..
C	Kattupakkam tank ..	..	..	500	0.36	0.36	253	..	253	..	..	..	69
C	Sitteri ..	..	..	500	0.02	0.02	37	..	37	..	..	Temporary cut.	..
3	Vadamelpakkam tank ..	..	..	500 & 100	0.29	1.62	569	..	569	23	23	..	120
3	Siruvanjur Katteri ..	..	..	500 & 100	0.93	1.33	550	..	550	62	62	..	..
S	Settamangalam tangal ..	..	..	500	0.1	0.1	108	..	108	..	..	6	48½
	Do. tank ..	..	..	500	0.3	0.3	224	..	224	..	..	..	54½
	Erivakkam tank ..	..	..	500 & 100	0.53	1.44	544	..	544	24½	24½	112	112
	Buderi ..	..	..	500	0.33	0.33	239	Regu- lated.	239	..	26	..	..
	Siruvanjur large tank ..	..	..	500	0.58	0.58	348	..	348	35½	35½	..	..
KAVANUR													
col	Kavanur tank ..	..	..	500 & 100	1.05	3.04	891	..	891	95	95	30	30
	Konadi tank ..	..	..	500	0.13	0.13	128	..	128	..	..	..	58
	Do. tangal ..	..	..	500	0.16	0.16	147	..	147	..	..	74	74
	Buderi ..	..	..	500 & 100	0.29	1.19	466	..	466	..	76½	..	..
	Kattankolattur large tank ..	..	..	500	0.9	0.9	466	..	466	..	99½	..	..
	Maruderi ..	..	..	500 & 100	0.17	0.61	270	..	270	..	..	..	63
8	Korakan tangal ..	..	..	..	..	..	..	..	..	Not taken up being an insignificant	..	..	..
	Do. do. tank ..	..	..	600	0.23	0.23	188	..	188	..	..	113	113
ADANUR													
	Adanur tank ..	..	..	500 & 100	1.27	7.0	1,509	..	1,509	49½	49½	..	269
	Guduvanjuri tank ..	..	..	500 & 100	1.3	5.0	1,223	..	1,223	24	24	320	320
	Do. tangal ..	..	..	500	0.1	0.1	108	..	108	..	..	46½	46½
	Vallanjuri tangal ..	..	..	..	..	..	..	..	..	..	..	..	..
	Do. tank ..	..	..	500 & 100	0.53	3.25	902	..	902	..	50	..	50½
	Potteri tank ..	..	..	500 & 100	1.49	2.72	859	..	859	61	61	53	53
	Karai yeri ..	..	..	500	0.28	0.28	214	..	214	..	..	52	52
	Sitteri ..	..	..	500 & 100	0.11	0.53	271	..	271	..	..	..	66
	Ninnaparai tank ..	..	..	500	0.84	0.84	445	..	445	24	24	57	57
	Potteri tangal ..	..	..	500	0.24	0.24	193	..	193	..	..	..	86
11	Madambakkam tangal ..	..	..	500 & 100	0.17	0.25	180	..	180	..	..	..	78
12	Do. tank ..	..	..	500 & 100	0.51	0.56	326	..	326	27½	27½	..	37
13	Tailapuram tangal ..	..	..	500 & 100	0.06	0.13	111	..	111	..	..	66	66
14	Do. tank ..	..	..	500	0.07	0.07	85	..	85	..	..	..	38
NILAMANGALAM													
1	Nilamangalam tank ..	..	..	..	..	..	..	..	..	This being a private work	..	..	..
2	Kuttanur tank ..	..	..	500	0.45	0.45	294	..	294	..	..	..	69
KORAKANTANGAL													
1	Korakantangal tank ..	..	..	500 & 100	0.12	0.21	157	..	157	..	..	94	94
2	Do. tangal ..	..	..	500	0.09	0.09	100	..	100	..	..	60	60

* At the right flank. † Towards the left flank. ‡ Irrigation vent in weir No. 2. § At the left flank.
 ** Sill of culvert.

(2)

Page 18.

(Issued on 1st February 1917.)

No. 4, KANJIVAKKAM TANK.

In the statement of hydraulic details, against the name of work, delete the figures in columns 11 to 14 and insert "42½, 42½, 100, and 100" in their places.

Page 4.

No. 2, NAVALUR TANGAL.

For the figures given in columns 5, 7, 8, 9, 10, 12, 14 and 15 read the following:—280, 159, 489, 149, 489, 489, 159 and 489.

(5)

Issued on 5th September 1923.

Page 18.

No. 3, KONADI TANGAL.

In the statement of hydraulic details against the tank in columns 11, 12, 13 and 14 read "100" and "100".

(5)

Page 18.

(Issued on 1st February 1917.)

In the statement of hydraulic details against No. 7, Settamangalam tank, delete the figure 54½ in column 14, and insert 47 in column 12.

(17)

NO. 11, KATTERI.

Omit the entry in column 13, against the work. In column 14, against the work insert the following:—"100".

(2)

Pages 18 and 19.

No. 12, MADAMBAKKAM TANK.

In the statement of hydraulic details delete the entries under columns 11, 12, 14, 15, 16, 17, 23, 26 and 27 against this tank and insert 66, nil, nil, 15.94, 23.91, 49.00, 36.60, 49.00 and 49.00.

(2)

Page 18.

No. 10, POTTERI TANGAL.

In the statement of hydraulic details—

Omit the figure in column 14 under proposed length of byewash and insert "58" in column 12 as the proposed length of weir.

Page 18.

No. 5, VALLANJERI TANK.

In the statement of hydraulic details, omit the figures in columns 12, 14 and 23 and insert "110 and 48.50 in columns 12 and 23" respectively.

in the Adyar Minor Basin—cont.

Approximate capacity of tank at F.T.L.		Total annual storage required.	Standard data to be maintained.																										
			Levels with reference to bench mark.				Level of top of revetment with reference to F.T.L. (+ Feet.)	Levels with reference to bench mark.																					
			Full tank level.	Maximum water level.	Level of top of bund.			Sill of sluice No. 1.	Sill of sluice No. 2.	Sill of sluice No. 3.	Sill of sluice No. 4.	Crest of escape No. 1.	Crest of escape No. 2.	Crest of escape No. 3.															
					At centre.	At flanks.																							
Mill. cubic feet.	Mill. cubic feet.																												
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29															
TANK GROUP—cont.																													
3-01	9-03	49-25	50-50	53-50	53-50	..	43-02	40-74	44-50	..	49-25	49-25	..																
2-24	4-48	50-00	51-00	54-00	54-00	..	47-00	..	..	..	50-00	..	..																
15-01	30-02	49-00	50-50	55-00	53-50	..	42-63	40-87	42-43	..	49-00	49-00	49-00																
6-07	9-12	52-00	53-25	56-25	56-25	..	44-74	50-50	..	..	52-00	..	..																
0-74	1-488	53-00	54-00	57-00	57-00	..	50-00	..	..	..	53-00	..	..																
8-83	22-08	56-00	57-50	62-00	60-50	..	46-06	..	..	..	56-00	..	..																
2-09	6-27	51-00	52-00	55-00	55-00	..	45-50	46-00	..	..	51-00	51-00	..																
6-98	10-48	52-00	53-50	58-00	56-50	..	39-24	..	..	..	52-00	..	..																
0-82	3-28	49-59	50-59	53-59	53-59	..	45-00	..	..	..	49-59	..	..																
5-01	10-02	52-65	53-65	56-65	†Tapered.	..	40-34	..	..	..	..	..	..																
TANK GROUP.																													
9-02	27-06	52-00	53-50	58-00	*56-50	..	46-72	42-05	..	..	52-00	..	..																
5-19	10-39	53-00	54-50	57-50	57-50	..	50-00	43-72	..	..	53-00	..	..																
1-33	3-99	49-36	50-36	53-36	†Tapered.	..	42-12	..	..	..	49-36	..	..																
6-36	12-72	56-50	58-00	62-50	Tapered.	..	53-72	48-28	51-00	..	56-50	56-50	..																
24-32	30-40	60-63	61-83	66-38	Do.	..	48-16	55-38	..	..	60-63	60-63	..																
1-88	3-76	68-00	69-00	72-00	72-00	..	61-30	..	..	..	68-00	..	..																
4-58	6-87	70-25	71-75	74-75	74-75	..	63-17	63-09	..	..	70-25	..	..																
5-19	10-38	53-25	54-75	57-75	57-75	..	50-00	43-00	..	..	53-25	53-25	..																
10-33	20-66	62-50	64-00	68-50	67-00	..	52-60	..	..	..	62-50	..	..																
12-68	19-02	59-53	61-03	65-53	64-03	..	55-02	48-97	49-31	54-31	59-53	..	..																
TANK GROUP.																													
29-70	53-40	53-39	54-89	60-89	Tapered.	..	46-04	41-07	38-26	..	53-39	..	..																
2-56	3-84	53-50	54-50	57-50	Do.	..	48-33	43-10	..	..	55-50	..	..																
0-273	1-365	53-48	54-48	56-48	56-48	..	50-12	..	..	..	53-48	..	..																
1-72	6-88	54-00	55-50	58-50	58-50	..	47-58	..	..	..	54-00	..	..																
23-88	35-82	55-25	56-50	61-00	59-50	+ 1 1/4	40-86	49-19	..	..	55-25	..	..																
1-90	3-80	54-40	55-90	58-90	58-90	..	48-68	..	..	..	54-40	..	..																
work—vide report, page 69.																													
0-99	2-97	56-66	57-66	60-66	60-66	..	51-66	..	..	..	56-66	56-66	..																
TANK GROUP.																													
36-09	72-18	45-96	47-46	53-46	50-46	..	36-51	35-10	38-54	40-99	45-96	45-96	46-46																
8-02	24-06	52-44	53-94	58-44	Tapered.	..	48-84	43-36	46-76	..	52-44	52-44	..																
0-595	1-79	57-37	58-37	60-37	60-37	..	52-41	..	..	..	57-37	..	..																
vide report, page 71.																													
13-42	26-84	60-50	62-00	66-50	¶ Tapered.	..	54-92	48-54	..	..	60-50	60-50	..																
26-02	52-04	60-99	62-49	66-99	Tapered.	+ 1 1/4	55-18	47-85	49-30	57-50	60-99	60-99	..																
6-42	9-63	67-90	69-40	73-90	73-90	+ 1 1/3	58-37	..	..	..	67-90	67-90	..																
0-182	0-91	70-00	71-40	74-50	Tapered.	..	64-38	..	..	..	70-00	70-00	..																
14-00	21-00	72-50	74-00	78-50	Do.	+ 1 1/2	62-66	..	..	..	72-50	72-50	..																
5-1	6-4	61-75	62-75	65-75	65-75	..	¶57-60	53-15	..	..	61-75	..	..																
1-4	4-2	53-00	54-00	57-00	57-00	..	48-50	..	..	..	53-00	..	..																
16-94	26-41	48-00	49-50	54-00	Tapered.	..	††44-17	33-64	..	..	48-00	48-00	..																
0-175	0-88	52-00	53-00	56-00	56-00	..	43-08	..	..	..	52-00	52-00	..																
0-76	1-90	52-87	53-87	56-87	56-87	..	42-04	..	..	..	52-87	..	..																
TANK GROUP.																													
was not investigated.																													
4-2	12-6	47-40	48-9	53-40	Tapered.	..	43-01	38-58	41-09	..	47-40	..	..																
TANK GROUP.																													
0-72	3-6	40-00	41-00	44-00	44-00	..	35-00	..	..	..	40-00	..	..																
0-25	1-50	45-00	46-00	48-00	48-00	..	40-53	..	..	..	45-00	..	..																

¶ Only about half the supply from the combined catchment area enters the tank. ¶ Towards the right flank.
 †† Vent in body wall of weir.

Vide columns 22 to 28.

Statement of the Hydraulic Details of Tanks

Number in group.	Name.	Number.		Co-efficient.	Catchment basin.		Maximum discharge.			Length of surplus escapes.			
		In list of works in charge of the P.W.D.	In system.		Free.	Combined.	From combined catchment area.	From supply channel.	Total discharge to be provided for.	Weirs.		Bye-washes.	
										Existing.	Existing plus proposed.	Existing.	Existing plus proposed.
2		3	4	5	6	7	8	9	10	11	12	13	14
MANNIVAKKAM													
1	Mannivakkam tank	..	..	500 & 100	2.18	14.75	2,467	..	2,467	24½	24½	500	782½
2	Vettakaran tangal	..	..	500	0.26	0.26	204	..	204	..	..	..	66
3	Manivakkam Sitteri	..	..	..	..	..	..	..	..	Vide report of No. 1.			
4	Kilampakkam tank	..	..	500	0.56	0.56	340	..	340	32	32	36½	36½
5	Urappakkam tangal	..	..	500	0.11	0.11	115	..	115	..	..	..	49
6	Do. sitteri	..	..	500 & 100	0.02	0.02	37	..	37	..	..	22	22
7	Do. tank	..	..	500 & 100	0.58	1.84	634	..	634	22	22	..	122½
8	Karanai Puducheri tank	..	..	500 & 100	0.93	1.26	536	..	536	..	..	..	104
9	Ayyanjeri tangal	..	..	500	0.33	0.33	239	..	239	..	..	..	108
10	Do. tank	..	..	..	..	..	..	..	..	Not taken up—			
11	Karanai Puducheri tangal.	..	..	500	0.24	0.24	193	..	193	..	..	..	83
12	Nandivaram hissa tank	..	..	500 & 100	4.62	8.76	1867	..	1867	122	122	200	200
13	Perumpattunellur tank	..	..	500 & 100	1.02	1.67	629	..	629	24	24	..	68½
14	Do. tangal.	..	..	500 & 100	0.21	0.54	284	..	284	..	..	..	170
15	Kannivakkam tank	..	..	500	0.98	0.98	493	..	493	35	92	..	..
16	Kayerampadu tangal	..	..	500	0.21	0.21	177	..	177	..	..	..	57
17	Do. sitteri	..	..	..	..	..	..	..	..	Not taken up—			
18	Do. tank	..	..	500	1.72	1.72	718	..	718	32	32	153	153
19	Nandivaram tangal	..	..	500 & 100	0.05	0.16	124	..	124	..	..	94	94
20	Kandigai tangal	..	..	..	..	..	..	..	..	Not taken up—			
MUDICHUR SIKKRIAN													
1	Mudichur Sikkrian Yeri	..	..	500 & 100	0.49	4.03	†1,034	..	532	..	††37½	..	..
2	Rungapuram tank	..	..	500 & 100	0.10	1.4	502	..	502	..	..	70	137
3	Perunkaluttur sitteri	..	..	500 & 100	0.64	1.32	524	..	524	..	50	..	100
4	Do. tank	..	..	500	0.68	0.68	387	..	387	..	30	..	91½
5	Mudichur tank	..	..	500 & 100	0.80	2.15	711	..	711	34½	34½	..	123
6	Vendalur tangal	..	..	500	0.19	0.19	165	..	165	..	..	97	97
7	Do. tank	..	..	500 & 100	0.81	1.16	502	..	502	..	..	145	145
8	Do. Otteri	..	..	100	0.35	0.35	248	..	248	24½	24½	..	..
VARADARAJAPURAM													
1	Varadarajapuram tank	..	..	500 & 100	0.44	0.48	295	†502	797	..	..	..	187
2	Sanan tangal	..	..	100	0.04	0.04	58	..	58	..	..	35	35
TAMBARAM PUDU													
1	Tambaram Pudu tangal	..	..	500 & 100	0.17	0.38	227	..	227	..	37	..	..
2	Do. Yetti do.	..	..	500 & 100	0.05	0.21	147	..	147	..	..	88	88
3	Do. Vannan yeri	..	..	500	0.16	0.16	147	..	147	..	24	..	..
TIRUNIRMALAI													
1	Tirunirmalai tank and sitteri	..	..	500 & 100	1.20	2.30	766	..	766	93½	93½	..	..
2	Pammal tangal	..	..	..	..	..	..	..	..	This being a private work			
3	Viraragavan yeri	..	..	500	0.26	0.26	204	..	204	78	78	..	..
4	Kadapperi	..	..	500 & 100	0.17	0.77	349	..	349	..	..	..	82
5	Hissa Patteri	..	..	500	0.60	0.60	356	..	356	..	..	..	87½
SOMANGALAM													
1	Somangalam tank	..	..	500 & 100	1.47	2.34	789	**666	1,455	106	106	..	198
2	Sakkili tangal	..	..	500	0.33	0.33	238	..	238	..	..	200	200
3	Nallur tank	..	..	500	0.54	0.54	332	..	332	..	77½	..	..
SOMANGALAM													
1	Somangalam sitteri	..	..	500 & 100	0.79	1.25	521	..	521	..	..	A cut in the bund.	..
2	Melattur tank	..	..	500	0.46	0.46	298	..	298	..	..	107	107

* Vent in body wall of weir.

† Of this quantity tank No. 5 of the group discharges 592 cubic feet into

** From drainage stream.

†† Effective waterway 30 feet.

In the Adyar Minor Basin—cont.

Approximate capacity of tank at F.T.L.		Total annual storage required.	Standard data to be maintained.																Bench mark to which levels refer.	
			Levels with reference to bench mark.				Level of top of revetment with reference to F.T.L. ± Feet.	Levels with reference to bench mark.												
			Full tank level.	Maximum water level.	Level of top of bund.			Sill of sluice No. 1.	Sill of sluice No. 2.	Sill of sluice No. 3.	Sill of sluice No. 4.	Crest of escape No. 1.	Crest of escape No. 2.	Crest of escape No. 3.						
					At centre.	At flanks.														
Mill. cubic feet.	Mill. cubic feet.																			
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29						
TANK GROUP.																				
23-69	47-40	40-50	42-00	46-50	45-00	..	37-35	31-01	30-46	..	40-50	40-50	40-50	..	..	..	..	..		
0-70	3-50	41-50	42-75	46-75	Tapered.	..	38-00	37-50	..	..	41-50	..	..	..	..	..	..	..		
Mannivakkam tank, page 77.																				
10-56	15-8	41-05	42-55	47-05	45-55	+ 1-5	39-42	33-89	30-70	38-05	41-05	41-05	..	..	..	..	..	..		
1-24	3-10	45-50	46-50	49-50	49-50	..	39-29	..	..	..	45-50	..	..	..	..	..	..	..		
0-76	3-80	47-50	48-50	51-50	51-50	..	44-00	45-00	..	..	47-50	..	..	..	..	..	..	..		
9-32	27-96	50-50	52-00	56-50	Tapered.	..	43-06	46-98	..	..	50-50	50-50	..	..	..	..	..	..		
3-56	10-68	52-50	54-25	57-25	57-25	..	48-36	50-00	..	..	52-50	..	..	..	..	..	..	..		
1-55	7-55	53-56	54-56	57-56	57-56	..	48-95	..	..	..	53-56	..	..	..	..	..	..	..		
vide report, page 80.																				
1-35	5-40	55-25	56-50	59-50	59-50	..	50-77	..	..	..	55-25	..	..	..	..	..	..	..		
59-70	179-10	57-20	59-20	65-20	65-20	+ 2	51-50	48-58	44-52	44-00	57-20	57-20	57-70	..	..	..	..	..		
15-43	30-86	58-50	60-00	64-50	Tapered.	+ 1-6	47-48	52-20	..	..	58-50	58-50	..	..	..	..	..	..		
2-06	6-18	59-50	60-50	63-50	Do.	..	55-50	53-43	..	..	59-50	..	..	..	..	..	..	..		
13-9	27-8	60-00	61-50	66-00	Do.	..	48-73	51-42	..	..	60-00	60-00	..	..	..	..	..	..		
1-74	2-61	60-17	61-42	64-42	64-42	..	52-90	..	..	..	60-17	..	..	..	..	..	..	..		
vide report, page 83.																				
35-24	46-99	60-36	61-86	67-86	Tapered.	+ 1-5	56-03	44-86	45-53	..	60-36	60-86	..	..	..	..	..	..		
0-55	2-20	57-60	58-60	61-60	61-60	..	50-56	52-14	..	..	57-60	..	..	..	..	..	..	..		
vide report, page 84.																				
YERI GROUP.																				
1-64	8-20	40-50	41-50	44-50	44-50	..	35-98	..	..	..	40-50	..	..	..	..	..	..	..		
0-95	2-85	45-50	47-00	50-00	50-00	..	40-82	..	..	..	45-50	45-50	..	..	..	..	..	..		
18-76	37-50	51-50	53-00	57-50	57-50	..	47-41	45-64	41-34	..	51-50	51-50	..	..	..	..	..	..		
15-3	23-0	47-00	48-50	53-00	+ 51-50	..	34-50	..	..	..	47-00	47-00	..	..	..	..	..	..		
20-55	41-10	45-90	47-40	53-40	Tapered.	..	37-66	31-89	40-88	..	45-90	45-90	..	..	..	..	..	..		
0-83	3-30	49-00	50-00	53-00	53-00	..	44-89	..	..	..	49-00	..	..	..	..	..	..	..		
11-90	23-80	52-25	53-75	56-75	+ 56-75	..	47-89	42-25	..	..	52-25	..	..	..	..	..	..	..		
2-22	6-66	54-00	55-00	58-00	58-00	..	45-47	40-45	..	..	54-00	..	..	..	..	..	..	..		
TANK GROUP.																				
3-20	19-20	38-50	40-00	43-00	43-00	..	33-75	..	..	..	38-50	..	..	..	..	..	..	..		
0-58	1-16	39-00	40-00	43-00	43-00	..	34-00	..	..	..	39-00	..	..	..	..	..	..	..		
TANGAL GROUP.																				
2-77	8-31	32-25	33-75	38-25	Tapered.	..	28-34	23-32	..	..	32-25	..	..	..	..	..	..	..		
0-21	1-05	35-40	36-40	39-40	39-40	..	32-10	..	..	..	35-40	..	..	..	..	..	..	..		
2-06	5-15	36-50	38-00	41-00	41-00	..	26-97	..	..	..	36-50	..	..	..	..	..	..	..		
TANK GROUP.																				
24-29	68-62	29-10	31-10	37-10	35-60	+ 2	22-70	17-91	18-72	17-14	29-10	..	..	..	..	..	..	..		
was not investigated.																				
5-31	10-62	32-20	33-20	37-70	37-70	+ 2	23-05	..	..	..	32-20	..	..	..	..	..	..	..		
1-35	5-44	42-90	44-40	47-40	47-40	..	35-47	..	..	..	42-90	..	..	..	..	..	..	..		
11-22	16-80	45-00	46-50	51-00	Tapered.	+ 1½	33-27	35-78	..	..	45-00	..	..	..	..	..	..	..		
TANK GROUP.																				
43-39	86-78	34-00	35-50	40-00	38-50	+ 1-5	26-60	23-64	22-52	25-62	34-00	34-00	..	..	..	..	..	..		
0-98	4-90	43-50	44-25	47-25	47-25	..	39-00	39-57	..	..	43-50	..	..	..	..	..	..	..		
7-45	14-90	40-80	42-30	46-80	46-80	+ 1-5	35-90	33-47	35-00	..	40-80	..	..	..	..	..	..	..		
SITTAI TANK GROUP.																				
23-48	34-00	35-50	40-00	38-50	+ 1-5	29-12	25-43	23-64	28-99	34-00	..	..	..	..	..	..	..	..		
13-08	35-50	36-75	41-25	Tapered.	..	28-19	..	..	..	35-50	..	..	..	..	..	..	..	..		

Varadarajapuram tank.
 † Average level of the road.
 ‡ At the left flank.

† At the right flank.

‡ At the right flank.

¶ Left flank surplus of Mudichur tank.

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 Issued on 30th September 1924.
 Page 21.

No. 15. KANNIVAKKAM TANK.

In the statement of hydraulic details against the name of work delete the figures in columns 15, 16, 22, 23, 24 and substitute 14-96, 29-92, 54-67, 49-83, 47-87 respectively.

(1)

Page 21.

In columns 15 and 23 against No. 8, Karanai Puduoheri tank in page 21 of the hydraulic details for "3-56" and "50-00" read "4-27" and "47-50", respectively.

vide columns 22 to 28.

Statement of the Hydraulic Details of Tanks

Number in group.	Name.	Number.		Co-efficient.	Catchment basin.		Maximum discharge.			Length of surplus escapes.			
		In list of works in charge of the P.W.D.	In system.		Free.	Combined.	From combined catchment area.	From supply channel.	Total discharge to be provided for.	Weir.		Bye-washes.	
										Existing.	Existing plus proposed.	Existing.	Existing plus proposed.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
NADUVIRAPPATTU													
1	Naduvirappattu sitteri ..	..	..	500 & 100	0.65	1.49	563	..	563	..	..	..	131½
2	Nadu tangal ..	..	..	500	0.84	0.84	526	..	526	..	23	..	98
3	Naduvirappattu tank ..	..	..	..	..	..	..	..	..	..	..	..	..
ERUMAIYUR													
1	Erumaiyur tank ..	..	..	500 & 100	0.41	0.50	295	..	295	..	48	..	50
2	Do. Tammam tangal.	..	..	500	0.09	0.09	100	..	100	..	..	50	50
PALANTANDALAM													
1	Palantandalam Padu yeri.	..	..	500 & 100	0.25	0.39	240	† 96	336	..	..	..	82½
2	Vannan kuttai ..	..	..	500	0.14	0.14	135	..	135	..	..	..	60
PUNTANDALAM													
1	Puntandalam Aiyaneri ..	..	..	500 & 100	0.38	0.83	383	..	383	24	24	40	40
2	Naduvirappattu tangal ..	..	..	500	0.11	0.11	115	..	115	..	..	50	50
3	Puntandalam sitteri ..	..	..	500	0.34	0.34	244	..	244	18½	18½	39	39
POLIOHALLUR MELANDAI													
1	Poliohallur Melandai tangal.	..	..	500 & 100	0.49	0.69	356	..	356	..	..	..	97
2	Perari tangal ..	..	..	500	0.02	0.02	37	..	37	..	..	18½	18½
3	Velarkani Serar tangal ..	..	..	..	..	..	..	..	..	..	..	..	..
4	Otteneri ..	..	..	500	0.18	0.18	159	..	159	..	..	Cuts.	..
MYLAPORE													
1	Mylapore tank ..	..	..	500 & 100	2.81	3.61	1,090	† 682	1,772	220	220	..	..
2	Mambalam tank ..	..	..	..	..	..	..	..	..	..	..	..	..
This being a private work was													
TARAMANAI HISSA													
1	Taramanai Hissa tank ..	..	..	500	0.47	0.47	302	† 266	568	75	75	..	..
2	Pallipattu tank ..	..	..	500	0.26	0.26	204	† 62	266	..	80	..	..
3	Kottur tank ..	..	..	500	0.71	0.71	435	..	435	21	136	..	..
KODUMBAKKAM HISSA													
1	Kodumbakkam Hissa tank.	..	..	500 & 100	1.42	1.62	656	..	656	190	190	..	92
2	Nesapakkam tank ..	..	..	500	0.20	0.20	171	..	171	..	..	36	46
PORUR HISSA													
1	Porur Hissa tank ..	..	..	500 & 100	8.46	8.74	2,078	..	2,078	232	232	275	275
2	Muppattu vattu tangal ..	..	..	500	0.28	0.28	214	..	214	18½	18½	Mamul cut.	..
NANDAMBAKKAM													
1	Nandambakkam tank ..	..	..	500 & 100	0.31	0.48	276	..	276	..	..	93	93
2	Do. tangal ..	..	..	500	0.17	0.17	153	..	153	..	..	71	71
ISOLATED													
I	Settipattu tangal ..	..	..	500	0.27	0.27	205	2,157	2,362	..	..	283	††283
II	Ammanambakkam large tank.	..	..	..	..	..	..	..	..	..	..	..	..
This being a private work was													
III	Tandakalani tangal ..	..	..	500	0.20	0.20	171	..	171	..	..	102½	102½
IV	Vumara tangal ..	..	..	500	0.10	0.10	107	..	107	..	..	70	70
V	Tambaram tank ..	..	..	500	0.36	0.36	253	..	253	45	45	..	..
VI	Irumbalur tank ..	..	..	500	0.81	0.81	430	..	430	25	25	..	69
VII	Pirkankaranai tank ..	..	..	500	0.30	0.30	224	..	224	..	..	..	101
VIII	Ninayeri ..	..	..	500	0.17	0.17	153	..	153	..	..	88	88
IX	Pullikoradu Jadamaneri ..	..	..	500	0.19	0.19	165	..	165	..	49½	..	..
X	Amarambedu tank ..	..	..	500	0.63	0.63	327	..	327	60	60	..	..

* Nos. 2 & 3 tanks are treated as one work. † At the left flank. ‡ Portion of No. I, Aiyaneri tank surplus.
 § Vide remarks in the report, page 99. ¶ The right flank surplus of No. 3, Kottur tank.
 §§ Of this, a length of 133 feet has been proposed to be built into a rough stone calingula.

(15)

NO. 1, NADUVIRAPPATTU SITTEI.

23

In column 24 'sill of sluice No. 3' against the work insert "27.00".

(19)

NO. 1, SETTIPATTU TANGAL.

22

In columns 13 and 14 against the work in page 23, omit the figure "283" and insert in column 14 the figure "170½".
 Also omit the foot-note relating to the figure '283' in column 14.
 Note.—Necessary corrections regarding the surplus works of No. I, Settipattu Tangal, should be made in the plate II of the Adayar Minor Basin.

in the Adyar Minor Basin—cont.

Standard data to be maintained.															Bench mark to which levels refer.
Approximate capacity of tank at F.T.L.	Total annual storage required.	Levels with reference to Bench Mark.				Level of top of revetment with reference to F.T.L.	Levels with reference to Bench Mark.								
		Full tank level.	Maximum water level.	Level of top of bund.			Sill of sluice No. 1.	Sill of sluice No. 2.	Sill of sluice No. 3.	Sill of sluice No. 4.	Crest of escape No. 1.	Crest of escape No. 2.	Crest of escape No. 3.		
				At centre.	At flanks.									± Feet.	
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
SITTERI GROUP.															
3.42	13.68	30.50	32.00	35.00	35.00	..	26.50	26.00	..	..	30.50	..	..		
19.17	28.80	39.25	40.75	45.25	43.75	..	28.88	27.00	..	..	39.25	39.25	..		
TANK GROUP.															
10.48	20.96	34.50	36.00	40.50	† 39.00	..	27.25	25.14	27.11	30.00	34.50	..	..		
1.72	3.44	36.50	37.50	40.50	40.50	..	31.00	32.36	..	..	36.50	..	..		
PUDU YERI GROUP.															
3.23	6.46	37.00	38.50	41.50	41.50	..	32.00	34.59	..	..	37.00	..	..		
0.76	3.80	37.25	38.25	41.25	41.25	..	30.92	..	..	..	37.25	..	..		
AIYANERI GROUP.															
6.84	20.50	36.88	38.63	43.13	43.13	..	29.85	27.15	..	..	36.88	36.88	..		
0.45	1.80	42.00	43.00	46.00	46.00	..	38.14	..	..	..	42.00	..	..		
3.82	7.64	47.85	49.35	53.85	Tapered.	..	40.74	..	..	..	47.85	47.85	..		
TANGAL GROUP.															
1.48	2.96	33.30	34.60	37.80	37.80	..	30.05	..	..	..	33.30	..	..		
0.46	0.92	39.50	40.50	43.50	43.50	..	36.00	..	..	..	39.50	..	..		
† Tapered work—vide report, page 98.															
2.88	7.20	40.00	41.00	45.50	Tapered.	..	31.18	..	..	..	..	..	..		
TANK GROUP.															
122.03	183.05	21.80	23.30	29.30	27.80	+ 2.5	12.46	15.08	14.91	14.35 / 21.80	21.80	..	..		
13.09 11.34 13.86 Not noted.															
15.67															
not investigated.															
TANK GROUP.															
6.82	20.46	15.58	17.58	22.08	20.58	..	8.88	10.27	7.61	7.36	15.58	15.58	..		
8.98	17.96	18.50	19.50	24.00	24.00	..	12.82	10.57	10.94	..	18.50	..	..		
13.89	27.78	19.00	20.00	24.50	Tapered.	..	12.87	13.25	11.64	..	19.00	19.00	..		
TANK GROUP.															
14.07	58.16	33.25	34.25	38.75	38.75	..	26.36	26.25	26.60	29.56	33.25	33.25	..		
0.26	1.30	36.75	38.00	41.00	Tapered.	..	29.50	..	..	..	..	..	..		
32.13															
TANK GROUP.															
33.60	100.80	40.70	42.70	47.20	Tapered.	+ 3	35.82	31.87	34.96	34.91	40.70	41.70	..		
2.14	5.35	64.80	65.80	68.80	68.80	..	37.67	38.50	..	..	..	..	..		
50.49 48.96															
TANK GROUP.															
1.33	5.32	34.96	36.21	39.21	39.21	..	30.79	32.44	..	..	34.96	..	..		
0.64	2.56	37.60	38.60	41.60	..	..	33.88	..	..	..	37.60	..	..		
WORKS.															
1.04	9.20	30.50	32.00	35.00	35.00	Below F.T.L.	25.12	..	..	..	30.50	30.50	..		
not investigated.															
1.60	4.80	35.00	36.00	39.00	39.00	..	29.61	..	..	..	35.00	..	..		
0.28	1.08	38.50	39.50	42.50	42.50	..	34.85	..	..	..	38.50	..	..		
4.70	14.10	38.33	39.33	44.33	Tapered.	+ 2.5	28.66	33.30	..	..	38.33	..	..		
12.53	25.06	40.50	42.00	46.50	† 44.00	+ 2.5	33.94	30.76	..	..	40.50	40.50	..		
4.49	8.98	36.00	37.00	41.50	Tapered.	..	28.31	..	..	..	36.00	..	..		
2.62	5.24	27.50	28.50	31.50	31.50	..	20.36	21.90	..	..	27.50	..	..		
0.65	3.25	34.00	35.00	40.10	Tapered.	..	24.38	..	..	..	34.00	..	..		
36.70	73.40	43.00	44.50	49.00	Do.	+ 1.5	31.90	34.98	37.86	39.55	43.00	43.00	..		

Fide columns 22 to 28.

† Surplus from Nungambakkam tank of Sembrambakkam minor basin.
•• Average level of existing bund. †† Sill of regulator sluice. ‡‡ At the left flank.

vide columns 22 to 28.

Statement of the Hydraulic Details of Tanks

Number in group.	Name.	Number.		Co-efficient.	Catchment basin.		Maximum discharge.			Length of surplus escapes.			
		In list of works in charge of the P.W.D.	In system.		Free.	Combined.	From combined catchment area.	From supply-channel.	Total discharge to be provided for.	Weirs.		By-passes.	
										Existing.	Existing plus proposed.	Existing.	Existing plus proposed.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
ISOLATED													
XI	Puntandam large tank ..	..	..	500	0.54	0.54	332	..	332	19	54½	..	..
XII	Nandambakkam tank ..	..	..	500	0.28	0.28	214	..	214	..	..	..	107
XIII	Minambakkam tank ..	..	..	500	0.32	0.32	234	..	234	90	90	..	..
XIV	Sennel tangal ..	..	..	500	0.04	0.04	58	..	58	..	..	Cut.	..
XV	Nallarkulam tangal ..	..	..	500	0.04	0.04	58	..	58	..	..	Cut.	..
XVI	Anakaputtur Kalmadugu tangal.	..	..	500	0.16	0.16	147	..	147	..	45	..	..
XVII	Taramani tangal ..	..	..	500	0.07	0.07	85	..	85	..	..	..	36½
XVIII	Ramapuram Palan tangal.	..	..	500	0.19	0.19	165	..	165	..	..	..	71
XIX	Do. Pada do.	..	..	500	0.09	0.09	100	..	100	..	..	50	50

* Vide remarks in

in the Adyar Minor Basin—cont.

Approximate capacity of tank at F.T.L.		Total annual storage required.	Standard data to be maintained.														Bench mark to which levels refer.
			Levels with reference to bench mark.				Level of top of revetment with reference to F.T.L.	Levels with reference to bench mark.									
			Full tank level.	Maximum water level.	Level of top of bund.			Sill of sluice No. 1.	Sill of sluice No. 2.	Sill of sluice No. 3.	Sill of sluice No. 4.	Crest of escape No. 1.	Crest of escape No. 2.	Crest of escape No. 3.			
					At centre.	At flanks.									+ Feet.		
Mill. cubic feet.	Mills. cubic feet.	17	18	19	20	21	22	23	24	25	26	27	28	29			

WORKS—cont.

7.14	14.28	47.85	49.35	53.85	53.85	..	37.88	..	..	..	47.85	47.85	..	..
2.99	7.47	47.00	48.00	52.50	52.50	..	38.11	..	..	..	47.00	..	..	..
2.74	10.96	38.50	39.50	44.00	44.00	..	33.22	32.17	..	..	38.50	..	..	..
0.19	0.95	35.00	36.00	38.00	38.00	..	..	..	..	..	..	..	..	..
0.41	1.23	29.50	30.50	33.50	32.50	..	..	..	..	..	..	..	..	..
1.93	5.79	42.50	43.50	46.50	46.50	..	36.25	..	..	..	42.50	..	..	..
0.11	0.56	10.00	11.00	14.00	14.00	..	6.24	..	..	..	10.00	..	..	..
1.04	4.16	40.50	41.50	44.50	44.50	..	36.99	36.50	..	..	40.50	..	..	..
0.25	1.25	39.00	40.00	43.00	43.00	..	35.00	37.00	..	..	39.00	..	..	..

the report, page 108.

ADYAR MINOR BASIN

(1)

Issued on 5th September 1923.

Page 25.

No. XIII. MINAMBAKKAM TANK.

In the statement of hydraulic particulars against the name of work omit the figures in columns 15, 16, 22 and 23 and insert 2.87, 11.48, 33.48 and 31.86 respectively.

MANIMANGALAM TANK GROUP.

Manimangalam Tank Sub-Group.

No. 1, IRRIGATION WORK.

MANIMANGALAM TANK.

PLATE II.

This work is in charge of the Public Works Department, and lies immediately south of the village of Manimangalam in Conjeeveram taluk, and is the terminal work of its group. In addition to the drainage from its free basin of 7.44 square miles, it receives the surplus of 57 upper tanks, and discharges into a tributary of the Adyar and into No. 1, Settipattu tangal (isolated work) over two calingulas, $70\frac{1}{2}$ and $31\frac{1}{2}$ feet long, placed at the right and left flanks, respectively. These being out of order and inadequate, will be improved into vented weirs (*vide* plate II, figs. 1 and 3) and supplemented by two weirs, 52 feet and 158 feet long, at the right and left flank ends, respectively (*vide* plate II, figs. 2 and 4). There are seven masonry and three pot-slucies. The masonry sluices require some slight repairs, and two new sluices will be built in place of the three pot-slucies (*vide* plate II, figs. 5 and 6). The bund will be made up to 6 feet above M.W.L. with 6 feet top width at the deepest part, and reduced to $4\frac{1}{2}$ feet and 3 feet above M.W.L., with top width $4\frac{1}{2}$ feet and 3 feet, respectively, towards the flanks, with slopes 2 to 1. The existing revetment where displaced will be repacked and raised to 2 feet above M.W.L. at the deepest part.

Manimangalam Tank Sub-Group.

No. 1-A, IRRIGATION WORK.

MELAKALANI TANGAL.

PLATE II.

This small tangal adjoins the Manimangalam tank to which it acts as an auxiliary work, and lies immediately west of Manimangalam village in Conjeeveram taluk. It receives its supply from sluice No. 5 of Manimangalam tank, and discharges into a tributary of the Adyar from its left flank by a 12-feet calingula. This calingula being out of order and beyond repair, will be replaced by a weir, 14 feet long, with an irrigation vent in the body wall (*vide* plate II, fig. 7). The tangal is provided with two sluices, both in a ruined condition, and these will be replaced by new ones (*vide* plate II, figs. 8 and 9). The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and side slopes $1\frac{1}{2}$ to 1.

ADYAR MINOR BASIN.

MANIMANGALAM TANK GROUP.

Manimangalam Tank Sub-Group.

No. 2, IRRIGATION WORK.

SIRUMATTUR SITTERI TANK.

PLATE II.

This rainfed tank lies immediately south-east of the village of Sirumattur in Conjeeveram taluk. It receives the drainage from a free basin of 0.3 square mile, and surpluses into No. 1, Manimangalam tank, from its right flank over natural ground, where it will be provided with a rough stone escape, 61.5 feet long. The tank has one existing irrigation sluice which is inefficient and will be dismantled; a new one will be built in its place (*vide* plate II, fig. 10). An additional sluice will be provided for irrigating high level fields (*vide* plate II, fig. 11). The bund being low will be made up to 3 feet above M.W.L., with a width of 3 feet and side slopes of $1\frac{1}{2}$ to 1.

Sirumattur Large Tank Sub-Group.

No. 3, IRRIGATION WORK.

SIRUMATTUR LARGE TANK.

PLATE III.

This tank lies to the west of the village of Sirumattur in Conjeeveram taluk. In addition to the drainage from a free basin of 0.92 square mile, it receives the surplus of No. 4, Reddi tangal, and No. 5, Kumman tangal of Salamangalam village, and discharges into No. 1, Manimangalam tank. It has no regular provision for surplus water, and will therefore be provided with a weir, $86\frac{1}{2}$ feet long (*vide* plate III, fig. 1), at the left flank. The existing sluice at the right flank is in good order. An additional sluice will be constructed at the left flank for irrigating high level fields (*vide* plate III, fig. 2). The bund being low will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, and reduced to 3 feet above M.W.L., and 3 feet top width towards the flanks with side slopes 2 to 1 and $1\frac{1}{2}$ to 1 in front and rear, respectively. The existing revetment where displaced will be repacked.

MANIMANGALAM TANK GROUP.

Sirumattur Large Tank Sub-Group.

No. 4, IRRIGATION WORK.

SALAMANGALAM REDDI TANGAL.

PLATE III.

THIS rainfed tangal lies about three furlongs north-east of the village of Salamangalam in Conjeeveram taluk. It receives the drainage from a free basin of 0.15 square mile and surpluses into No. 3, Sirumattur large tank, from its right flank through temporary cuts, for which a paved byewash, 60½ feet long, will be substituted. The tangal has no sluice, and a masonry sluice will therefore be built at the left flank with its sill 4 feet below F.T.L. (*vide* plate III, fig. 3). The bund is low, and will be made up to 3 feet above M.W.L. with top width 3 feet, and tapered towards the flanks with side slopes 1½ to 1.

Sirumattur Large Tank Sub-Group.

No. 5, IRRIGATION WORK.

SALAMANGALAM KUMMAN TANGAL.

PLATE III.

THIS rainfed tangal lies about one-eighth of a mile north of the village of Salamangalam in Conjeeveram taluk. It receives the drainage from a free catchment area of 0.16 square mile, and surpluses into No. 3, Sirumattur large tank, over natural ground at the left flank, where a paved byewash, 63½ feet long, will be constructed. Irrigation is carried on from cuts in the bund, and in place of these a masonry sluice will be built with sill 5 feet below F.T.L. (*vide* plate III, fig. 4). The bund is low and will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes 1½ to 1.

* MANIMANGALAM TANK GROUP.

Maganiyam Sitteri Sub-Group.

No. 6, IRRIGATION WORK.

MAGANIYAM SITTERI.

PLATE IV.

This work is in charge of the Public Works Department, and is situated about a quarter of a mile south of the village of Maganiyam in Conjeeveram taluk. In addition to the drainage from its free basin of 0.97 square mile, it receives the surplus of No. 7, Alagur large tank, and its three upper tanks. The tank surpluses into No. 6, Manimangalam tank, over a calingula 43 feet long at the left flank, and through cuts at either end of the bund. The calingula will be converted into a weir of the same length with four tambogies (*vide* plate IV, fig. 1), and as the water-way is insufficient, it will be supplemented by a paved byewash at the right flank. The tank has two sluices in fair order. A new sluice will be built at the right flank (*vide* plate IV, fig. 2), to irrigate high level fields. The bund is low and will be brought up to $4\frac{1}{2}$ feet above M.W.L. with top width $4\frac{1}{2}$ feet, reduced to 3 feet above M.W.L. and 3 feet top width towards the flanks, with side slopes $1\frac{1}{2}$ to 1. The existing revetment where displaced will be repacked, and raised to 1 foot above M.W.L. at centre, and to M.W.L. at the flanks.

Maganiyam Sitteri Sub-Group.

No. 7, IRRIGATION WORK.

ALAGUR LARGE TANK.

PLATE IV.

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ALAGUR LARGE TANK.

Enter, "4 feet in top", instead of, "3 feet in top", in line 10 of the memoir.

For 2 to 1 in front and $1\frac{1}{2}$ to 1 in rear in line 11 of the memoir read $1\frac{1}{2}$ to 1 in front and 2 to 1 in rear.

MANIMANGALAM TANK GROUP.

Maganiyam Sitteri Sub-Group.

No. 8, IRRIGATION WORK.

NARIYAMBAKKAM TANK.

PLATE IV.

THIS tank lies immediately south-west of the village of Nariyambakkam in Conjeeveram taluk. In addition to the drainage from its free basin of 0.31 square mile, it receives the surplus of No. 9, Kavalikalani Kalanjeri tangal, and No. 10, Sudal Kuttai. The tank surpluses into No. 7, Alagur Large tank, from an old calingula at its left flank; this being inefficient, will be dismantled, and a weir, $42\frac{1}{2}$ feet long, constructed in its place (*vide* plate IV, fig. 5). The tank has three masonry sluices, of which two are in good order requiring only petty repairs. The third being blocked up and never used will be dismantled, and a new high level sluice will be constructed towards the left flank (*vide* plate IV, fig. 6). The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and side slopes $1\frac{1}{2}$ to 1.

Maganiyam Sitteri Sub-Group.

No. 9, IRRIGATION WORK.

KAVALKALANI KALANJERI TANGAL.

PLATE IV.

THIS tangal lies about one-eighth of a mile north-east of the village of Kavalkalani in Conjeeveram taluk. Besides the drainage from its free basin 0.07 square mile, it receives the surplus of Sudal Kuttai, and discharges into No. 8, Nariyambakkam tank. The tank has no surplus work, and a rough stone escape, $44\frac{1}{2}$ feet long, will be constructed at the right flank. A masonry sluice will also be built near the right flank (*vide* plate IV, fig. 7). The bund, which is very low and weak, will be strengthened and made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1 and tapered towards the flanks.

MANIMANGALAM TANK GROUP.

Maganiyam Sitteri Sub-Group.

No. 10, IRRIGATION WORK.

SUDAL KUTTAL.

PLATE IV.

THIS rainfed tank lies to the south of Kavalkalani village in Conjeeveram taluk, and surpluses into No. 9, Kavalkalani Kalanjeri tangal, from its right flank. The tangal has no surplus work, and will be provided with a rough stone escape, 39 feet long, at the right flank. A new sluice will be built as there are at present no facilities for regulating the supply to the cultivation (*vide* plate IV, fig. 8). The bund being low will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Maganiyam Large Tank Sub-Group.

No. 11, IRRIGATION WORK.

MAGANIYAM LARGE TANK.

PLATE IV.

THIS tank lies about quarter of a mile to the west of the village of

(1)

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NO. 11, MAGANIYAM LARGE TANK.

For the sentence "There are . . . provided", in lines 7 and 8, substitute the following sentence:—

There are three sluices for irrigation in fair order and a fourth sluice will also be provided to irrigate 18 acres of high level lands.

MANIMANGALAM TANK GROUP.

Maganiyam Large Tank Sub-Group.

No. 12, IRRIGATION WORK.

ALAGUR TANGAL.

PLATE IV.

THIS tangal lies immediately west of the village of Alagur in Conjeeveram taluk. It has a small catchment basin of 0.09 square mile, and depends for its supply chiefly on the springs that lie above it. The tangal surpluses into No. 11, Maganiyam Large tank, over a natural ground escape at the left flank, which will be paved with rough stone at F.T.L. for $43\frac{1}{2}$ feet in length. The tank having no sluice will be provided with one (*vide* plate IV, fig. 10). The bund being low and weak will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1 and reduced towards the flanks.

Maganiyam Large Tank Sub-Group.

No. 13, IRRIGATION WORK.

PARACHERI TANGAL.

PLATE IV.

THIS tangal is situated immediately south-west of the village of Alagur in Conjeeveram taluk, and acts as an auxiliary work to No. 7, Alagur Large tank. The bed is shallow and the bund low, and it has neither sluice nor surplus escape. The work is not worth repairing, and hence was not taken up for investigation by the Tank Restoration Party.

Kunduperumbedu Komman Tangal Sub-Group.

No. 14, IRRIGATION WORK.

KUNDUPERUMBEDU KOMMAN TANGAL.

PLATE V.

THIS tangal is situated about quarter of a mile south-west of Nallamperumbedu village in Conjeeveram taluk. In addition to the drainage from its free basin of 0.09 square mile, it receives the surplus of No. 15, Nallamperumbedu tank, and discharges into a drainage stream which enters No. 1, Manimangalam tank, over natural ground at the left flank, where a rough stone byewash, 64 feet long, will be constructed. The existing sluice which is leaky will be thoroughly repaired. The bund is low, and will be made up to 3 feet above M.W.L., with 3 feet top width, tapering towards the flanks with side slopes $1\frac{1}{2}$ to 1.

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No. 12, ALAGUR TANGAL.

Delete the 4th sentence, *i.e.*, the 6th and 7th lines of the memoir and substitute the following:—

“There is only one sluice to command the whole ayacut. As this does not command the high level lands, an additional sluice will be provided.”

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No. 34. METTUPALAIYAM SITTERI.

In lines 4 and 5 of the memoir—

For "over natural ground . . . will be formed."*Read* "over a calingulah 18 feet long with crest one foot below F.T.L. having 5 vents each 3 feet wide and 6 dam stones each 6 inches square and top at F.T.L. at the left flank".*For* The third sentence of the memoir read the following:—*"Irrigation is at present carried on by two sluices"*.

PLATE V.

THIS tank is situated just to the south of Nallamperumbedu village in Conjeeveram taluk. It receives the drainage from its free basin of 0.11 square mile, and surpluses into No. 14, Kunduperumbedu Komman tangal, from its left flank over natural ground, where a rough stone byewash, 49½ feet long, will be provided. The existing sluice, which is blocked up and useless, will be replaced by a new one (*vide* plate V, fig. 1). The bund will be made up to 3 feet above M.W.L., with top width 3 feet tapering towards the flanks with side slopes 1½ to 1.

Manimangalam Tank Sub-Group.

No. 16, IRRIGATION WORK.

PERINJEMPAKKAM MADATTERI.

PLATE V.

THIS tank is situated about quarter of a mile, north-east of the village of Perinjempakkam in Conjeeveram taluk. The bund breached about fifty years ago, and the ayacut under the tank has ever since been irrigated by No. 22, Perinjempakkam tank. The surplus of No. 17, Kulankatcheri large tank and its four uplying works, pass through the breach in this tank into No. 1, Manimangalam tank. The work is not worth restoring, and hence was not taken up for investigation by the Tank Restoration Party.

Kulankatcheri Large Tank Sub-Group.

No. 17, IRRIGATION WORK.

KULANKATCHERI LARGE TANK.

PLATE V.

THIS tank is situated close to and south-east of the village of Kulankatcheri in Conjeeveram taluk. Besides the drainage from its free basin of 0.35 square mile, it receives the surplus of four uplying tanks, and discharges into No. 16, Perinjempakkam Madatteri, over an inadequate calingula, 25½ feet long, about the centre of the bund (*vide* plate V, fig. 2). This escape will be converted into a weir of the same length, and will be supplemented by a rough stone byewash, 45½ feet long at the right flank. The existing sluice requires some slight repairs, and a new sluice will be constructed to the left of it to irrigate high level fields. The bund will be made up to 3 feet above M.W.L., with 3 feet top width, and slopes 1½ to 1, tapering towards the flanks. The existing revetment where displaced will be repacked and raised to M.W.L.

MANIMANGALAM TANK GROUP.

Kulankatcheri Large Tank Sub-Group.

No. 18, IRRIGATION WORK.

KULANKATCHERI TANGAL.

PLATE V.

THIS tangal is situated about half a mile south-east of Kulankatcheri village in Conjeeveram taluk. It receives the drainage from its free basin of 0.05 square mile, and surpluses from its left flank over a natural ground escape 24½ feet long into No. 17 Kulankatcheri large tank. The tank has no irrigation sluice at present, and a new sluice will be provided at about the centre of the bund (*vide* plate V, fig. 3). The bund will be made up to 3 feet above M.W.L., with top width 3 feet and slopes 1½ to 1, tapering towards the flanks.

Kulankatcheri Large Tank Sub-Group.

No. 19, IRRIGATION WORK.

KAVALKALANI PUDU TANGAL.

PLATE V.

THIS tangal is situated close to the Kavalkalani village in Conjeeveram taluk. It receives the drainage from its free basin of 0.05 square mile, and surpluses into No. 17, Kulankatcheri large tank through temporary cuts in the bund, instead of which a rough stone byewash, 18¾ feet long, will be provided at the right flank. The existing sluice is in fair order, but needs to have its tunnel in rear lengthened. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes 1½ to 1, tapering towards the flanks.

Kulankatcheri Large Tank Sub-Group.

No. 20, IRRIGATION WORK.

KAVALKALANI TANK.

PLATE V.

THIS tank is situated about half a mile south-west of the village of Kavalkalani in Conjeeveram taluk. It receives the drainage from its free catchment area of 0.1 square mile, besides the surplus from No. 21, Karanai tangal tank, and discharges into No. 17, Kulankatcheri large tank, from its left flank, over a natural ground escape 50 feet long, which being inadequate will be extended to 67¾ feet and surface paved. The existing sluice is in fair order. The bund is in good order, but wherever low, it will be made up to 3 feet above M.W.L., with 3 feet top width and slopes 1½ to 1, tapering towards the flanks.

MANIMANGALAM TANK GROUP.

Kulankatcheri Large Tank Sub-Group.

No. 21, IRRIGATION WORK.

KARANAI TANGAL TANK.

PLATE V.

THIS tank is situated immediately west of Karanai Tungal village in Conjeeveram taluk. It receives the drainage from its free basin of 0.12 square mile, and discharges its surplus from its left flank over a natural byewash $28\frac{1}{2}$ feet long, which being inadequate will be extended to have a total length of $52\frac{1}{2}$ feet. Irrigation is being carried out by cuts in the bund, and in place of these, a masonry sluice will be provided (*vide* plate V, fig. 4). The bund is low, and will be brought up to 3 feet above M.W.L., with 3 feet top width and side slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

Perinjempakkam Tank Sub-Group.

No. 22, IRRIGATION WORK.

PERINJEMPAKKAM TANK.

PLATE VI.

THIS work is in charge of the Public Works Department, and is situated about a quarter of a mile south-west of Perinjempakkam village in Conjeeveram taluk. In addition to the drainage from its free basin of 0.62 square mile, it receives the surplus of No. 23, Vaippur sitteri zemin tank, and discharges from its left flank into a drainage stream which enters No. 1, Manimangalam tank. The existing calingula which is in a completely ruined state will be dismantled and the site bunded up, while a rough stone byewash, 95 feet long, will be constructed about 1,000 feet to the left of it. There are two sluices in the tank, of which No. 1 from the right flank is in fair order; No. 2 which is badly damaged will be thoroughly repaired. A new sluice for the irrigation of some high level fields, will be provided about 100 feet to the right of the old calingula site (*vide* plate VI, fig. 1). The bund is low, and will be made up to $4\frac{1}{2}$ feet above M.W.L., with top width $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks. The revetment where displaced will be repacked.

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After the word "provided" in the third sentence of the memo in line 7 insert the following:—
"and a pot sluice on either flank to irrigate 10 acres of lands."

MANIMANGALAM TANK GROUP.

Perinjempakkam Tank Sub-Group.

No. 23, IRRIGATION WORK.

VAIPPUR SITTERI.

PLATE VI.

THIS being a private work was not investigated by the Tank Restoration Party beyond being grouped.

Eraiur Large Tank Sub-Group.

No. 24, IRRIGATION WORK — ERAIYUR LARGE TANK.

No. 25, DO. VAIPPUR LARGE TANK.

PLATE I.

THESE being private works were not investigated by the Tank Restoration party beyond being grouped.

Kunduperumbedu Tank Sub-Group.

No. 26, IRRIGATION WORK.

KUNDUPERUMBEDU TANK.

PLATE VI.

THIS work is in charge of the Public Works Department, and is situated close to the village of Kunduperumbedu in Conjeeveram taluk. It receives the drainage from its free basin of 2.86 square miles, besides the surplus of 29 uplying tanks, and discharges into a drainage stream which flows into No. 1, Manimangalam tank, over a calingula, 57 feet long, at the left flank. This escape being inadequate and out of order will be converted into a weir of the same length, with 6 tambogies 3 feet $\times$ 2½ feet each (*vide* plate VI, fig. 2), and supplemented by a grass-planted escape 740 feet long at the right flank. Irrigation is carried on from three masonry sluices, of which Nos. 1 and 3 are in fair order, and No. 2 is damaged beyond repair. It will be replaced by a new sluice (*vide* plate VI, fig. 3). The bund is low, and will be made up to 6 feet above M.W.L. with 6 feet top width at centre, reduced to 4½ and 3 feet above M.W.L., with 4½ feet and 3 feet top widths, respectively, towards the flanks. The existing revetment wherever displaced will be repacked.

MANIMANGALAM TANK GROUP.

Kunduperumbedu Tank Sub-Group.

No. 27, IRRIGATION WORK.

ERAIYUR THEVALERI.

PLATE VI.

This being private work was not investigated by the Tank Restoration Party beyond being grouped.

Kunduperumbedu Tank Sub-Group.

No. 28, IRRIGATION WORK.

MATTUR TANK

ATE VI.

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No. 28, MATTUR TANK.

From lines 6 to 11 of the memoir.

For "Calingulahs having an aggregate length of 60 feet . . . top width 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks."

Read "Two weirs 33' and 27' long at the left and right flanks respectively. The two existing sluices will be provided with tower heads. The bund will be made up to 3 feet above M.W.L. with top width 4 feet and slopes $1\frac{1}{2}$ to 1 tapering towards the flanks. The inner face of the bund is protected with revetment in the middle for a length of 2,000 feet."

No. 29, IRRIGATION WORK.

MATTUR SITTERI.

PLATE VI.

This rainfed tank is situated about a mile south-east of Mattur village in Conjeeveram taluk. It receives the drainage from its free basin of 0.15 square mile, and surpluses into No. 28, Mattur tank, over a natural ground escape 20 feet long at the right flank. This escape being inadequate will be widened to 60 feet, and the whole length paved with rough stone. Irrigation is carried on through temporary cuts, in place of which a masonry sluice will be provided at the right flank (*vide* plate VI, fig. 6). The bund will be made up to 3 feet above M.W.L., with top width 3 feet and side slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

MANIMANGALAM TANK GROUP.

Kunduperumbedu Tank Sub-Group.

No. 30, Irrigation Work—Jamunampattu Large Tank.

No. 31, Do. Vallakottai Maveri.

PLATE VI.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

Kunduperumbedu Tank Sub-Group.

No. 32, IRRIGATION WORK.

BUDERI.

PLATE VI.

THIS tank lies about a quarter of a mile east of Méttupálayam village in Conjeeveram taluk. Besides the drainage from its free basin of 0.24 square mile, it receives the surplus of No. 33, Bokkanna tangal, and surpluses into No. 31, Vallakottai Maveri zemin tank, through a temporary cut at the right flank, where a paved byewash 56 feet long will be provided. The two existing pot sluices will be blocked up, and a masonry sluice provided instead. The bund will be made up to 3 feet above M.W.L., with top width 3 feet and slopes $1\frac{1}{2}$ to 1.

Kunduperumbedu Tank Sub-Group.

No. 33, IRRIGATION WORK.

BOKKANNA TANGAL.

PLATE VI.

THIS rainfed tank is situated close to the village of Méttupálayam in Conjeeveram taluk. It receives the drainage from its free basin of 0.15 square mile, and surpluses into No. 32, Buderu tank, through temporary cuts at its right flank, where a rough stone byewash 33 feet long will be provided. The existing pot sluice will be removed, and a masonry one constructed instead at the same site. The bund is low and will be made up to 3 feet above M.W.L., with top width 3 feet and slopes $1\frac{1}{2}$ to 1.

Issued on 30th September 1924.

Original edition.

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Revised edition.

Kunduperumbedu Tank Sub-Group.

No. 34, IRRIGATION WORK.

METTUPALAIYAM SITTERI.

PLATE VI.

THIS rainfed tank is situated immediately north-east of the village of Méttupálaiyam in Conjeeveram taluk. It receives the drainage from a free catchment of 0.25 square mile, and discharge its surplus into No. 34, Méttupálaiyam Sitteri, over natural ground from its left flank, where a rough stone byewash, $46\frac{1}{2}$ feet long, will be formed. The two existing pot sluices which are out of order will be removed, and replaced by a masonry sluice (*vide* plate VI, fig. 7), to command the whole ayacut. The bund will be made up to 3 feet above M.W.L., with top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Kunduperumbedu Tank Sub-Group.

No. 35, Irrigation Work—	Vallakottai Alleri.
No. 36, Do.	Vallakottai Sundaleri.
No. 37, Do.	Vallam Sitteri.
No. 38, Do.	Karanapattu Tank.
No. 39, Do.	Periyan Tangal Tank.
No. 40, Do.	Vallam Tank.
No. 41, Do.	Balanallur Tumpa Tangal.
No. 42, Do.	Balanallur Large Tank.
No. 43, Do.	Papukana Tangal.

PLATE VI.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

MANIMANGALAM TANK GROUP.

Kunduperumbedu Tank Sub-Group.

No. 44, IRRIGATION WORK.

VALATANCHERI TANK.

PLATE VI.

THIS tank is situated about 2 furlongs west of the village of Valatancheri in Conjeeveram taluk. In addition to the drainage from its free basin of 0.57 square mile, it receives about one-fourth the quantity of No. 40, Vallam tank surplus, viz., 184 cubic feet per second, and discharges into No. 26, Kunduperumbedu tank, at its right flank over a calingula which is completely out of order. This escape will be closed and a flush-crested escape, 129 feet long, will be constructed about 650 feet to the right of it (*vide* plate VI, fig. 8). The two existing sluices are damaged beyond repair, and will be replaced by new barrel sluices (*vide* plate VI, figs. 9 and 11). Another sluice will be built about 100 feet to the left of the old escape in place of the irrigation vent that existed in the calingula (*vide* plate VI, fig. 10). The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with top width of $4\frac{1}{2}$ feet, tapering towards the flanks, with side slopes of $1\frac{1}{2}$ to 1.

Kunduperumbedu Tank Sub-Group.

NO. 45, IRRIGATION WORK—TATTANUR TANK.

NO. 46, DO. ODDAI TANGAL.

PLATE VI.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

Kunduperumbedu Tank Sub-Group.

No. 47, IRRIGATION WORK.

SIRUKALATTUR TANK.

PLATE VI.

THIS tank is situated about a quarter of a mile north of Vadakal village in Conjeeveram taluk. Besides the drainage from its free basin of 0.44 square mile, it receives the surplus of three uplying zemin tanks and discharges from both flanks into No. 46, Oddai tangal, over natural ground which is much eroded. To secure the F.T.L. two rough stone byewashes each 82 feet long will be constructed in place of the old escapes. Irrigation is carried on through temporary cuts in the bund, and in place of these a masonry sluice will be provided near the left flank (*vide* plate VI, fig. 12). The bund is low, and will be made up to 3 feet above M.W.L., with top width 3 feet, and slopes $1\frac{1}{2}$ to 1.

MANIMANGALAM TANK GROUP.

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PAGE

40

NO. 47, SIRUKALATHUR.

Omit the memoir under the tank and substitute the following fresh memoir. This cancels the previous addendum No. 3.

NO. 47, SIRUKALATHUR TANK.

THIS tank is situated about two furlongs to the north of Vadakal village zamin in the Conjeeveram taluk. It receives the drainage from its free basin, besides the surplus of three upper tanks, and surpluses into No. 46, Oddai tangal, at the left flank over a masonry weir 65 feet long. The bund from the left flank from 130 feet to the left of weir for a total length of 1,950 feet will be made up, of which the first 200 feet and the last 70 feet will be 2 feet above M.W.L. with top width 4 feet, while the intervening length will be 3 feet above M.W.L. with top width 4 feet. The slopes will be $1\frac{1}{2}$ to 1 both in front and in rear. The slopes will be turfed. Irrigation is carried on by a masonry sluice and an earthenware pipe sluice.

F.T.L. has been fixed by the Revenue Department at + 47.95, which is about half a foot above the level fixed by the Tank Restoration Scheme, and it has been approved by the Collector of Chingleput.

STANDARD TO BE MAINTAINED.

F.T.L.	...	47.95 ft.
M.W.L.	...	49.45 "
Top of bund	...	52.45 "
Top width	...	4 "
Side slopes	...	$1\frac{1}{2}$ to 1 "

MAXIMUM DISCHARGE TO BE PROVIDED FOR.

Co-efficients, $C = 500$; $c = 100$	
Area of free basin	0.44 sq. mile.
Number of tanks above	3
Combined catchment area	0.81 sq. mile.
Maximum discharge from combined catchment area	383 c. ft.
Maximum discharge from channel	Nil.
Total discharge to be provided for	383 c. ft.

SURPLUS ARRANGEMENTS.

Effective length of masonry escapes	60 ft.
Proposed additional length of masonry escapes	5 "
Discharge over total length	397 c. ft.
Total maximum discharge provided for	397 "

DETAILS OF STORAGE.

Area of waterspread at F.T.L.	1.70 mills. sq. ft.
Maximum width of waterspread at F.T.L.	6.00 " "
Capacity of tank at F.T.L.	4.50 " c. ft.
Total annual storage	9.00 " "

DETAILS OF IRRIGATION.

Ayacut area	70 acres.
Proposed ultimate area	70 "
Water stored per acre	0.13 mill. c. ft.

LEVELS OF SLUICES.

Sill of sluice No. 1 pipe sluice from the left flank	40.00 ft.
Sill of sluice No. 2 from the left flank	42.20 "

(Signed) M. R. KHAREGAT,
for Chief Engineer for Irrigation,
Tank Restoration Scheme.

No. 1. PADAPPAL TANK (No. 338 in P.W.D. List).

Delete the whole memoir and substitute the following:—

This work in charge of the Public Works Department is the terminal tank of the group of its name and is situated immediately south-west of the village of Padappal in Sriperumbudur taluk. It receives for its supply the drainage from its free catchment area of 1.64 square miles besides the surplus of four upper tanks and it discharges from its right flank into a tributary of the Adyar over a weir 22 feet 6 inches long, calingulah 32 feet 9 inches long, with the top of rail at F.T.L. and crest of body wall at + 41.12 and a weir 67 feet long.

Irrigation is carried on by three masonry sluices all in good condition. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L. with $4\frac{1}{2}$ feet top width at centre reduced to 3 feet above M.W.L. and 3 feet top width at flanks with $1\frac{1}{2}$ to 1 slopes throughout. The front slope of bund is revetted to a length of 4,450 feet.

Standard to be maintained.

F.T.L.	...	...	...	...	42.62 feet.
M.W.L.	...	...	...	...	44.12 "
Top of bund	...	...	...	...	48.62 "
Top width	...	...	...	...	$4\frac{1}{2}$ "
Side slopes	...	...	...	...	$1\frac{1}{2}$ to 1 "

Bench marks.

I. B.M.	...	...	...	...	...
II. B.M. on cut stone fixed at centre of body wall of weir No. 3	...	...	...	...	42.62
Datum. M.S.L.	...	...	...	...	...

Maximum discharge to be provided for.

Co-efficients	...	...	...	...	C = 500; c. = 100
Area of free basin	...	...	...	...	1.64 square miles.
Combined catchment area	...	...	...	...	3.37 do.
Maximum discharge from combined catchment area	...	...	...	...	979 cusecs.
Total discharge to be provided for	...	...	...	...	979 do.

3

Surplus arrangements.

Effective length of masonry weirs	...	...	...	$22\frac{1}{2}' + 67' = 89\frac{1}{2}$ feet.
Discharge over weirs	...	...	...	$124 + 368 = 492$ cusecs.
Effective length of calingulah	...	...	...	$32' - 9" = 31' 3"$
Discharge over do.	...	...	...	543 cusecs.
Total maximum discharge provided for	...	...	...	1,035 cusecs.

Details of storage.

Area of waterspread at F.T.L.	...	...	...	9.98 mills cubic feet
Capacity of tank at F.T.L.	...	...	...	35.12 mill. cubic feet.
Total annual storage	...	...	...	69.86 "

Details of Irrigation.

Ayacut area	...	...	...	404 acres.
Average cultivation	...	...	...	387 "
Proposed ultimate area	...	...	...	404 "
Water stored per acre	...	...	...	0.17 mill. cubic feet.

Levels of Sluices.

Sill of sluice No. 1 from left flank	...	...	...	36.50
Do. No. 2 do.	...	...	...	32.95
Do. No. 3 do.	...	...	...	33.73

NOTE.—Necessary corrections should be made in the statement of hydraulic details on pages 16 and 17.

MANIMANGALAM TANK GROUP.

Kunduperumbedu Tank Sub-Group.

No. 48, Irrigation Work—Vadakkal Vannan Tangal.	
No. 49, Do. Pettunayakkan Tangal.	
No. 50, Do. Oddan Tangal.	
No. 51, Do. Kannan Tangal Large Tank.	
No. 52, Do. Nallatanni Tangal.	
No. 53, Do. Maun Tangal.	
No. 54, Do. Kannantangal Tangal.	

PLATE VI.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

Kunduperumbedu Tank Sub-Group.

No. 55, IRRIGATION WORK.

KUNDUPERUMBEDU RAJA TANGAL.

PLATE VI.

THIS tangal is situated about half a mile west of Kunduperumbedu village in Conjeeveram taluk. It receives the drainage from a small free catchment area of 0.03 square mile, and surpluses into No. 26, Kunduperumbedu tank, over a natural byewash 21 feet long at the left flank. The byewash will be paved with rough stone, and rivetted on each side. In place of the existing cut for irrigation a pot sluice will be provided. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Manimangalam Tank Sub-Group.

No. 56, IRRIGATION WORK.

KUNDUPERUMBEDU REDDI TANGAL.

PLATE II.

THIS tangal is situated about a furlong north of Kunduperumbedu village in Conjeeveram taluk. It receives the drainage from a free catchment area of 0.04 square mile, besides the surplus of No. 57, Kunduperumbedu Vannan tangal, and discharges into No. 1, Manimangalam tank, over natural ground from its right flank, where a rough stone byewash 49 feet long will be formed. Irrigation is being managed by temporary cuts in the bund, and instead of these a masonry sluice will be provided (*vide* plate II, fig. 12). The bund will be made up to 3 feet above M.W.L., with top width of 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

MANIMANGALAM TANK GROUP.

Manimangalam Tank Sub-Group.

No. 57, IRRIGATION WORK.

KUNDUPERUMBEDU VANNAN
TANGAL.

PLATE II.

THIS rainfed tank is situated immediately north of Kunduperumbedu village in Conjeeveram taluk. It receives for its supply the rainfall from its free catchment area of 0.1 square mile, and surpluses into No. 56, Kunduperumbedu Reddi tangal, through a cut at its right flank, where a rough stone byewash $46\frac{1}{2}$ feet will be formed. The existing pot sluice is sufficient for the irrigation. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the left flank.

MALAIPPATTU TANK GROUP.

Malaippattu Tank Sub-Group.

No. 1, IRRIGATION WORK.

MALAIPPATTU TANK.

PLATE VII.

THIS work which is the terminal tank of the group of its name, is in charge of the Public Works Department, and is situated about a furlong north-west of Malaippattu village in Conjeeveram taluk. It receives the drainage from its free basin of 1.39 square miles, besides the surplus of four uplying tanks, and discharges into a tributary of the Adyar over a road dam 500 feet long at the left flank, built on the road from Manimangalam to Sriperumbudur, which passes in rear of the bund. A portion of the apron and body wall of the dam is damaged, for the repair of which the Local Fund Department is responsible. The existing sluice is in fair order. The bund is generally in good order throughout, and wherever low will be brought up to $4\frac{1}{2}$ feet above M.W.L., with top width $4\frac{1}{2}$ feet and side slopes $1\frac{1}{2}$ to 1.

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No. 1, MALAIPPATTU TANK.

In line 12 of the memoir, for " $4\frac{1}{2}$ feet above M.W.L." read "
feet above M.W.L."

MALAIPPATTU TANK GROUP.

Malaippattu Tank Sub-Group.

No. 2, IRRIGATION WORK.

VELLARAI TANK.

PLATE VII.

THIS work is in charge of the Public Works Department, and is situated close to the village of Vellarai in Conjeeveram taluk. It receives the rainfall from its free basin of 0.77 square mile, besides the surplus of three uplying tanks, and discharges into No. 1, Malaippattu tank, over a calingula at the left flank, which being damaged beyond repairs will be closed, and a flush-crested escape 212 feet long constructed to the right of it (*vide* plate VII, fig. 1). Irrigation is managed by three masonry sluices, of which sluice No. 1 being out of order will be replaced by a new one (*vide* plate VII, fig. 2). Sluices Nos. 2 and 3 are in fair order. The bund is low and will be brought up to $4\frac{1}{2}$ feet above M.W.L., with top width $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks. The existing revetment where displaced will be repacked.

Malaippattu Tank Sub-Group.

No. 3, Irrigation Work—Ottankaranai Tank.

No. 4, Do. Ottankaranai Tangal.

PLATE VII.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

Malaippattu Tank Sub-Group.

No. 5, IRRIGATION WORK.

NAVALUR LARGE TANK.

PLATE VII.

THIS work is in charge of the Public Works Department, and is situated close to the village of Navalur in Conjeeveram taluk. It receives the drainage from its free basin of 2.05 square miles, and discharges its surplus into No. 2, Vellarai tank, through temporary cuts in the bund for which a weir at the right flank 70 feet long with six vents 3.5 feet $\times$ 1.4 feet each will be substituted (*vide* plate VII, fig. 3). The two existing masonry sluices will be repaired. The bund is low and weak, which will be made up to $4\frac{1}{2}$ feet above M.W.L., with $4\frac{1}{2}$ feet top width, reduced to 3 feet above M.W.L., and 3 feet top width towards the flanks, with slopes $1\frac{1}{2}$ to 1.

PILLAPAKKAM TANK GROUP.

Pillapakkam Tank Sub-Group.

No. 1, IRRIGATION WORK.

PILLAPAKKAM TANK.

PLATE VIII.

THIS tank is the terminal work of the group of its name, lying immediately south-west of the village of Pillapakkam in Conjeeveram taluk, and belongs to the Pálár Anicut system. Besides the drainage from its free basin of 3.82 square miles, it receives the surplus of fifteen uplying tanks, and a supply of about 196 cubic feet per second from Kambakal channel (which offtakes from the Pálár river) through No. 4, Pondur Buderu tank. It surpluses over two weirs 88 feet and 100 feet long at the right and left flanks, respectively; the escape at the right end being completely out of order will be closed, and a new masonry weir 216 feet long with crest 6 inches above F.T.L., will be constructed at the left end (*vide* plate VIII, fig. 1). The existing left flank weir which is a little damaged will be repaired (*vide* plate VIII, fig. 2). There are five sluices for irrigation, of which No. 1 is in fair order, while the remaining four require repairs. The bund will be made up to 6 feet above M.W.L., with 6 feet top width, reduced to 4½ feet above M.W.L. and 4½ feet top width towards the flanks, with slopes 1½ to 1. The existing revetment where displaced will be repacked, and the whole raised to M.W.L. The tank surpluses into the Choudry Kal.

Pillapakkam Tank Sub-Group.

No. 2, IRRIGATION WORK.

PONDUR ODDA TANGAL.

PLATE VIII.

THIS tangal is situated about three-fourths of a mile south-east of the village of Pondur in Conjeeveram taluk. It receives the drainage from its free basin of 0.09 square mile, besides the surplus of No. 3, Pondur Sitteri, and discharges into No. 1, Pillapakkam tank. The tank has no surplus work and sluice for irrigation at present. A rough stone byewash 52 feet long will be provided at the right flank, and a masonry sluice at about the centre of the bund. The bund is low and will be made up to 3 feet above M.W.L., with top width 3 feet and slopes 1½ to 1.

PILLAPAKKAM TANK GROUP.

Pillapakkam Tank Sub-Group.

No. 3, IRRIGATION WORK.

PONDUR SITTERI.

II.

(1)

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No. 3, PONDUR SITTERI.

Omit the portion of the second sentence of the memoir *after* the word "over" from lines 4 to 6 and *substitute* the following in its place "a paved byewash $52\frac{1}{2}$ feet long which being partly washed away and scoured out will be replaced by a masonry weir 37 feet long to discharge the maximum flood with a head of $1\frac{1}{2}$ feet".

Pondur Buder Tank Sub-Group.

No. 4, IRRIGATION WORK.

PONDUR BUDERI TANK.

PLATE VIII.

THIS work is in charge of the Public Works Department and is situated about $\frac{3}{4}$ of a mile north of Pondur village in Conjeeveram taluk. In addition to the drainage from its free basin of 0.92 square mile, it receives the surplus of seven uplying tanks, and a supply of about 196 cubic feet per second from the surplus of Kambakal. It surpluses through a breach, 64 feet long, at about the centre of the bund, which being objectionable will be closed, and a masonry flush crested escape, $168\frac{1}{2}$ feet long, will be provided at the right flank (*vide* plate VIII, fig. 3). Irrigation is carried on through temporary cuts in the bund, and in place of these a masonry sluice will be constructed (*vide* plate VIII, fig. 4). The bund is very low, and will be brought up to $4\frac{1}{2}$ feet above M.W.L., with top width $4\frac{1}{2}$ feet at centre, reduced in section towards the flanks to 3 feet above M.W.L., with 3 feet top width, and sloped off to meet the ground level, the side slopes being $1\frac{1}{2}$ to 1 throughout.

PILLAPAKKAM TANK GROUP.

*Pondur Buder Tank Sub-Group.***No. 5, IRRIGATION WORK.****PONDUR LARGE TANK.**

PLATE VIII.

THIS tank is situated immediately north-west of Pondur village in Conjeeveram taluk. Besides the drainage from its free catchment of 0.9 square mile, it receives the surplus of five upper tanks and discharges into No. 4, Pondur Buder tank, from its left flank over a natural ground escape, 60 feet long, which being inefficient and inadequate a masonry weir, 93 feet long, will be substituted at the site (*vide* plate VIII, fig. 5). There are two masonry sluices for irrigation, of which sluice No. 1 from the left flank is in fair order; sluice No. 2 is completely useless and will be replaced by a new one. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet, tapering towards the flanks with side slopes of $1\frac{1}{2}$ to 1. The existing revetment will be repacked and raised to M.W.L.

*Pondur Buder Tank Sub-Group.***No. 6, IRRIGATION WORK.****ARANERI LARGE TANK.**

PLATE VIII.

THIS tank is situated immediately south-east of the village of Araneri in Conjeeveram taluk. It receives for its supply the rainfall from its free basin of 1.11 square miles, besides the surplus of four upper tanks, and discharges from its right flank into No. 5, Pondur Large tank, over natural ground, which arrangement being inefficient a masonry weir, 93 feet long (*vide* plate VIII, fig. 6) will be provided at the site. Irrigation is carried on by a masonry and a pot sluice, both of which being in a ruined state will be replaced by two masonry sluices. The bund is low, and will be brought up to $4\frac{1}{2}$ feet above M.W.L., with top width of $4\frac{1}{2}$ feet and side slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

*Pondur Buder Tank Sub-Group.***No. 7, Irrigation Work—Salayanur Sitteri.****No. 8, Do. Salayanur Tank.**

PLATE VIII.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

PILLAPAKKAM TANK GROUP.

Pondur Buder Tank Sub-Group.

No. 9, IRRIGATION WORK.

SIRUMANKADU TANGAL.

PLATE VIII.

This tank is situated about $2\frac{1}{2}$ furlongs north of Sirumankadu village in Conjeeveram taluk. It receives the drainage from its free basin of 0.15 square mile, and surpluses into No. 8, Salayanur Zemin tank, from its left flank over natural ground, where a paved byewash, 61 feet long, will be formed. The existing sluice is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet, and slopes $1\frac{1}{2}$ to 1. The revetment which has been done for a short distance is in fair order.

Pondur Buder Tank Sub-Group.

No. 10, IRRIGATION WORK.

ARANERI NAGA TANGAL.

PLATES VIII & IX.

This tank is situated about $\frac{3}{4}$ of a mile south-west of Araneri village in Conjeeveram taluk. It receives the drainage from its free basin 0.16 square mile, and surpluses into No. 6, Araneri Large tank, from its right flank over natural ground; as this will not stand the scour, a masonry weir, 25 feet long, will be constructed at the site (*vide* plate IX, fig. 8). The existing pot sluice will be replaced by a masonry one. The bund will be made up to 3 feet above M.W.L., with 3 feet top width and side slopes $1\frac{1}{2}$ to 1, falling to $1\frac{1}{2}$ feet above M.W.L. towards the flanks.

Pondur Buder Tank Sub-Group.

No. 11, IRRIGATION WORK.

IRUNKULAM

(3)

Page 47.

No. 11, IRUNKULAM.

Omit the portion of the second sentence in lines 3 to 6 "at its right flank through a cut into No. 4, formed alongside of it" and *substitute* the following "over a natural escape, 16 feet long, at the left flank where a laterite stone byewash, $34\frac{1}{2}$ feet long, will be constructed."

For "top width 3 feet" in the last line *read* "top width 4 feet."

PILLAPAKKAM TANK GROUP.

Pondur Buder Tank Sub-Group.

No. 12, Irrigation Work—Mambakkam Tank (Palar Anicut System).

No. 13, Do. Mambakkam Sitteri.

PLATE VIII.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

Pondur Buder Tank Sub-Group.

No. 14, IRRIGATION WORK.

TIRUMANGALAM TANK.

PLATES VIII & IX

ADYAR MINOR BASIN.

(1)

Issued on 19th September 1923.

Page 48, First Edition.

Page 38, Second Edition.

No. 14, TIRUMANGALAM TANK.

In the third sentence of the memoir for 'over an escape . . . below F.T.L.' read 'over a weir 34' long and through a natural cut 45' long at the right flank'.

brought up to $4\frac{1}{2}$ feet above M.W.L., with $4\frac{1}{2}$ feet top width and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks. The existing revetment is in fair order.

Pillapakkam Tank Sub-Group.

No. 15, IRRIGATION WORK.

PONDUR VUTTUKUTTAI TANGAL.

PLATES VIII & IX.

THIS tangel is situated about a mile north-east of Pondur village in Conjeeveram taluk. It receives the drainage from its free basin of 0.09 square mile, and surpluses into No. 1 Pillapakkam tank through cuts in the bund, which are unsuitable, and a paved byewash, 43 feet long, will therefore be formed at the right flank. Irrigation is carried on through cuts in the bund, and instead of these a masonry sluice will be provided (*vide* plate IX, fig. 11). The bund is low, and will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

PILLAPAKKAM TANK GROUP.

Pillapakkam Tank Sub-Group.

No. 16, IRRIGATION WORK.

KACHUPATTU TANGAL.

PLATE VIII.

This tangal is situated about $\frac{3}{4}$ of a mile north-west of the village of Pillapakkam in Conjeeveram taluk, and belongs to the Pálár anicut system. It receives the drainage from its free basin of 0.17 square mile, and surpluses into No. 1, Pillapakkam tank, at both flanks through cuts in the bund. The cut at the left flank will be closed, and a rough stone byewash, 66 feet long, will replace the cut at the right flank. The existing masonry sluice is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet, and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

KOLATTUR TANK GROUP.

Kolattur Tank Sub-Group.

No. 1, IRRIGATION WORK.

KOLATTUR TANK.

PLATE X.

This work in charge of the Public Works Department is situated close to the village of Kolattur in Conjeeveram taluk. In addition to the drainage from its free catchment area of 1.24 square miles, it receives the surplus of the tank.

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NO. 1, KOLATTUR TANK.

Omit the fifth sentence of the memoir in lines 9 to 12 and substitute the following sentence:—There are 3 masonry sluices and a cement pipe sluice for irrigation of which sluices Nos. 2 and 4 are in good order. Sluice No. 1 will be provided with a tower head for easy regulation. Sluice No. 3 is damaged beyond repairs and will be reconstructed.

KOLATTUR TANK GROUP.

Kolattur Tank Sub-Group.

No. 2, IRRIGATION WORK.

NAVALUR TANGAL.

(2)

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No. 2, NAVALUR TANGAL.

Omit the last sentence of the memoir in lines 7 and 8 and substitute the following:—"The bund will be made up to 3 feet above M.W.L. with top width 4 feet and slopes $1\frac{1}{2}$ to 1 in front and 2 to 1 in rear".

NO. 2, NAVALUR TANGAL.

Omit the last but one sentence 'The damaged portion repaired' and insert the following:—"Irrigation is carried on by two masonry sluices".

Kolattur Tank Sub-Group.

No. 3, IRRIGATION WORK.

NALLATANNI TANGAL.

PLATE X.

This tangal is situated close to the village of Venkadu in Conjeeveram taluk. It receives the drainage from its free catchment area of 0.03 square mile, and surpluses into No. 1, Kolattur tank, through temporary cuts in the bund, which being unsatisfactory, a rough stone byewash, 21 feet long, will be provided at the right flank. Irrigation is managed by cuts in the bund, and in place of these a cheap masonry sluice will be provided (*vide* plate X, fig. 3). The bund will be made up to 3 feet above M.W.L., with 3 feet top width and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

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KARUNAGARACHERI TANK GROUP.

Karunagaracheri Tank Sub-Group.

No. 1, IRRIGATION WORK.

KARUNAGARACHERI TANK.

PLATE X.

This tank is situated immediately west of the village of Karunagaracheri in Conjeeveram taluk, and is separated from No. 1 A, Karunagaracheri Achukattu Tangal by a cross bund. It receives for its supply the drainage from its free basin of 0.57 square mile, besides the surplus of No. 2 Then Tangal, and portion of the surplus of Nos. 3, 4 and 5, irrigation works, and discharges into a tributary of the Adyar river through a cut at the left end, where a rough stone byewash, $160\frac{1}{4}$ feet long, will be provided. The existing masonry sluice for irrigation is in fair order. A pot sluice will be provided at the end of the cross bund to let in a supply into No. 1 A, Achukattu Tangal, which assists in irrigating a portion of the tank ayaicut. The bund (including the cross bund) will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Karunagaracheri Tank Sub-Group.

No. 1 A, IRRIGATION WORK.

PLATE X.

This tangal is situated about $1\frac{1}{2}$ furlongs south-west of the village of Karunagaracheri, and adjoins No. 1, Karunagaracheri tank, to which it forms an auxiliary work. In addition to the drainage from a small catchment area, it receives a supply from No. 1, Irrigation Work, through the pot sluice provided at its right flank. Surplus is being discharged, and irrigation carried out by means of temporary cuts in the bund. As the work is not worth restoring, it was not taken up for investigation by the Tank Restoration Party.

Karunagaracheri Tank Sub-Group.

No. 2, IRRIGATION WORK—THEN TANGAL.

No. 3, Do. IRUMBEDU TANK.

PLATE X.

THESE being private works were not investigated by the Tank Restoration Party beyond being grouped.

NO. 1, KARUNAGARACHERI TANK.

(1)
For the portion of sentence "A pot sluice will be provided", in line 9, substitute the following:—
"The pot sluice built under Tank Restoration Scheme estimate having been washed away, an earthenware pipe sluice is proposed"—*vide* Proceedings of the Board of Revenue (Settlement, Land Records and Agriculture), Mis. No. 4864, dated 2nd July 1897.

KARUNAGARACHERI TANK GROUP.

Karunagaracheri Tank Sub-Group.

No. 4, IRRIGATION WORK.

VENKADU TANK.

PLATE

THIS work is in charge of the Public Works Department, and is situated immediately north-west of the village of Venkadu, in Conjeeveram taluk. In addition to the drainage from its free basin of 0.51 square mile, it receives the surplus of No. 5, Venkadu Ichan tangal, and also a supply of about 87 cubic feet per second from Choudry kal through a road tunnel. It surpluses into No. 3, Irumbedu tank, from its right flank over a calingula, $29\frac{3}{4}$ feet long (having an effective waterway of 25 feet), which being out of order and inadequate will be thoroughly repaired (*vide* plate X, fig. 4), and supplemented by a rough stone byewash, 85 feet long at the end of right flank. There are three masonry sluices in the tank, of which sluice No. 2 is in fair order, sluice No. 1 will be provided with a new head to facilitate regulation; sluice No. 3 being damaged beyond repairs, will be replaced by a new one (*vide* plate X, fig. 5). The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, from the right flank up to where it meets the Local Fund road, which runs close to the waterspread. The road is being maintained at about the M.W.L. of the tank, and nothing will be done to it. The existing revetment wherever displaced will be repacked.

Karunagaracheri Tank Sub-Group.

No. 5, IRRIGATION WORK.

VENKADU ICHAN TANGAL.

PLATE X.

THIS tangal is situated about a quarter of a mile north-west of the village of Venkadu, in Conjeeveram taluk. It receives the drainage from its free catchment area of 0.04 square mile, and surpluses into No. 4, Venkadu tank, through temporary cuts in the bund, which being unsatisfactory, a rough stone byewash, 25 feet long, will be constructed at its left flank. In place of the irrigation cuts in the bund a cheap masonry sluice will be provided (*vide* plate X, fig. 6). The bund is low, and will be brought up to 3 feet above M.W.L., with 3 feet top width and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

(3)

Substitute the following Memoir for the one printed on page 52.

KARUNAGARACHERI TANK
GROUP.

No. 4, VENKADU TANK.

(No. 304, in P.W.D. List.)

THIS work is in charge of the Public Works Department and is situated immediately north-west of the village of Venkadu in Conjeevaram taluk. In addition to the drainage from its free basin of 0.51 square mile it receives the surplus of No. 5, Venkadu Ichan Thangal, and also a supply of about 87 cubic feet per second from Choudrikal through a road tunnel which is under regulation. It surpluses into No. 3, Irumbedu tank, from its right flank over a calingulah 29 $\frac{3}{4}$ feet long (having an effective waterway of 25 feet) which being out of order and inadequate will be thoroughly repaired (*vide* plate X figure 4) and supplemented by a rough stone byewash 85 feet long at the end of right flank. There are three masonry sluices in the tank, of which sluice No. 2 is in fair order, sluice Nos. 1 and 3 being damaged beyond repairs will be reconstructed. The bund will be made up to 4 $\frac{1}{2}$ feet above M.W.L. with a top width of 4 $\frac{1}{2}$ feet and slopes 1 $\frac{1}{2}$ to 1 from the right flank up to where it meets the Local Fund road which runs close to the waterspread. The front slope of the bund is revetted at the deep part for a length of 1,770 feet. The revetment where low will be raised to M.W.L. and extended towards the right by 130 feet. The road is being maintained at about the M.W.L. of the tank and nothing will be done to it.

STANDARD TO BE MAINTAINED.

F.T.L.	...	...	44.25	ft.
M.W.L.	...	...	45.25	"
Top of bund	...	...	49.75	"
Top width	...	...	4 $\frac{1}{2}$	"
Side slopes	...	...	1 $\frac{1}{2}$ to 1	both sides

BENCH MARKS.

I.—B.M.	ft.
II.—B.M.	"
Height of Datum—above	"
Mean Sea level.	"

MAXIMUM DISCHARGE TO BE PROVIDED FOR.

Co-efficients, C = 500 ; c = 100.	
Area of free basin	0.51 sq. mile.
Combined catchment area	0.55 sq. mile.
Maximum discharge from catchment area	324 c. ft.
Maximum discharge from channel under regulation.	
Total discharge to be provided for	324 c. ft.

SURPLUS ARRANGEMENTS.

Effective length of masonry weir	25 ft.
Discharge over total length.	138 c. ft.
Effective length of bye-wash	85 ft.
Discharge over total bye-wash	198 c. ft.
Total maximum discharge provided for	336 "

DETAILS OF STORAGE.

Area of waterspread at F.T.L.	7.58 mills. sq. ft.
Capacity of tank at F.T.L.	22.50 " c. ft.
Total annual storage	45.00 " " "

DETAILS OF IRRIGATION.

Ayacut area	278 acres.
Proposed ultimate area	278 "
Water stored per acre	0.16 mill. c. ft.

LEVEL OF SLUICES.

Sill of sluice No. 1 from the left flank	35.35 ft.
Sill of sluice No. 2 from the left flank	37.13 "
Sill of sluice No. 3 from the left flank	41.48 "

ADDENDA AND CORRIGENDA

TO THE
DESCRIPTIVE MEMOIRS OF IRRIGATION WORKS
IN THE
ADYAR MINOR BASIN, CHINGLEPUT DISTRICT.

Issued on 15th July 1918.

Original edition, Page 53.

Revised edition, Page 41.

No. 2, ATTANANJERI TANK.

In the 6th and 7th line of the Memoir for "24 $\frac{1}{2}$ feet long" and "flush escape 102 feet long" read "24'-10" long" and "weir 102'-3" long" respectively.

Issued on 15th July 1918.

Page 16.

No. 2, ATTANANJERI TANK.

In the statement of the Hydraulic details against the name of work delete the figures in columns 11 and 12 and substitute the following:—
24'-10", 12'-1".

PADAPPAL TANK GROUP.

Padappal Tank Sub-Group.

NO. 1, IRRIGATION WORK.

PADAPPAL TANK.

PLATE XI.

THIS work in charge of the Public Works Department is the terminal tank of the group of its name, and is situated immediately south-west of the village of Padappal, in Conjeeveram taluk. It receives for its supply the drainage from its free catchment area of 1.64 square miles, besides the surplus of four upper tanks, and discharges from its right flank into a tributary of the Adyar, over two weirs having an aggregate length of $55\frac{1}{2}$ feet. These escapes being insufficient, a paved byewash, 106 feet long, will be provided at the end of the right flank. Escape No. 1 is in fair order (*vide* plate XI, fig. 1); the crest of weir No. 2 being half a foot above F.T.L. will be reduced to that level (*vide* plate XI, fig. 2). Irrigation is being managed by three masonry sluices, of which sluices Nos. 1 and 3 are in fair order; sluice No. 2 having its front and rear head works damaged will be improved. The bund is low and will be brought up to $4\frac{1}{2}$ feet above M.W.L. with $4\frac{1}{2}$ feet top width at centre, reduced to 3 feet above M.W.L. and 3 feet top width towards the flanks with slopes of $1\frac{1}{2}$ to 1, throughout. The existing revetment wherever displaced will be repacked.

Padappal Tank Sub-Group.

NO. 2, IRRIGATION WORK.

ATTANANJERI TANK.

PLATE XI.

THIS work is in charge of the Public Works Department, and is situated about $1\frac{1}{2}$ furlongs south-west of Attananjeri village, in Conjeeveram taluk. It receives for its supply the drainage from its free basin of 1.03 square miles, besides the surplus of three upper tanks, and discharges into No. 1 Padappal tank from its right flank, over a calingula, $24\frac{1}{4}$ feet long, which being inadequate will be supplemented by a flush escape, 102 feet long, 400 feet to the right of it (*vide* plate XI, fig. 4). The existing calingula will be converted into a weir having three vents in the body wall, each 3 feet $\times$ 2 feet (*vide* plate XI, fig. 3). There are two pot sluices and a masonry sluice in the tank, and these three being out of order will be replaced by new masonry sluices (*vide* plate XI, figs. 5, 6 and 7). The bund will be brought up to 3 feet above M.W.L., with 3 feet top width and slopes $1\frac{1}{2}$ to 1. The existing revetment will be thoroughly repacked.

PADAPPAL TANK GROUP.

Padappal Tank Sub-Group.

No. 3, IRRIGATION WORK.

SALAMANGALAM LARGE TANK.

PLATE XI.

THIS tank is situated immediately south-west of the village of Salamangalam, in Conjeeveram taluk. In addition to the drainage from its free basin of 0.47 square mile, it receives the surplus of No. 4, Nochili tangal, and No. 5, Vanjivancheri Large tank, and discharges into No. 2, Attanajer tank, at its right flank over a calingula, which being damaged and inadequate will be demolished, and a flush escape, 83½ feet long, will be constructed to the right of it (*vide* plate XI, fig. 8). There are two masonry sluices in the tank; sluice No. 1 from the left flank is in fair order. The front head works of sluice No. 2 are damaged and will be rebuilt. The bund will be brought up to 3 feet above M.W.L. with a top width of 3 feet and slopes 1½ to 1, tapering towards the flanks.

Padappal Tank Sub-Group.

No. 4, IRRIGATION WORK.

NOCHILI TANGAL.

PLATE XI.

THIS tangal is situated about 2 furlongs north-west of Vanjivancheri village, in Conjeeveram taluk. In addition to the drainage from a small free catchment area of 0.02 square mile, it receives the surplus of No. 5, Vanjivancheri Large tank, and discharges through temporary cuts into No. 3, Salamangalam large tank from its right flank, where a natural byewash, 77 feet long, will be formed. The existing pot sluice is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes 1½ to 1.

Padappal Tank Sub-Group.

No. 5, IRRIGATION WORK.

VANJIVANCHERI LARGE TANK.

PLATE XI.

THIS tank is situated close to the village of Vanjivancheri, in Conjeeveram taluk. It receives the drainage from its free basin of 0.21 square mile, and surpluses into No. 4, Nochili tangal, through low ground at its left flank, where a rough stone byewash, 79 feet long, will be constructed. The existing masonry and pot sluices are both in bad order, and in place of these two new masonry sluices will be built (*vide* plate XI, figs. 9 and 10). The bund will be brought up to 3 feet above maximum water-level with a top width of 3 feet and slopes of 1½ to 1.

ARAMBAKKAM TANK GROUP.

ADDENDA AND CORRIGENDA

TO THE
DESCRIPTIVE MEMOIRS OF IRRIGATION WORKS

IN THE

ADAYAR MINOR BASIN

Issued on 30th September 1925.

(1)

Page 55.

No. 12, MADAMBAKKAM TANK.

Delete the third and fourth sentence of the memoir and *insert*.—

“As the capacity of the tank was found to be insufficient owing to the great silting of the bed the F.T.L. has been raised by 1' 0". The M.W.L. and T.B.L. are however retained at their former levels, by converting the $27\frac{1}{2}$ feet weir into a calingulah with dam stones 1 foot high over crest at $2\frac{1}{2}$ feet intervals (9 vents $2\frac{1}{2}$ feet each and 10 dam stones 6" $\times$ 6" each with top of uprights at the raised F.T.L.) and also by constructing a new masonry calingulah $38\frac{1}{2}$ feet long (12 vents $2\frac{3}{4}$ feet each and 13 up-rights 1 foot high 6" $\times$ 6" each with crest 1 foot below and top of dam stones at the raised F.T.L.) in place of the existing byewash 37' 0" long at the left flank.”

Arambakkam Tank Sub-Group.

No. 2, IRRIGATION WORK.

NAVALUR TANK.

PLATE XII.

THIS work is in charge of the Public Works Department, and is situated close to the village of Navalur, in Conjeeveram taluk. In addition to the drainage from its free basin of 0.57 square mile, it receives the surplus of three upper tanks, and discharges into a tributary of the Adyar river, at its right flank over two calingulas, $26\frac{3}{4}$ feet and 36 feet long, respectively. A portion of the surplus is also sent into No. 1, Arambakkam tank by a channel from the surplus stream. The existing calingulas will be converted into weirs of the same length, and three vents each $3\frac{1}{4}$ feet $\times$ 4 feet deep will be provided in the body wall of escape No. 2 (*vide* plate XII, figs. 2 and 3). The two existing sluices are in fair order. The bund is very low and will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, reduced to 3 feet above M.W.L., and 3 feet top width towards the flanks, with slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment where displaced will be repacked.

ARAMBAKKAM TANK GROUP.

Arambakkam Tank Sub-Group.

No. 3, IRRIGATION WORK.

NEMMILI TANGAL.

PLATE XII.

THIS tangel is situated about half a mile west of the village of Navalur, in Conjeeveram taluk. It has no cultivation under it, and its low bank is breached in several places owing to the surplus of No. 4, Moseri, and No. 5, Serappanancheri Large tank passing through it. Hence the work was not taken up for investigation by the Tank Restoration Party.

Arambakkam Tank Sub-Group.

No. 4, IRRIGATION WORK.

MOSERI TANK.

PLATE XII.

THIS tank lies about a furlong west of Moseri, a hamlet of Navalur village, in Conjeeveram taluk. It receives the drainage from its free basin of 0.37 square mile, and surpluses into No. 2, Navalur tank, through No. 3, Nemmili tangel, a breached work. The temporary surplus cuts will all be closed, and a rough stone byewash, 111 feet long, will be constructed at the left flank. Irrigation is being conducted by two masonry sluices. Sluice No. 1 from the right flank has its front head works damaged, and these will be rebuilt; sluice No. 2 is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Arambakkam Tank Sub-Group.

No. 5, IRRIGATION WORK.

SERAPPANANCHERI LARGE TANK.

PLATE XII.

THIS tank is situated close to the village of Serappanancheri, in Conjeeveram taluk. In addition to the drainage from its free basin of 0.7 square mile, it receives the surplus of No. 6, Panapakkam tank, and surpluses at its right flank into No. 2, Navalur tank, through No. 3, Nemmili tangel, a breached work. The existing calingula, 30 feet long at the right flank, will be converted into a weir (*vide* plate XII, fig. 4), and being inadequate will be supplemented by a rough stone byewash, 69 feet long, to the right of it. Irrigation is being managed by two masonry sluices; No. 1 sluice will be repaired, and No. 2 being damaged will be reconstructed (*vide* plate XII, fig. 5). The bund is low, and will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, reduced to 3 feet above M.W.L., and 3 feet top width, and tapering towards the flanks with slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment wherever displaced will be repacked, and the low portions raised to M.W.L.

ARAMBAKKAM TANK GROUP.

Arambakkam Tank Sub-Group.

No. 6, IRRIGATION WORK.

PANAPAKKAM TANK.

PLATE XII.

This tank lies immediately north-west of the village of Panapakkam, in Conjeeveram taluk. It receives the drainage from its free catchment area of 0.45 square mile, and surpluses into No. 5, Serappanancheri

(7)

PAGE

NO. 6, PANAPAKKAM TANK.

57

Between the last two sentences insert the following sentence:—
“The pot sluice being damaged will be replaced by an earthenware pipe sluice.”

Arambakkam Tank Sub-Group.

(3)

Issued on 19th September 1923.

Page 57, First Edition.

Page 43, Second Edition.

No. 7, VELLERITANGAL TANK.

In the second sentence of the memoir for ‘over a rough stone calingulah . . . Rough stone byewash, 67 feet long provided’ read ‘over a masonry calingulah 28’-6” long with 8 vents 3’-0” each and 9 dam stones 6” square having their top at F.T.L. (i.e.) 6 inches over the crest of the calingulah’.

be replaced by a new masonry sluice (*vide* plate XII, fig. 7). The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Arambakkam Tank Sub-Group.

No. 8, IRRIGATION WORK.

PORATTERI TANGAL.

PLATE XII.

This tangal lies close to the village of Serappanancheri, in Conjeeveram taluk. It receives the drainage from its small free catchment area of 0.036 square mile, and surpluses into No. 7, Velleri tangal tank, over low ground at its left flank, where a natural byewash, 28 feet long, will be formed. Irrigation is carried on by cuts in the bund, and the aya-cut, being very small, the system will be allowed to continue. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

ARAMBAKKAM TANK GROUP.

*Arambakkam Tank Sub-Group.***No. 9, IRRIGATION WORK.**

PUDU TANGAL.

PLATE XII.

THIS tangal is situated in the village of Velleritangal, in Conjeeveram taluk, and receives for its supply the drainage from its free basin of 0.024 square mile. It surpluses into No. 7, Velleritangal tank, over low ground at its right flank, where a natural byewash, 60 feet long, will be formed. The existing pot sluice is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

ORATTUR TANK GROUP.

*Orattur Tank Sub-Group.***No. 1, IRRIGATION WORK.**

PLATE XIII.

THIS work which is the terminal tank of the group of its name, is in charge of the Public Works Department, and is situated immediately west of the village of Orattur, in Conjeeveram taluk. In addition to the drainage from its free basin of 1.78 square miles, it receives the surplus of 11 upper tanks, and discharges into a tributary of the Adyar, from its left flank over a calingula and a natural escape, 36 feet and 200 feet long, respectively. The calingula will be converted into a weir of the same length (*vide* plate XIII, fig. 1). As the waterways of the escapes being insufficient, they will be supplemented by an additional weir, 29 feet long, to the left of the existing calingula. A vent, 5 feet wide, will be allowed in the body wall to enable the ryots to divert into the tank a supply from the (Madugu) drainage flowing close by (*vide* plate XIII, fig. 3). There are two sluices in the tank. Sluice No. 1 from the left flank is in fair order; sluice No. 2 being damaged beyond repairs will be replaced by a new one (*vide* plate XIII, fig. 2). The bund will be made up to 6 feet above M.W.L., with a top width of 6 feet at centre and tapering towards the flanks with side slopes $1\frac{1}{2}$ to 1. The existing revetment is in good order, and will be raised to $1\frac{1}{2}$ feet above M.W.L.

ORATTUR TANK GROUP.

Orattur Tank Sub-Group.

No. 1 A, IRRIGATION WORK.

THAMARAKARAI TANGAL.

PLATE XIII.

THIS tangal is situated immediately north of the village of Siruvanjur, in Conjeeveram taluk. In addition to the drainage from its free basin of 0.04 square mile, it is being supplied by one of the sluices of No. 10, Siruvanjur Large tank of Kilakkalani tank group. It surpluses through cuts in the bund into No. 1, Orattur tank, and instead of these a natural byewash, 30 feet long, will be formed at the left flank. The bund will be made up to 2 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The existing sluice is in fair order.

Orattur Tank Sub-Group.

No. 2, IRRIGATION WORK.

NATTARASAMPATTU SITTERI.

(8)

NO. 2, NATTARASAMPATTU SITTERI.

59

Between the third and fourth sentences in line 7 insert the following sentence:—"The byewash will be paved for a length of 12 feet to mark the F.T.L."

After the sentence 'Irrigation is being sluices' in line 9, insert the following:—"The pot sluice will be replaced by a cement concrete pipe sluice".

Delete the portion of sentence "sluice No. 2 is in fair order" in line 11.

For the figure '3' in the part of sentence 'with a top width of 3 feet' in line 12, substitute "4".

No. 3, IRRIGATION WORK.

RETTAPALLAM TANK.

PLATE XIII.

THIS tank lies about a quarter of a mile south-west of the village of

(5)

NO. 3, RETTAPALLAM TANK.

E 59.

For the name "Rettapallam tank" read "Rettapallam tank or Nattarasampattu tangal". Delete the sentence "Irrigation is being managed will be provided", and substitute the following:—

"The pot sluice provided under Tank Restoration Scheme estimate having been washed away, two earthenware pipe sluices will now be built"—vide Proceedings of the Board of Revenue (Settlement, Land Records and Agriculture), Mis. No. 9815, dated 8th December 1897.

DESCRIPTIVE MEMOIRS OF IRRIGATION WORKS,

ORATTUR TANK GROUP.

Page 60.

No. 15. KANNIVAKKAM TANK.

For The seventh sentence of the memoir read the following :—
"The three sluices are in good condition".

No. 4, IRRIGATION WORK.

KANJIVAKKAM TANK.

PLATE XIII.

(1)

First edition, page 60.

Revised edition, page 45.

(Issued on 1st February 1917.)

No. 4, KANJIVAKKAM TANK.

In the second line of the memoir for "Conjeevaram" read "Saidapet". From fifth to ninth line of the memoir, for "over two calingulahs" byewash can remain as it is" read "over a weir 18½ feet a calingulah 24 feet and a ground escape 100 feet long. These are sufficient to dispose of the inflow into the tank."

(5)

Issued on 19th September 1923.

Page 60, First Edition.

Page 45, Second Edition.

No. 5, PUNTHOTTATHUYERI.

In the second sentence of the memoir for 'over natural ground' will be formed', read 'over a masonry calingulah 39'-0" long at the right flank with 11 vents 3' each and 12 dam stones 36 inches square having their top level at F.T.L. (i.e.) one foot over the crest of the calingulah.'

Conjeevaram taluk. It receives the drainage from its free basin of 0.32 square mile, together with the surplus of No. 7, Umayaparanacheri large tank, and No. 6, Nattapallam yeri, and discharges into No. 4, Kanjivakkam tank, over natural ground at the right flank, where a rough stone byewash, 121½ feet long, will be formed. The existing masonry sluice is in fair order; a pot sluice will be provided 570 feet to the right of the existing sluice to irrigate high level fields. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes 1½ to 1. The existing revetment being in disorder will be removed and repacked. The financial particulars of this work include those of No. 8, Putteri, which has no separate ayacut of its own but acts as an auxiliary work to this tank.

ORATTUR TANK GROUP.

*Orattur Tank Sub-Group.***No. 6, IRRIGATION WORK.****NATTAPALLAM YERI.**

PLATE XIII.

THIS tank is situated about half a mile south-east of the village of Umayaparanacheri in Conjeeveram taluk. It receives the drainage from its free catchment area of 0.08 square mile, and surpluses into No. 5, Punthottathu yeri through a cut from its right flank, where a natural byewash 56 feet long will be formed. Irrigation is being managed by a cut in the bund, in place of which a pot sluice will be provided. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The ayacut of this tank is included in that of No. 7, Umayaparanacheri large tank, and no separate financial accounts are kept for this work.

*Orattur Tank Sub-Group.***No. 7, IRRIGATION WORK.****UMAYAPARANACHERI LARGE TANK.**

PLATE XIII.

THIS tank is situated about a quarter of a mile west of the village of Umayaparanacheri in Conjeeveram taluk. It receives the drainage from its free basin of 0.43 square mile, and surpluses into No. 5, Punthottathu yeri, over low ground at its left flank, where a rough stone byewash 70 feet long will be formed. The existing masonry sluice is in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with $4\frac{1}{2}$ feet top width at centre, tapering to 3 feet above M.W.L., and 3 feet top width towards the flanks, with slopes $1\frac{1}{2}$ to 1 throughout. The existing revetment being in disorder will be removed and repacked.

*Orattur Tank Sub-Group.***No. 8, IRRIGATION WORK.****PUTTERI.**

PLATE XIII.

THIS tank is situated immediately south of the village of Vattambakkam in Conjeeveram taluk. In addition to the drainage from its free basin of 0.11 square mile, it receives the surplus of No. 9, Vattambakkam large tank, and discharges into No. 4, Kanjivakkam tank through cuts in the bund which will be closed and two rough stone byewashes, 70 feet and 69 feet long, will be provided at the right and left flanks, respectively. A cut 30 feet wide will also be formed in the bund at the left end to serve as an additional escape. Irrigation is being managed by two cuts in place of which two barrel sluices will be provided (*vide* plate XIII, figs. 8 and 9). The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The financial particulars of this work are included with those of No. 5, Punthottathu yeri.

ORATTUR TANK GROUP.

Orattur Tank Sub-Group.

No. 9, IRRIGATION WORK.

VATTAMBAKKAM LARGE TANK.

PLATE XIII.

THIS tank is situated immediately north-west of Vattambakkam village in Conjeeveram taluk. It receives the drainage from its free basin of 0.54 square mile, and surpluses into No. 8, Putteri. A supply is also received from No. 11, Katteri tank, through a cut in the bund, which is closed when it is no longer required. The existing weir 33 feet long at the right flank (*vide* plate XIII, fig. 10), and the sluice are in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with $4\frac{1}{2}$ feet top width at centre, tapering to 3 feet above M.W.L., and 3 feet top width towards the flanks, with slopes of $1\frac{1}{2}$ to 1 throughout. The extreme ends will be sloped to meet the high ground. The existing revetment where displaced will be repacked.

ADDENDA AND CORRIGENDA

TO THE

DESCRIPTIVE MEMOIRS OF IRRIGATION WORKS

IN THE

ADYAR MINOR BASIN

(1)

(Issued on 9th March 1917.)

Page 62 of first edition.

Page 47 of revised edition.

No. 10, PULICHERI.

In the fourth and fifth line of the memoir for "low ground at its left flank . . . will be constructed."

Read "a paved byewash 81 feet long at the left flank. This byewash having been badly damaged beyond repairs and the site much scoured out, it will be replaced by a masonry calingulah 24 feet long with top of dam stones at F.T.L. and crest one foot below F.T.L. which will discharge the whole surplus of the tank."

PLATE XIII.

(16)

PAGE

NO. 11, KATTERI.

62

At the end of the second sentence in line 4 add the following:—
"and into No. 9, Vattambakkam large tank through a temporary cut at the right flank. A paved byewash 81 feet long will now be constructed at the site of the ground escape at the left flank and this work will be capable of discharging 187 cubic feet per second into the Kanjivakkam tank with a head of one foot. In place of the temporary cut a masonry weir 19 feet long will be provided to discharge 61 cubic feet into the Vattambakkam large tank."

Note.—Corresponding alterations should be made in the plate XIII of the Minor basin.

KILAKKALANI TANK GROUP.

Kilakkalani Tank Sub-Group.

No. 1, IRRIGATION WORK.

PLATE XIV.

THIS tank is situated immediately south-west of the village of Kilakkalani in Conjeeveram, taluk and is the terminal work of the group of its name. In addition to the drainage from its free basin of 0.59 square mile, it receives a portion of the supply from the surplus of the nine uplying tanks (the balance escaping over the low banks of the supply stream before it enters the tank), amounting in all to 519 cubic feet per second, which is discharged at its flanks into a tributary of the Adyar river. The existing calingula at the right flank being ineffective will be removed, and replaced by a masonry weir 50 feet long (*vide* plate XIV, fig. 2). The surplus cuts at the left flank will be closed as they prove detrimental to the safety of the village close by. There are two irrigation sluices, of which sluice No. 1 from the left flank being ruined will be rebuilt (*vide* plate XIV, fig. 1); sluice No. 2 is in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with $4\frac{1}{2}$ feet top width at centre, reduced to 3 feet above M.W.L., and 3 feet top width at the right flank, and tapering towards the left with side slopes of $1\frac{1}{2}$ to 1 throughout.

Kilakkalani Tank Sub-Group.

No. 2, IRRIGATION WORK.

KATTUPAKKAM TANK.

PLATE XIV.

THIS tank is situated immediately south-west of the village of Kattupakkam in Conjeeveram taluk. It receives the drainage from its free basin of 0.36 square mile, and surpluses from its right flank over a rough stone calingula, which being quite ineffective and inadequate, will be closed and a natural byewash, 69 feet long, will be formed at the left flank. The existing masonry sluice is in a ruined state and will be replaced by a new one (*vide* plate XIV, fig. 3). A pot sluice will be provided at the right flank in place of an existing cut. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

KILAKKALANI TANK GROUP.

Kilakkalani Tank Sub-Group.

No. 3, IRRIGATION WORK.

SITTERI.

PLATE XIV.

This small tank is situated about a quarter of a mile south-west of Kattupakkam village, and adjoins the bund of No. 2, Kattupakkam tank, in Conjeeveram taluk. It has no other catchment basin except its small waterspread, and is supplied by No. 2, Kattupakkam tank, through a cut in the bund. The surplus is being disposed of into No. 1, Kilakkalani tank, through a temporary cut at the left flank, which will be allowed to be looked after by the ryots as usual. The existing masonry sluice will be repaired. The bund will be brought up to 3 feet above M.W.L., and 3 feet top width for about 900 feet from the right flank, while the remaining portion will be tapered, with side slopes of $1\frac{1}{2}$ to 1 throughout. The ayacut of this tank is included with that of No. 2, Kattupakkam tank, and no separate financial accounts are kept for this work.

Kilakkalani Tank Sub-Group.

No. 4, IRRIGATION WORK.

VADAMELPAKKAM TANK.

PLATE XIV.

This tank is situated to the south of Vadamelpakkam village in Conjeeveram taluk. In addition to the drainage from its free basin of 0.29 square mile, it receives the surplus of three upper tanks, and discharges into No. 1, Kilakkalani tank, over a rough stone calingula at its right flank, which being inadequate will be supplemented by a natural ground escape 120 feet long at the end of the right flank. The calingula is in fair order. The tank has a masonry and two pot sluices for irrigation. The masonry sluice being ruined will be rebuilt (*vide* plate XIV, fig. 4); the pot sluice at the right flank will be replaced by a barrel sluice (*vide* plate XIV, fig. 5). The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, tapering towards the ends.

KILAKKALANI TANK GROUP.

Kilakkalani Tank Sub-Group.

No. 5, IRRIGATION WORK.

SIRUVANJUR KATTERI.

(4)

Page 65.

No. 5, SIRUVANJUR KATTERI.

For the Memoir printed on page 65, substitute the following :—

This tank is situated about three-fourths of a mile south of the village of Siruvanjur in Conjeevaram taluk. It receives the drainage from its free basin of 0.93 sq. mile in addition to the surplus of Nos. 6 and 7 Sittamangalam tangal and tank, and discharges into No. 4, Vadamelpakkam tank over two calingulaks 31' long of 8 vents each, one at each flank, with their crests at 60.06 and 60.16 and top of dam stones at 62.56 and 62.70, respectively. These two calingulaks are capable of discharging the whole surplus with a head of 1' 3" above F.T.L. Irrigation is carried on by two masonry sluices. The bund will be brought up to $4\frac{1}{2}$ ' above M.W.L., with a top width of $4\frac{1}{2}$ ' at centre, tapering towards the flanks, with slopes of $1\frac{1}{2}$ to 1 throughout. The front slope of the bund will be revetted from weir No. 1 for a total length of 569' to 1' above M.W.L. and the remaining slopes of the bund turfed.

XIV.

Kilakkalani Tank Sub-Group.

No. 6, IRRIGATION WORK.

SETTAMANGALAM TANGAL.

PLATE XIV.

This tangal is situated close to the village of Settamangalam in Chin-
gleput taluk. It receives the drainage from its small catchment area
of 0.1 square mile, and surpluses into No. 5, Siruvanjur Katteri, from
its right flank through a cut 6 feet wide, which being inadequate, a
rough stone bye-wash $48\frac{1}{2}$ feet long will be constructed at the site.
The existing masonry sluice is in fair order. The bund will be brought
up to 3 feet above M.W.L., with a top width of 3 feet and side slopes
 $1\frac{1}{2}$ to 1.

KILAKKALANI TANK GROUP.

Kilakkalani Tank Sub-Group.

(4)

*First edition, page 66.**Revised edition, page 49.*

(Issued on 1st February 1917.)

No. 7, SETTAMANGALAM TANK.

In the fourth and fifth line of the memoir, for "a rough stone byewash 54½ feet long will be constructed" read "a masonry calingulah 47 feet long having crest at F.T.L. (70.25) with top of dam stones 0.67 foot above F.T.L. of the tank has been constructed".

No. 8, IRRIGATION WORK.

ERIVAKKAM TANK.

PLATE XIV.

THIS tank is situated immediately south-west of the village of Erivakkam in Conjeeveram taluk. In addition to the drainage from its free basin of 0.53 square mile, it receives the surplus of No. 9, Buderu tank, and No. 10, Siruvanjur large tank, and discharges into No. 1, Kilakkalani tank, over a natural escape 112 feet long at the left flank, and a weir 24½ feet long at the right (*vide* plate XIV, fig. 9). The crest of the weir being 1½ feet above F.T.L. will be reduced to that level. The two existing masonry sluices are damaged beyond repairs; sluice No. 1 will be replaced by a pot and No. 2 by a new masonry sluice (*vide* plate XIV, fig. 8). The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes 1½ to 1.

Kilakkalani Tank Sub-Group.

No. 9, IRRIGATION WORK.

BUDERI.

PLATE XIV.

THIS tank is situated about a furlong south-west of Siruvanjur village in Conjeeveram taluk. In addition to the drainage from its free catchment basin of 0.33 square mile, it receives a supply from No. 5, Siruvanjur Katteri, by two channels (one taking off from its waterspread and the other from its surplus) which are maintained by the ryots. It surpluses into No. 8, Erivakkam tank, over a calingula at its right flank which being ruined will be replaced by a masonry weir 26 feet long with a vent 4 feet wide in the body wall (*vide* plate XIV, fig. 10) to let in a supply (when water is below F.T.L.) from the surplus of No. 5, Siruvanjur Katteri. The existing masonry sluice is in fair order. The bund will be made up to 4½ feet above M.W.L., with 4½ feet top width at the deepest part towards the right flank, reduced to 3 feet above M.W.L. and 3 feet top width at the left flank and tapered at the ends, with side slopes of 1½ to 1 throughout. The existing revetment wherever displaced will be repacked.

KILAKKALANI TANK GROUP.

Kilakkalani Tank Sub-Group.

No. 10, IRRIGATION WORK.

SIRUVANJUR LARGE TANK.

PLATE XIV.

THIS tank is in charge of the Public Works Department, and is situated close to the villages of Siruvanjur and Nattarasampattu in Conjeeveram taluk. It receives the drainage from its free basin of 0.58 square mile, and surpluses into No. 8, Erivakkam tank, over a weir 35½ feet long at the right flank, with two tambogies in fair order. The sill of the tambogies will be raised by 1½ feet, and the ventways provided with shutters (*vide* plate XIV, fig. 11). There are four masonry sluices for irrigation, of which sluice Nos. 1 and 2 from the left flank are in fair order; sluice Nos. 3 and 4 being a little damaged will be repaired. The bund will be made up to 4½ feet above M.W.L. with a top width of 4½ feet at centre, reduced to 3 feet above M.W.L. and 3 feet top width towards the flanks, with slopes of 1½ to 1 throughout.

KAVANUR TANK GROUP.

Kavanur Tank Sub-Group.

No. 1, IRRIGATION WORK.

KAVANUR TANK.

PLATE XV.

THIS tank which is the terminal work of the group, is in charge of the Public Works Department, and is situated immediately south-east of the village of Kavanur in Conjeeveram taluk. In addition to the drainage from its free basin of 1.05 square miles, it receives the surplus of seven upper tanks, and discharges over a natural escape 30 feet long and a weir 95 feet long at the left and right flanks, respectively, into a tributary of the Adyar river. The weir is in fair order (*vide* plate XV, fig. 1). Irrigation is being managed by three masonry sluices, which are in working order. The bund will be brought up to 6 feet above M.W.L., with a top width of 6 feet and slopes 1½ to 1, the ends being tapered. The existing revetment is in fair order.

Kavanur Tank Sub-Group.

No. 2, IRRIGATION WORK.

KONADI TANK.

PLATE XV.

THIS tank is situated about a furlong north-east of the village of Konadi in Chingleput taluk. It receives the drainage from its free basin of 0.13 square mile, and surpluses into No. 1, Kavanur tank, over low ground at the right flank, where a paved byewash 58 feet long will be provided. Irrigation is carried on by a pot sluice and a masonry sluice. The pot sluice being damaged will be replaced by a new one, and the masonry one will be repaired. The bund which is very low will be brought up to 3 feet above M.W.L. with a top width of 3 feet and side slopes 1½ to 1, the ends being tapered.

No. (1)

KAVANUR TANK.

PAGE 67

After the second sentence of the memoir in line 7 insert the following sentence:—

"The natural escape at the left flank being scoured out below F.T.L., a masonry weir 30 feet long will be provided in its place".

In the 9th line of the memoir omit the words "are in working order" and insert the following in its place. "Will be reconstructed being in bad order and their heads in the deep bed of the tank".

Omit the last sentence in line 11 and insert the following:—

"The bund is revetted for a length of about 1,855 feet. The revetment where low will be raised to 1 foot above M.W.L., and where displaced it will be removed and repacked with 6 inches quarry chips backing".

KAVANUR TANK GROUP.

Kavanur Tank Sub-Group.

No. 3. IRRIGATION WORK.

(4)

Issued on 5th September 1923.

Original Edition.

Page 68.

Revised Edition.

Page 50.

No. 3. KONADI TANGAL.

In the third line of the memoir for "74'" read "100'".

PLATE XV.

in Chingleput
of 0.16 square
ong at its left
d on by a pot
I.W.L., with a

Kavanur Tank Sub-Group.

No. 4, IRRIGATION WORK.

BUDERI TANK.

PLATE XV.

THIS tank is situated about 3 furlongs north of Kattankolattur village in Chingleput taluk. In addition to the drainage from its free basin of 0.29 square mile, it receives the surplus of No. 5, Kattankolattur large tank, and discharges into No. 1, Kavanur tank, over low ground at its right flank, where a masonry weir $76\frac{1}{2}$ feet long will be constructed (*vide* plate XV, fig. 2). The existing masonry sluice is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The existing revetment wherever displaced will be repacked.

Kavanur Tank Sub-Group.

No. 5, IRRIGATION WORK.

KATTANKOLATTUR LARGE TANK.

PLATE XV.

THIS tank is in charge of the Public Works Department, and is situated immediately south-west of the village of Kattankolattur in Chingleput taluk. It receives the drainage from its free basin of 0.9 square mile, and surpluses over natural ground at its right flank into No. 4, Buderu tank. The escape being below F.T.L., a weir $99\frac{1}{2}$ feet long will be constructed at the site (*vide* plate XV, fig. 3). There are two irrigation sluices which are in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with $4\frac{1}{2}$ feet top width at centre, reduced to 3 feet above M.W.L. and 3 feet top width towards the flanks with slopes $1\frac{1}{2}$ to 1. The existing revetment where displaced will be repacked, and the whole raised to M.W.L.

KAVANUR TANK GROUP.

Kavanur Tank Sub-Group.

No. 6, IRRIGATION WORK.

MARUDERI.

PLATE XV.

THIS tank is situated about half a mile north-west of Kattankolattur village in Chingleput taluk. In addition to the drainage from its free basin of 0.17 square mile, it receives the surplus of No. 7, Korakan tangal, and No. 8, Korakan tangal tank, and discharges into No. 1, Kavanur tank, over low ground at its left flank, where a rough stone byewash 63 feet long will be provided. The existing masonry sluice is in fair order. The bund will be brought up to 3 feet above M.W.L., with 3 feet top width and slopes $1\frac{1}{2}$ to 1.

Kavanur Tank Sub-Group.

No. 7, IRRIGATION WORK.

KORAKAN TANGAL.

PLATE XV.

THIS tangal is situated about half a mile west of the village of Kattankolattur in Chingleput taluk. It receives the drainage from its free basin of 0.11 square mile, and surpluses into No. 6, Maruderi tank, over a natural ground escape $57\frac{1}{2}$ feet long at its right flank. Irrigation is being managed by a pot sluice, which is sufficient. The ayacut of this work is included in that of No. 8, Korakan tangal tank, and no separate financial accounts are kept for this tank. The tangal being an insignificant work, no estimate has been prepared for it by the Tank Restoration Party.

Kavanur Tank Sub-Group.

No. 8, IRRIGATION WORK.

KORAKAN TANGAL TANK.

PLATE XV.

THIS tank is situated about three-fourths of a mile west of the village of Kattankolattur in Chingleput taluk. It receives the drainage from its free basin of 0.23 square mile, and surpluses over natural byewashes 69 feet and 44 feet long at the left and right flanks, respectively, into No. 6, Maruderi. In place of the two existing pot sluices a barrel sluice will be provided. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The existing revetment is in fair order.

Omit the last but one sentence "The existing masonry sluice is in fair order" and insert the following:—
"The existing masonry sluice having been damaged beyond repairs, a portland cement concrete pipe sluice is proposed to be built at 15 feet left of the existing sluice."

ADANUR TANK GROUP.

Adanur Tank Sub-Group.

No. 1, IRRIGATION WORK.

ADANUR TANK.

PLATE XVI.

THIS tank which is the terminal work of the group of its name, is in charge of the Public Works Department, and is situated immediately south of the village of Adanur in Conjeeveram taluk. In addition to the drainage from its free basin of 1.27 square miles, it receives about half the surplus discharge of the thirteen uplying tanks (viz., 755 cubic feet per second), while the remaining half is disposed of over an outlet in the surplus supply channel. It discharges into a tributary stream of the Adyar over two weirs having an aggregate length of $49\frac{1}{4}$ feet at its right flank, which being inadequate will be supplemented by a rough stone byewash 269 feet long, at the right end with crest half a foot above F.T.L. Weir No. 1 from the left flank is $26\frac{3}{4}$ feet long, and will have its body wall which is partly broken down rebuilt. A cushion wall about the middle of the existing apron, and a rough stone pavement in rear will also be provided (*vide* plate XVI, fig. 1). Weir No. 2, $22\frac{1}{2}$ feet long, is in fair order (*vide* plate XVI, fig. 2). There are four masonry sluices for irrigation, all in good working order. The bund will be made up to 6 feet above M.W.L., with a top width of 6 feet at the centre, at the deepest part of the tank, and reduced to $4\frac{1}{2}$ feet and 3 feet above M.W.L., with top breadths of $4\frac{1}{2}$ feet and 3 feet, respectively, towards the flanks, with slopes of $1\frac{1}{2}$ to 1 throughout. The surplus channel which feeds the tank will be cleared to a bottom width of 20 feet, side slopes $1\frac{1}{2}$ to 1 and fall 1 in 770, from the existing outlet up to where it enters the tank. The outlet in the channel is $26\frac{3}{4}$ feet long; a portion of its left wing will be rebuilt, and upright stones will be inserted in the body wall at intervals of 6 feet (*vide* plate XVI, fig. 3), to allow of damming up the escape whenever required.

Adanur Tank Sub-Group.

No. 2, IRRIGATION WORK.

GUDUVANJERI TANK.

PLATE XVI.

THIS work is in charge of the Public Works Department, and is situated close to the village of Guduvanjeri in Chingleput taluk. It receives the drainage from its free basin of 1.3 square miles, in addition to the surplus of seven upper tanks and discharges into No. 1, Adanur tank, over a natural escape 320 feet long, and a weir 24 feet long at its left flank. The wings of the weir being considerably damaged will be dismantled and rebuilt; a lower rough stone apron will also be provided (*vide* plate XVI, fig. 4). The existing high level sluice is in fair order, and the low level one will be repaired. An irrigation cut at the left flank will be replaced by a pot sluice. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L. with $4\frac{1}{2}$ feet top width and slopes $1\frac{1}{2}$ to 1, tapering towards the ends. The existing revetment wherever displaced will be repacked.

ADANUR TANK GROUP.

*Adanur Tank Sub-Group.***No. 3, IRRIGATION WORK.**

GUDUVANJERI TANGAL.

PLATE XVI.

THIS tangal is situated about half a mile south of the village of Guduvanjeri in Chingleput taluk, and receives the drainage from a small free catchment area of 0.1 square mile. It surpluses into No. 2, Guduvanjeri tank, at its right flank over a natural byewash, the site of which will be levelled for a length of $46\frac{1}{2}$ feet and paved with rough stone. A pot sluice will be provided in place of the existing irrigation cut to command the small ayacut of 12 acres under the tank. The bund wherever low will be brought up to 2 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The existing revetment is in fair order.

*Adanur Tank Sub-Group.***No. 4, IRRIGATION WORK.**

VALLANJERI TANGAL.

PLATE XVI.

THIS tangal is situated close to the village of Vallanjeri in Chingleput taluk. The bund breached about 15 years before the work was inspected by the Tank Restoration Party, and as the tank retains no supply in it, the small ayacut of 12 acres under it is since being irrigated by No. 5, Vallanjeri tank. As the work is not worth restoring, it was not estimated for by the Tank Restoration Party.

*Adanur Tank Sub-Group.***No. 5, IRRIGATION WORK.**

VALLANJERI TANK.

PLATE XVI.

(3)

Page 71.

No. 5, VALLANJERI TANK.

Omit the third and fourth sentences in the memoir and *substitute* the following :—

“The roughstone byewash $60\frac{1}{2}$ feet long which was built close to the calingulah which was replaced by a weir at the right flank will be converted into a weir 60 feet long by adding a skin wall in front, it having sunk 3 inches to 6 inches below F.T.L. There is a masonry and a pot sluice for irrigation, the former having been damaged beyond repairs will be replaced by a new sluice with tower head.”

ADANUR TANK GROUP.

Adanur Tank Sub-Group.

No. 6, IRRIGATION WORK.

POTTERI TANK.

PLATE XVI.

THIS work is in charge of the Public Works Department, and is situated immediately south-east of the village of Potteri in Chingleput taluk. It receives the drainage from its free basin of 1.49 square miles, besides the surplus of 3 upper tanks, and discharges into No. 5, Vallanjeri tank, at its right flank over a weir 61 feet long and a natural ground escape. The weir is in fair order (*vide* plate XVI, fig. 7), and the byewash site will be levelled for a length of 53 feet and paved with rough stone. There are three sluices in the tank, of which sluice No. 1 from the right flank is blocked up and will be left as it is; sluice No. 2 will be provided with a new head, and sluice No. 3 is in fair order. A pot sluice will be provided in place of an irrigation cut at the left flank. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, tapering towards the ends. The existing revetment wherever displaced will be repacked, and the portion at the deepest part will be raised to M.W.L.

Adanur Tank Sub-Group.

No. 7, IRRIGATION WORK.

KARAI YERI.

PLATE XVI.

THIS tank is situated about three-quarter of a mile south-east of the village of Ninnaparai in Chingleput taluk. It receives the drainage from its free basin of 0.28 square mile, and surpluses into No. 6, Potteri tank, over a rough stone escape and a natural byewash 24 feet and 28 feet long, respectively, at the right flank. The natural escape will be paved with rough stone. The existing masonry sluice is in fair order and answers its purpose. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1. The existing revetment will be raised to the maximum water-level.

ADANUR TANK GROUP.

Adanur Tank Sub-Group.

No. 8, IRRIGATION WORK.

SITTERI.

PLATE XVI.

THIS work is in charge of the Public Works Department, and is situated about quarter of a mile south-east of the village of Ninnaparai in Chingleput taluk. In addition to the drainage from its small free basin of 0.11 square mile, it receives the right flank surplus of No. 9, Ninnaparai tank, and discharges into No. 6, Potteri tank, through cuts at both the flanks. In place of the surplus cuts two rough stone byewashes 31 feet and 35 feet long will be constructed at the right and left flanks, respectively. The existing masonry sluice is a little damaged, and will be repaired. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the ends.

Adanur Tank Sub-Group.

No. 9, IRRIGATION WORK.

NINNAPARAI TANK.

PLATE XVI.

THIS work is in charge of the Public Works Department, and is situated about three-eighths of a mile south of the village of Ninnaparai in Chingleput taluk, and receives the drainage from its free catchment basin of 0.84 square mile. It surpluses into No. 6, Potteri tank, at its left flank over low ground, and into No. 8, Sitteri, at its right over a calingula 24 feet long. The calingula will be converted into a weir having two vents $2\frac{1}{2}$ feet wide each in the body wall (*vide* plate XVI, fig. 8). Instead of the ground escape a rough stone byewash 57 feet long will be provided at the left flank. There are two sluices in the tank, of which sluice No. 1 being a little out of order will be repaired; sluice No. 2 is damaged beyond repairs, and will not be restored as the villagers do not want it. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and side slopes $1\frac{1}{2}$ to 1 at centre, sloping towards the flanks. The existing revetment where displaced will be repacked.

ADANUR TANK GROUP.

ADDENDA AND CORRIGENDA

TO THE

DESCRIPTIVE MEMOIRS OF IRRIGATION WORKS

IN THE

ADYAR MINOR BASIN, CHINGLEPUT DISTRICT.

(1)

Page 74.

No. 10, POTTERI TANGAL.

Omit the portion of the second sentence of the Memoir after the word "over" and substitute the following:—

"a rough stone byewash 86 feet long, at the right flank. This byewash having been washed away and the site much scoured out, it will be replaced by a masonry weir 58 feet long to discharge the maximum flood with a head of one foot."

PLATE XVI.

THIS tangal is situated about half a mile south-east of the village of Madambakkam in Conjeeveram taluk. In addition to the drainage from its free catchment basin of 0.17 square mile, it receives a portion of the surplus of Nos. 13 and 14, Tailapuram tangal and tank, and discharges into No. 1, Adanur tank, through a cut at its right flank, where a rough stone byewash 78 feet long will be provided. Irrigation is being managed by a cut in the bund, in place of which a masonry barrel sluice will be constructed (*vide* plate XVI, fig. 9). The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Adanur Tank Sub-Group.

No. 12, IRRIGATION WORK.

MADAMBAKKAM TANK.

PLATE XVI.

THIS tank is situated about a furlong south-east of the village of Madambakkam in Conjeeveram taluk. In addition to the drainage from its free basin of 0.51 square mile, a portion of the surplus of Nos. 13 and 14 works is also diverted into the tank through a cut in the bund, where an inlet sluice will be provided (*vide* plate XVI, fig. 11). The surplus is discharged from the left flank over a weir $27\frac{1}{2}$ feet long, which being inadequate will be supplemented by a rough stone byewash 37 feet long to the left of it. The crest of the weir

ADANUR TANK GROUP.

being below F.T.L. will be raised to that level, and an apron of rough stone in chunam over 6 inches of concrete will also be provided (*vide* plate XVI, fig. 10). Irrigation is being carried out by a masonry sluice and a vent in the body wall of the weir, which are in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, tapering towards the flanks with side slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment wherever displaced will be removed and repacked.

Adanur Tank Sub-Group.

No. 13, IRRIGATION WORK.

TAILAPURAM TANGAL.

PLATE XVI.

This work is in charge of the Public Works Department, and is situated about a furlong north-west of the village of Tailapuram in Chingleput taluk. In addition to the drainage from its small free catchment area of 0.06 square mile, it receives the surplus of No. 14, Tailapuram tank, and discharges into Nos. 11 and 12, Madambakkam tangal and tank, at the right and left flanks, respectively, over natural escapes 42 feet and 24 feet long. The byewashes will be levelled to F.T.L., and the bund ends revetted. The existing masonry sluice for irrigation is in fair order. The bund will be made up to 3 feet above M.W.L. with a top width of 3 feet and side slopes $1\frac{1}{2}$ to 1.

Adanur Tank Sub-Group.

No. 14, IRRIGATION WORK.

TAILAPURAM TANK.

PLATE XVI.

This work is in charge of the Public Works Department, and is situated about a furlong west of the village of Tailapuram in Chingleput taluk. It receives the drainage from its small free catchment area of 0.07 square mile, and surpluses into No. 13, Tailapuram tangal, through cuts at the left flank, where a rough stone byewash 38 feet long will be provided. The existing masonry sluice is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

NILAMANGALAM TANK GROUP.

Nilamangalam Tank Sub-Group.

No. 1, IRRIGATION WORK.

NILAMANGALAM TANK.

PLATE XVI.

THIS being a private work was not investigated by the Tank Restoration Party beyond being grouped.

Nilamangalam Tank Sub-Group.

No. 2, IRRIGATION WORK.

KUTTANUR TANK.

PLATE XVI.

THIS tank is situated close to the village of Kuttanur in Conjeeveram taluk. It receives the drainage from its free basin of 0.45 square mile, and surpluses into No. 1, Nilamangalam tank, over natural ground at the right flank, where a rough stone byewash 69 feet long will be provided. There are two pot sluices and a masonry sluice for irrigation. The cistern of the masonry sluice being damaged will be dismantled and rebuilt. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

KORAKANTANGAL TANK GROUP.

Korakantangal Tank Sub-Group.

No. 1, IRRIGATION WORK.

• KORAKANTANGAL TANK.

PLATE XVI.

THIS tank is situated close to the village of Korakantangal in Conjeeveram taluk. In addition to the drainage from its free basin of 0.12 square mile, it receives the surplus of No. 2, Korakantangal kulam tangal, and discharges at its left flank over a natural byewash 94 feet long into a tributary of the Adyar. The existing pot sluice being ruined will be replaced by a new one. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

KORAKANTANGAL TANK GROUP.

Korakantangal Tank Sub-Group.

No. 2, IRRIGATION WORK.

KORAKANTANGAL KULAM TANGAL.

PLATE XVI.

THIS tangal is situated about a quarter of a mile south-east of the village of Korakantangal in Conjeeveram taluk, and receives the drainage from its small free catchment area of 0.09 square mile. It surpluses into No. 1, Korakantangal tank, over a natural byewash 60 feet long at its right flank, which is sufficient. The existing pot sluice is in fair order. The bund will be brought up to 2 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

MANNIVAKKAM TANK GROUP.

Mannivakkam Tank Sub-Group.

Nos. 1 and 3, IRRIGATION WORKS.

MANNIVAKKAM TANK AND SITTERI TANK.

PLATE XVII.

THESE tanks lie south-west of the village of Mannivakkam in Chingleput taluk, and are separated by a low cross bund with openings in it

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NOS. 1 AND 3, MANNIVAKKAM TANK AND SITTERI TANK.

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Add at the end of the third sentence in line 9 the following:—
“The ground at the site of the existing natural escape being scoured out, the escape will be closed”.

Omit the portion of sentence ‘two roughstone byewashes 177½ feet and’ in lines 9 and 10, and insert the following:—“a masonry weir 306 feet long and a roughstone byewash”.

Omit the sixth sentence in lines 13 and 14 “The existing natural escape . . . as it is”.

Note.—Necessary alterations regarding the surplus works of Mannivakkam tank and Sitteri tank should be made in plate XVII of the Adayar Minor Basin.

SITTERI bund will also be feet top width. The side slopes will be $1\frac{1}{2}$ to 1 throughout.

MANNIVAKKAM TANK GROUP.

Mannivakkam Tank Sub-Group.

No. 2, IRRIGATION WORK.

VETTAKARAN TANGAL.

PLATE XVII.

THIS tangal is situated immediately south of the village of Mannivakkam in Chingleput taluk. It receives the drainage from its free basin of 0.26 square mile, and surpluses into No. 1, Mannivakkam tank, through a cut at its left flank, where a rough stone byewash 66 feet long will be constructed. Irrigation is being conducted by two cuts in the bund, in place of which two pot sluices will be provided. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the ends.

Mannivakkam Tank Sub-Group.

No. 4, IRRIGATION WORK.

KILAMPAKKAM TANK.

PLATE XVII.

THIS tank is situated immediately north-west of the village of Kilampakkam in Chingleput taluk. It receives for its supply the drainage

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NO. 4, KILAMPAKKAM TANK.

Omit the portion of sentence "at centre . . . with slopes $1\frac{1}{2}$ to 1" in lines 11 and 12, and insert the following: "and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks. The slopes of the new earthwork will be turfed".

wherever displaced will be repacked and the whole raised to M.W.L.

Mannivakkam Tank Sub-Group.

No. 5, IRRIGATION WORK.

URAPPAKKAM TANGAL.

PLATE XVII.

THIS tangal is in charge of the Public Works Department, and is situated immediately north of the village of Urappakkam in Chingleput taluk, and receives the drainage from a small free basin of 0.11 square mile. It surpluses into No. 3, Mannivakkam sitteri tank, over natural ground at the left flank, where a rough stone byewash 49 feet long will be formed. The existing masonry sluice for irrigation will be repaired. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

MANNIVAKKAM TANK GROUP.

Mannivakkam Tank Sub-Group.

No. 6, IRRIGATION WORK.

URAPPAKKAM SITTERI.

PLATE XVII.

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*First edition, page 79.**Revised edition, page 57.*

(Issued on 1st February 1917.)

No. 7, URAPPAKKAM TANK (R.A.).

(No. 342 in P.W.D. List.)

From lines 5 to 9 of the memoir for "over a calingulah 22 feet long . . . in the body-wall of the calingulah." read "over a weir 68 feet long with crest at F.T.L. 50.50, i.e., 2 feet below M.W.L. to be constructed in place of byewash and calingulah. Irrigation is carried on by a masonry sluice and a vent in the body-wall of the weir with sill at 44.50."

Mannivakkam Tank Sub-Group.

No. 7, IRRIGATION WORK.

URAPPAKKAM TANK.

PLATE XVII.

THIS work is in charge of the Public Works Department, and is situated about a furlong south-east of the village of Urappakkam in Chingleput taluk. In addition to the drainage from its free basin of 0.58 square mile, it receives the surplus of three upper tanks, and discharges at its right flank over a calingula 22 feet long, which being inadequate a rough stone byewash 122½ feet long will be constructed to the right of it. The existing calingula will be converted into a weir (*vide* plate XVII, fig. 5). Irrigation is being managed by a masonry sluice and a vent in the body wall of the calingula. The existing sluice being damaged beyond repairs will be replaced by a new one (*vide* plate XVII, fig. 6). The bund will be made up to 4½ feet above M.W.L., with a top width of 4½ feet and slopes 1½ to 1, tapering towards the flanks. The existing revetment where displaced will be repacked. The ayacut under this tank is assisted by No. 6, Urappakkam sitteri, which has no separate cultivation under it.

MANNIVAKKAM TANK GROUP.

Mannivakkam Tank Sub-Group.

No. 8, IRRIGATION WORK.

KARANAI PUDUCHERI TANK.

PLATE XVII.

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No. 8, KARANAI PUDUCHERI TANK.

In lines 5 and 6 of the memoir for "a rough stone byewash 104 feet long will be constructed" read "a masonry calingulah 35 feet long with crest 2 feet below F.T.L. and top of dam stone at F.T.L. will be constructed to discharge the whole surplus with a head of $3\frac{3}{4}$ feet over crest."

Mannivakkam Tank Sub-Group.

No. 9, IRRIGATION WORK.

AYYANJERI TANGAL.

PLATE XVII.

This work is in charge of the Public Works Department, and is situated about a furlong north-east of the village of Ayyanjeri in Chingleput taluk, and receives the drainage from its free basin of 0.33 square mile, through No. 10, Ayyanjeri tank (breached). The existing byewash at the left flank being ineffective, the surplus is discharged over low ground at the right flank, where a paved byewash 108 feet long will be constructed. The existing masonry sluice is in fair order. A pot sluice will be provided at the right flank to command high level fields. The bund will be made up to 3 feet above maximum water level, with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Mannivakkam Tank Sub-Group.

No. 10, IRRIGATION WORK.

AYYANJERI TANK.

PLATE XVII.

This tank is situated about 3 furlongs north-east of the village of Ayyanjeri in Chingleput taluk, and is an auxiliary work to No. 9, Ayyanjeri tangal. The bund breached about 15 years before the work was inspected by the Tank Restoration Party, and no water is retained in the tank. As the work is not worth restoring, it was not estimated for by the Tank Restoration Party.

MANNIVAKKAM TANK GROUP.

Mannivakkam Tank Sub-Group.

No. 11, IRRIGATION WORK.

KARANAI PUDUCHERI TANGAL.

PLATE XVII.

THIS work is in charge of the Public Works Department, and is situated immediately south-east of the village of Karanai Puducheri in Chingleput taluk, and receives the drainage from its free catchment area of 0.24 square mile. It surpluses into No. 3, Mannivakkam Sitteri, through a cut at the left flank, which will be closed, and a natural escape, 83 feet long, will be formed near the site. The existing pot sluice being damaged will be replaced by a new one. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Mannivakkam Tank Sub-Group.

No. 12, IRRIGATION WORK.

NANDIVARAM HISSA TANK.

PLATE XVII.

THIS work is in charge of the Public Works Department, and is situated close to the village of Nandivaram in Chingleput taluk. In addition to the drainage from its free basin of 4.62 square miles, it receives the surplus of six upper tanks, and discharges from both the flanks into No. 3, Mannivakkam Sitteri. The existing weir at the left flank, 60½ feet long, is in fair order, and its body wall being 0.31 feet below F.T.L. will be raised (*vide* plate XVII, fig. 7). Weir No. 2, 61½ feet long at the right flank, is also in good order except its wings which being damaged will be rebuilt (*vide* plate XVII, fig. 8). The natural escape, 200 feet long at the right end, will be provided with a pavement of rough stone, with crest half a foot above F.T.L. There are six masonry sluices for irrigation, of which sluices Nos. 1, 2 and 6 from the left flank are in fair order; sluices Nos. 3 and 4 will be repaired, and sluice No. 5 being ruined will be replaced by a new one (*vide* plate XVII, fig. 9). The bund will be made up to 6 feet above M.W.L., with a top width of 6 feet and slopes $1\frac{1}{2}$ to 1. The existing revetment where displaced will be repacked, and the whole raised to M.W.L.

MANNIVAKKAM TANK GROUP.

Mannivakkam Tank Sub-Group.

No. 13, IRRIGATION WORK.

PERUMPATTUNELLUR TANK.

PLATES XVII & XVIII.

THIS work is in charge of the Public Works Department, and is situated about $\frac{1}{4}$ of a mile south-west of the village of Perumpattunellur in Chingleput taluk. In addition to the drainage from its free basin of 1.02 square miles, it receives a portion of the surplus of work No. 15, and discharges into No. 12, Nandivaram Hissa Tank, from both the flanks. The existing weir, 24 feet long at the left flank, being a little damaged will be repaired (*vide* plate XVIII, fig. 10). As the natural escape at the right flank proves detrimental to the wet cultivation by the surplus passing over, it will be closed and a rough stone byewash, 68 $\frac{1}{2}$ feet long, will be provided to the left of the weir. The existing masonry sluice being leaky will be repaired. A new sluice will be provided at the right flank in place of an existing cut (*vide* plate XVIII, fig. 11.) The bund will be brought up to 4 $\frac{1}{2}$ feet above M.W.L., with a top width of 4 $\frac{1}{2}$ feet and slopes 1 $\frac{1}{2}$ to 1 at centre, and tapering towards the flanks. Revetment will be provided to the bund at the deepest part of the tank up to M.W.L.

Mannivakkam Tank Sub-Group.

No. 14, IRRIGATION WORK.

PERUMPATTUNELLUR TANGAL.

PLATE XVII.

THIS work is in charge of the Public Works Department, and is situated about a quarter of a mile south-east of the village of Perumpattunellur in Chingleput taluk, and receives the drainage from its free catchment area of 0.21 square mile, in addition to a portion of the surplus from No. 15, Mannivakkam Tank. It discharges at both the flanks into No. 12, Nandivaram Hissa Tank, over natural ground escapes. The byewash at the left flank will be closed as the surplus through which proves detrimental to the cultivation, and the escape at the right end will be extended to have a total waterway of 170 feet. The existing masonry sluice is in fair order. A pot sluice will be provided at the left flank to command some high level fields. The bund will be brought up to 3 feet above maximum water level, with a top width of 3 feet and side slopes 1 $\frac{1}{2}$ to 1, tapering towards the flanks.

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No. 13, PERUMPATTUNELLUR TANK.

In the fifth and sixth line of the memoir for "from both the flanks" read "at the left flank."

Omit the third, fourth and fifth sentences of the memoir in lines 6 to 11 and substitute the following sentences:—"The tank surpluses over a masonry weir 61 $\frac{1}{2}$ feet long and a roughstone byewash 68 $\frac{1}{2}$ feet long both at the left flank. The pavement of the latter being scoured out and the site unsuitable for a byewash it will be replaced by another weir 50 feet long."

Omit the last sentence of the memoir in lines 15 and 16 and substitute the following:—"The front slope of the bund is revetted at the deep portion for a length of 3,180 feet. The revetment being low will be raised to M.W.L. with stones 1 foot thick and with 6 inches gravel backing and where displaced it will be repacked."

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Issued on 30th September 1924

Original edition.

Page 83.

Revised edition.

KANNIVAKKAM TANK.

PLATES XVII & XVIII.

THIS work is in charge of the Public Works Department, and is situated about a furlong north-east of the village of Kannivakkam in Chingleput taluk, and receives the drainage from its free basin of 0.98 square mile. Its surplus is discharged at both the flanks partly into No. 13, Perumpattunellur tank, and partly into No. 14, Perumpattunellur tangal. There are two natural ground escapes, one at each flank, and a masonry weir 35 feet long at the right flank. The natural byewash at the left end will be closed as being detrimental to cultivation on that side. The crest of the existing weir being $2\frac{1}{4}$ feet above F.T.L. will be reduced and the tambogies in it will be closed (*vide* plate XVIII, fig. 13). A new weir, 57 feet long, will be constructed at the site of the natural escape at the right flank (*vide* plate XVIII, fig. 12). The two existing sluices being leaky will be repaired. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, tapering towards the flanks, with side slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment has slipped in places, but will not be interfered with.

*Mannivakkam Tank Sub-Group.***No. 16, IRRIGATION WORK.****KAYARAMPEDU TANGAL.**

PLATE XVII.

THIS work is in charge of the Public Works Department, and is situated close to the village of Kayarampedu in Chingleput taluk. It receives the drainage from its free basin of 0.21 square mile, and surpluses into No. 12, Nandivaram Hissa tank, through a cut at the right flank, which will be closed and a rough stone byewash, 57 feet long, will be constructed at the right end. The existing masonry sluice being leaky will be repaired. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The existing revetment is in fair order.

*Mannivakkam Tank Sub-Group.***No. 17, IRRIGATION WORK.****KAYARAMPEDU SITTERI.**

PLATE XVII.

THIS small tank is situated about 3 furlongs north-west of the village of Kayarampedu in Chingleput taluk. The bund breached about 20 years before the work was inspected by the Tank Restoration Party, and no water is retained in the tank, the lands under it being irrigated by a sluice of No. 18, Kayarampedu tank. As the work is not worth restoring, it was not estimated for by the Tank Restoration Party.

MANNIVAKKAM TANK GROUP.

*Mannivakkam Tank Sub-Group.***No. 18, IRRIGATION WORK.****KAYARAMPEDU TANK.**

PLATES XVII & XVIII.

THIS work is in charge of the Public Works Department, and is situated close to the village of Kayarampedu in Chingleput taluk. It receives the drainage from its free basin of 1.72 square miles, and surpluses into No. 17, Kayarampedu sitteri (breached tank), over a calingula 32 feet long at its left flank, and into No. 12, Nandivaram Hissa tank, over a natural escape 153 feet long with crest at about 6 inches above F.T.L. at its right flank. The calingula (*vide* plate XVIII, fig. 14) and the byewash are both in fair order. There are two masonry sluices, and a vent in the body of the calingula for irrigation, which are in good order. The bund will be brought up to 6 feet above M.W.L., with a top width of 6 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks. The existing revetment at the deepest portion of the tank will be raised to M.W.L.

*Mannivakkam Tank Sub-Group.***No. 19, IRRIGATION WORK.****NANDIVARAM TANGAL.**

PLATE XVIII.

THIS work is in charge of the Public Works Department, and is situated immediately north-west of the village of Nandivaram in Chingleput taluk. In addition to the drainage from its small free catchment area of 0.05 square mile, it receives the surplus of No. 20, Kandigai tangal, and discharges into No. 3, Mannivakkam sitteri, over a natural byewash 94 feet long at the left flank. There are two masonry sluices in fair order, of which sluice No. 1 from the left flank is used to feed a temple kulam; sluice No. 2 commands the whole ayacut under the tank. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

*Mannivakkam Tank Sub-Group.***No. 20, IRRIGATION WORK.****KANDIGAI TANGAL.**

PLATE XVII.

THIS work is in charge of the Public Works Department, and is situated immediately west of the village of Nandivaram in Chingleput taluk, and has a free basin of 0.11 square mile. It surpluses into No. 19, Nandivaram tangal, at its left flank over natural ground. Irrigation is being carried out by a masonry sluice. The bund is in fair order.

MANNIVAKKAM TANK GROUP.

The tank has an ayacut of 13 acres with a nominal revenue of Rs. 45, of which only Rs. 16 are realized by the Government, and the remaining Rs. 29 are fixed remissions. Being an insignificant work no estimate was prepared for the work by the Tank Restoration Party.

MUDICHUR SIKKRIAN YERI GROUP.

Mudichur Sikkrian Yeri Sub-Group.

No. 1, IRRIGATION WORK.

MUDICHUR SIKKRIAN YERI.

PLATE XIX.

THIS tank is situated about $\frac{1}{4}$ of a mile north-east of the village of Mudichur in Saidapet taluk and is the terminal work of the group. In addition to the drainage from its free basin of 0.49 square mile.

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NO. 1, MUDICHUR SIKKRIAN YERI.

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At end of sentence "The existing sluice fair order," insert the following:—

"An additional earthenware pipe sluice has been built 390 feet to the west of the existing sluice" (*vide* letter, Dis. No. 3569, dated 2nd December 1897, from the Collector of Chingleput, to the Chief Engineer for Irrigation, Tank Restoration Scheme).

Mudichur Sikkrian Yeri Sub-Group.

No. 2, IRRIGATION WORK.

RUNGAPURAM TANK.

PLATE XIX.

THIS tank is situated about half a mile east of the village of Mudichur in Saidapet taluk. It receives the drainage from its free basin of 0.1 square mile, in addition to the surplus from Nos. 3 and 4, Perunkaluttur Sitteri and tank, and discharges into No. 1, Mudichur Sikkrian Yeri, through a cut and a natural escape 70 feet long at the left and right flanks, respectively. The waterway being inadequate, the cut will be extended to a length of 67 feet by levelling the ground to F.T.L. The existing masonry sluice is in fair order. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

MUDICHUR SIKKRIAN YERI GROUP.

Mudichur Sikkrian Yeri Sub-Group.

No. 3, IRRIGATION WORK.

PERUNKALATTUR SITTERI.

PLATE XIX.

This tank is situated about a furlong south of the village of Perunkalattur (20)

NO. 3, PERUNKALATHUR SITTERI.

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Omit the portion of the sixth sentence 'these being a little damaged will be repaired' in lines 11 and 12, and substitute the following as a portion of that sentence:—"sluice No. 3 being in a ruined condition will be blocked up and replaced by a masonry sluice at about 100 feet to the right of the old site".

Sluices Nos. 1 and 3 are of masonry and used for irrigation purposes; these being a little damaged will be repaired. Sluice No. 2 is of dry stone intended to supply a drinking water pond situated below, and is in fair order. At the left flank of the tank, there are two kuttai called Vannan kuttai and Kannar kuttai, all three having one connected waterspread, and these are treated as one work. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at the deepest part of Sitteri, and reduced towards the right flank to 3 feet above M.W.L., and 3 feet top width. The portion of bund along Vannan kuttai and Kannar kuttai will be maintained at $1\frac{1}{2}$ feet above M.W.L. The side slopes will be $1\frac{1}{2}$ to 1 throughout. The existing revetment where displaced will be repacked. This tank and No. 4, Perunkalattur tank, jointly irrigate the same ayacut, and hence no separate financial accounts are kept for this work.

Mudichur Sikkrian Yeri Sub-Group.

No. 4, IRRIGATION WORK.

PERUNKALATTUR TANK.

PLATE XIX.

This work is in charge of the Public Works Department, and is situated about $\frac{3}{4}$ of a mile south of the village of Perunkalattur in Saidapet taluk, and receives the drainage from its free catchment area of 0.68 square mile. It surpluses into No. 3, Perunkalattur Sitteri, over a loose stone calingula at its left flank, which being ineffective will be removed and replaced by a masonry weir 30 feet long (*vide* plate XIX, fig. 3). An additional rough stone byewash $91\frac{1}{2}$ feet long will be provided at the right flank. The existing irrigation sluice being a little damaged will be repaired. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at the deepest part of the tank, reduced to 3 feet above M.W.L., and 3 feet top width towards the right flank, and tapering towards the left with side slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment where displaced will be repacked.

MUDICHUR SIKKRIAN YERI GROUP.

Mudichur Sikkrian Yeri Sub-Group.

No. 5, IRRIGATION WORK.

MUDICHUR TANK.

PLATE XIX.

THIS tank is situated about a furlong south-east of the village of Mudichur in Saidapet taluk. In addition to the drainage from its free basin of 0.8 square mile, it receives the surplus of Nos. 6, 7 and 8 works, and discharges at its right flank over a weir $34\frac{1}{2}$ feet long and two loose stone calingulas into No. 1, Sikkrian Yeri. The two calingulas being ineffective will be closed. The weir is in fair order and its apron will be widened (*vide* plate XIX, fig. 4). A supplementary rough stone byewash 123 feet long will be provided at the left flank, the surplus through which will pass into No. 1, Varadarajapuram tank, the terminal work of a group of that name. There are two masonry sluices and a vent in the body wall of the weir for irrigation, all in fair order. The bund will be brought up to 6 feet above M.W.L., with a top width of 6 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks. The existing revetment where displaced will be repacked.

Mudichur Sikkrian Yeri Sub-Group.

No. 6, IRRIGATION WORK.

VENDALUR TANGAL.

PLATE XIX.

THIS tangal is situated close to the village of Vandalur in Chingleput taluk, and receives the drainage from its free basin of 0.19 square mile. It surpluses into No. 5, Mudichur tank, at its left flank over a natural escape 97 feet long, and its crest being irregular will be levelled to F.T.L. The existing masonry sluice for irrigation is in fair order. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Mudichur Sikkrian Yeri Sub-Group.

No. 7, IRRIGATION WORK.

VENDALUR TANK.

PLATE XIX.

THIS tank is situated immediately south-west of the village of Vandalur

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No. 7, VENDALUR TANK.

In the 5th line of the memoir, *omit* the words "which is adequate" and *insert* the following:—

"This arrangement being unsatisfactory a masonry weir 53 feet long will be built at the left flank end of the tank in front of the road dam. The latter will serve as an apron to the new weir."

MUDICHUR SIKKRIAN YERI GROUP.

The road from Walajabath to Vendalur is carried over the tank bund, and it is on an average about 3 feet above M.W.L. Nothing will be done to it except repairing the damages caused by the cyclone of November 1888. The existing revetment is in fair order.

*Mudichur Sikkrian Yeri Sub-Group.***No. 8, IRRIGATION WORK.**

VENDALUR OTTERI.

PLATE XIX.

THIS work is in charge of the Public Works Department, and is situated about half a mile south-east of the village of Vendalur in Chingleput taluk, and receives the drainage from its free basin of 0.35 square mile. It surpluses into No. 7, Vendalur tank, over a weir $24\frac{1}{2}$ feet long at its left flank, which is in fair order (*vide* plate XIX, fig. 5). There are two masonry sluices, and two vents in the body wall of the weir for irrigation, which are in working order. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

VARADARAJAPURAM TANK GROUP.

*Varadarajapuram Tank Sub-Group.***No. 1, IRRIGATION WORK.**

VARADARAJAPURAM TANK.

PLATE XIX.

THIS tank is situated immediately south-west of the village of Varadarajapuram in Conjeeveram taluk. In addition to the drainage from its free basin of 0.44 square mile, it receives the surplus of No. 2, Sanan tangal, and the left flank surplus of No. 5, Mudichur tank (of Mudichur Sikkrian Yeri Group), amounting to about 502 cubic feet per second. Besides the above, a supply is also received from a branch taking off from a drainage running close by. The surplus is discharged into a tributary drainage of the Adyar river through breaches in the bund, which will be closed and a rough stone paved byewash, 187 feet long, will be provided at the left flank. The existing masonry sluice for irrigation is in fair order. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the ends. A regulator with three vents, 5 feet $\times$ $3\frac{1}{4}$ feet each, will be provided at the site where the drainage branch enters the tank (*vide* plate XIX, fig. 6).

VARADARAJAPURAM TANK GROUP.

Varadarajapuram Tank Sub-Group.

No. 2, IRRIGATION WORK.

SANAN TANGAL.

PLATE XIX.

THIS tangal is situated south of the village of Mudichur in Saidapet taluk, and receives the drainage from its small free catchment area of 0.04 square mile. It surpluses into No. 1, Varadarajapuram tank, at its left flank over a natural byewash 35 feet long, which is sufficient. In place of the existing cut for irrigation a pot sluice will be provided. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

TAMBARAM PUDU TANGAL GROUP.

Tambaram Pudu Tungal Sub-Group.

No. 1, IRRIGATION WORK.

TAMBARAM PUDU TANGAL.

PLATE XX.

THIS tangal is situated about a furlong north-west of the village of Tambaram in Saidapet taluk, and is the terminal tank of the group of its name. In addition to the drainage from its free basin of 0.17 square mile, it receives the surplus of Nos. 2 and 3 irrigation works, and discharges into a tributary drainage of the Adyar river through a cut at its right flank, which will be closed, and a weir 37 feet long will be constructed near the site of the old weir.

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No. 1, TAMBARAM PUDU TANGAL.

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At the end of the memoir of the work add the following:—"The front slope of the bund will be revetted to 1 foot above M.W.L. for a total length of about 800 feet on either side of the masonry sluice".

Tambaram Pudu Tungal Sub-Group.

No. 2, IRRIGATION WORK.

TAMBARAM YETTI TANGAL.

PLATE XX.

THIS tangal is situated about a furlong north of the village of Tambaram in Saidapet taluk. It receives the drainage from its free basin of 0.05 square mile, in addition to the surplus of No. 3, Tambaram Vannan Yeri, and discharges into No. 1, Tambaram Pudu Tungal, at its right flank over a natural ground escape, which will be levelled to F.T.L. for a length of 88 feet. Irrigation is being managed by a cut in the bund, where a pot sluice will be provided. The bund will be raised to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

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TAMBARAM PUDU TANGAL GROUP.

Tambaram Pudu Tungal Sub-Group.

No. 3, IRRIGATION WORK.

TAMBARAM VANNAN YERI.

PLATE XX.

THIS tank is situated about a quarter of a mile north-east of the village of Tambaram in Saidapet taluk, and receives the drainage from its free catchment area of 0.16 square mile. It surpluses into No. 2, Tambaram Yetti Tungal, over a calingula $21\frac{1}{2}$ feet long at the right flank, which being in disorder will be replaced by a masonry weir 24 feet long at the site (*vide* plate XX, fig. 5). The existing masonry sluice for irrigation being leaky will be repaired. The bund will be raised to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The existing revetment where displaced will be repacked.

TIRUNIRMALAI TANK GROUP.

Tirunirmalai Tank Sub-Group.

No. 1, IRRIGATION WORK.

TIRUNIRMALAI TANK
(IN CHARGE OF THE PUBLIC WORKS DEPT.)
AND SITTERI.

PLATE XXI.

THESE tanks are situated about a quarter of a mile south-east of the village of Tirunirmalai in Saidapet taluk, and are treated as one work as their waterspreads join at F.T.L. In addition to the drainage from a free catchment basin of 1.20 square miles, they receive the surplus of four upper tanks, and discharge into a tributary of the Adyar over a weir $93\frac{1}{2}$ feet long at the right end of the tank, which is adequate and in good order (*vide* plate XXI, fig. 1). There are four masonry sluices for irrigation, of which sluice No. 1 is in Sitteri, and the remaining three are in the tank; all these are in fair order. The tank bund from where it abuts with the hillock will be raised to 6 feet above M.W.L., with a top width of 6 feet and reduced to $4\frac{1}{2}$ feet above M.W.L. and $4\frac{1}{2}$ feet top width towards the right flank. The portion of Sitteri bund will be maintained at $4\frac{1}{2}$ feet above M.W.L. and $4\frac{1}{2}$ feet top width. The side slopes will be $1\frac{1}{2}$ to 1 throughout. The existing revetment is in fair order; it will be raised throughout to maximum water level.

Tirunirmalai Tank Sub-Group.

No. 2, IRRIGATION WORK.

PAMMAL TANGAL.

PLATE XXI.

THIS being a private work was not investigated by the Tank Restoration Party beyond being grouped.

TIRUNIRMALAI TANK GROUP.

*Tirunirmalai Tank Sub-Group.***No. 3, IRRIGATION WORK.**

VIRARAGHAVAN YERI.

PLATE XXI.

THIS tank is situated about a mile and a quarter south-east of the village of Tirunirmalai in Saidapet taluk, and receives the drainage from its free basin of 0.26 square mile. It surpluses into No. 1, Tirunirmalai tank, over a rough stone escape 78 feet long at its right flank, which being leaky a masonry skin wall will be provided in front (*vide* plate XXI, fig. 2). The existing masonry sluice is in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1. The existing revetment where displaced will be repacked, and the whole raised to 1 foot above M.W.L.

*Tirunirmalai Tank Sub-Group.***No. 4, IRRIGATION WORK.**

KADAPPERI.

PLATE XXI.

THIS tank is situated about a quarter of a mile north-west of the village of Kadapperi in Saidapet taluk. In addition to the drainage from its free basin of 0.17 square mile, it receives the surplus of No. 5, Hissa Putteri, and discharges at its right flank into No. 1, Tirunirmalai tank, over natural ground, where a rough stone byewash 82 feet long will be formed. The cistern of the existing masonry sluice being in bad order will be rebuilt, and the tunnel being leaky will be repaired. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

*Tirunirmalai Tank Sub-Group.***No. 5, IRRIGATION WORK.**

HISSA PUTTERI.

PLATE XXI.

THIS tank is situated immediately west of the village of Kadapperi in Saidapet taluk, and receives for its supply the drainage from its free basin of 0.6 square mile. It discharges into No. 4, Kadapperi, at its left flank over natural ground, where a paved byewash $87\frac{1}{4}$ feet long will be provided. The two existing sluices for irrigation being leaky will be repaired. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, and tapered towards the flanks with side slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment is in fair order; it will be raised at the deepest part of the tank to M.W.L.

SOMANGALAM TANK GROUP.

Somangalam Tank Sub-Group.

No. 1, IRRIGATION WORK.

SOMANGALAM TANK.

PLATE XXII.

THIS work is in charge of the Public Works Department, and is situated immediately west of the village of Somangalam in Conjeeveram taluk. In addition to the drainage from its free catchment area of 1.47 square miles, it receives the surplus of No. 2, Sakkili tangal, and No. 3, Nallur tank, and also a supply of about 666 cubic feet per second from a tributary of the Adyar running close by, by means of a corambu formed by the ryots. It surpluses back into the tributary over a calingula 106 feet long, which will be converted into a weir (*vide* plate XXII, fig. 1), and as the waterway is inadequate a rough stone byewash 198 feet long will be constructed at the right flank. There are four masonry sluices for irrigation, of which the first from the left flank being totally damaged will be removed and replaced by a new work (*vide* plate XXII, fig. 2); the other sluices will be repaired. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, reduced to 3 feet above M.W.L. and 3 feet top width towards the flanks, with side slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment where displaced will be repacked, and raised to M.W.L. at the deepest part of the tank.

Somangalam Tank Sub-Group.

No. 2, IRRIGATION WORK.

SAKKILI TANGAL.

PLATE XXII.

THIS tangal is situated about a quarter of a mile east of the village of Amarambedu in Conjeeveram taluk, and receives the drainage from its free basin of 0.33 square mile. It surpluses into No. 1, Somangalam tank, at its left flank over a natural ground escape 200 feet long, which is sufficient. Irrigation is being carried out through cuts in the bund, in place of which an iron pipe sluice (*vide* plate XXII, fig. 3), and a pot sluice will be provided. The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

SOMANGALAM TANK GROUP.

Somangalam Tank Sub-Group.

No. 3, IRRIGATION WORK.

NALLUR TANK.

PLATE XXII.

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No. 3, NALLUR TANK.

After the fifth sentence of the memoir in line 10 insert the following sentence :—

“ The slopes of the new earth will be turfed.”

SOMANGALAM SITTERI GROUP.

Somangalam Sitteri Sub-Group.

No. 1, IRRIGATION WORK.

SOMANGALAM SITTERI.

PLATE XXII.

THIS tank is situated immediately north-east of the village of Somangalam in Conjeeveram taluk, and its waterspread is separated from that of No. 1, Somangalam tank (of Somangalam tank group), by a low cross bund, which, however, becomes submerged when the two tanks meet at F.T.L. It receives the drainage from its free basin of 0.79 square mile, in addition to the surplus of No. 2, Melattur tank, and discharges through a cut at its left flank into a tributary stream of the Adyar. The existing arrangement for disposing of the surplus will be allowed to continue. There are four sluices for irrigation, of which sluices Nos. 1 and 3 from the left flank are in fair order; sluice No. 2 has its front works damaged, which will be rebuilt. Sluice No. 4 is much damaged and will not be restored, as the ryots manage to draw off water by their own arrangements for the ayacut commanded by it. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, tapering towards the flanks to 3 feet above M.W.L., and 3 feet top width, with slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment where displaced will be repacked and extended for about 350 feet on both the sides, and the whole will be made up to M.W.L. The financial particulars of this work are included with those of No. 1, Somangalam tank of Somangalam tank group, and both the works irrigate the same ayacut.

SOMANGALAM SITTERI GROUP.

Somangalam Sitteri Sub-Group.

No. 2, IRRIGATION WORK.

MELATTUR TANK.

PLATE XXII.

THIS tank is situated about a mile north-east of the village of Somangalam in Conjeeveram taluk, and receives the drainage from its free basin of 0.46 square mile. It surpluses into No. 1, Somangalam Sitteri, over a natural escape 107 feet long at the right flank. The existing sluice for irrigation being damaged will be rebuilt (*vide* plate XXII, fig. 8). The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

NADUVIRAPPATTU SITTERI GROUP.

Naduvirappattu Sitteri Sub-Group.

No. 1, IRRIGATION WORK.

NADUVIRAPPATTU SITTERI.

PLATE XXIII.

THIS tank is situated about a quarter of a mile south-east of the village of Naduvirappattu in Conjeeveram taluk and is the terminal work of the In addition to the drainage from its free basin of

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NO. 1, NADUVIRAPPATTU SITTERI.

Omit the last but one sentence and insert the following :—"Irrigation is carried on by a masonry sluice, a cut and a pot sluice, of which the last two will be replaced by cement concrete pipe sluices".

Naduvirappattu Sitteri Sub-Group.

Nos. 2 and 3, IRRIGATION WORKS.

NADU TANGAL AND NADUVIRAPPATTU TANK.

PLATE XXIII.

THESE two tanks are situated close together about 3 furlongs north-east of the village of Naduvirappattu in Conjeeveram taluk, and are separated by a low cross bund which, however, gets submerged when the two waterspreads meet at F.T.L. The two tanks are treated as one work. They receive the drainage from a free catchment area of 0.84 square mile, and the surplus is discharged through cuts at the

NADUVIRAPPATTU SITTERI GROUP.

right flank of the tank and the left flank of the tangal, in place of which a rough stone byewash 93 feet long, and a weir 23 feet long, respectively, will be constructed (*vide* plate XXIII, fig. 2). There are two sluices for irrigation, one in the tangal and other in the tank, both of which being much damaged will be removed and replaced by new ones (*vide* plate XXIII, figs. 3 and 4). The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet, tapering to 3 feet above M.W.L. and 3 feet top width towards the flanks, with side slopes of $1\frac{1}{2}$ to 1. The existing revetment where displaced will be repacked. The cross bund between the two tanks will not be restored.

ERUMAIYUR TANK GROUP.

Erumaiyur Tank Sub-Group.

No. 1, IRRIGATION WORK.

ERUMAIYUR TANK.

PLATE XXIII.

THIS tank is situated immediately south of the village of Erumaiyur in Saidapet taluk, and is in charge of the Public Works Department. In addition to the drainage from its free basin of 0.11 square mile, it receives the surplus of No. 2, Erumaiyur Tumman tangal, and discharges into a tributary stream of the Adyar over a natural escape at the left end, which being inadequate and much cut up will be closed, and a weir 48 feet long will be constructed to the right of it (*vide* plate XXIII, fig. 5). There are two sluices for irrigation, which being insufficient a masonry sluice and a pot sluice will be provided (*vide* plate XXIII, fig. 6). The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet from the right end up to the left flank, where it will be brought up to 3 feet above M.W.L. and 3 feet top width, with side slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment is in fair order.

Erumaiyur Tank Sub-Group.

No. 2, IRRIGATION WORK.

ERUMAIYUR TUMMAN TANGAL.

PLATE XXIII.

THIS tangal is situated about three-fourths of a mile south-west of the village of Erumaiyur in Saidapet taluk, and receives the drainage from its free basin of 0.09 square mile. It surpluses into No. 1, Erumaiyur tank, over a natural escape 50 feet long at the right flank. There is a masonry sluice and a cut in the bund for irrigation, the latter of which will be replaced by a stoneware pipe sluice. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

PALANTANDALAM PUDUYERI GROUP.

Palantandalam Puduyeri Sub-Group.

No. 1, IRRIGATION WORK.

PALANTANDALAM PUDUYERI.

PLATE XXIV.

THIS tank is situated immediately west of the village of Palantandalam in Saidapet taluk. In addition to the drainage from its free basin of 0.25 square mile, it receives the surplus of No. 2, Vannan Kuttai, and about 96 cubic feet per second from the surplus of No. 1, Puntandalam Aiyaneri tank, of Puntandalam Aiyaneri tank group. It discharges into a tributary stream of the Adyar through a cut at its left flank, where a rough stone byewash, $82\frac{1}{2}$ feet long, will be provided. There are two sluices for irrigation, of which the first, from the left flank, being much damaged, will be removed and replaced by a pot sluice; sluice No. 2 is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Palantandalam Puduyeri Sub-Group.

No. 2, IRRIGATION WORK.

VANNAN KUTTAI.

PLATE XXIV.

THIS small tank is situated immediately south-west of the village of Palantandalam in Saidapet taluk and receives the drainage from its free basin of 0.14 square mile. It surpluses into No. 1, Palantandalam Puduyeri, over a natural escape at the left flank, which, being inadequate and inefficient, a rough stone byewash, 60 feet long, will be provided at the site. The existing masonry sluice for irrigation is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

PUNTANDALAM AIYANERI GROUP.

Puntandalam Aiyaneri Sub-Group.

No. 1, IRRIGATION WORK.

PUNTANDALAM AIYANERI.

PLATE XXIV.

THIS tank is situated about half a mile east of the village of Puntandalam in Saidapet taluk. In addition to the drainage from its free basin of 0.38 square mile, it receives the surplus of No. 2, Naduvirappattu tangal, and No. 3, Puntandalam Sitteri, and discharges into a tributary stream of the Adyar at its right flank over a weir and natural escape, 24 feet and 40 feet long, respectively. The existing weir is in fair order (*vide* plate XXIV, fig. 1). The soil at the site of the byewash being loose, a rough stone pavement, 40 feet long, will be formed. The two existing sluices for irrigation are in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1.

PUNTANDALAM AIYANERI GROUP.

*Puntandalam Aiyneri Sub-Group.***No. 2, IRRIGATION WORK.**

NADUVIRAPPATTU TANGAL.

PLATE XXIV.

THIS tangal is situated about a mile north-east of the village of Naduvirappattu in Conjeeveram taluk, and receives the drainage from its free basin of 0.11 square mile. It surpluses into No. 1, Puntandalam Aiyneri tank, over rocky ground at the left flank, and the site being irregular will be levelled to F.T.L. for a length of 50 feet. Irrigation is carried out by means of a cut in the bund, which will be replaced by a pot sluice. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

*Puntandalam Aiyneri Sub-Group.***No. 3, IRRIGATION WORK.**

PUNTANDALAM SITTERI.

PLATE XXIV.

THIS tank is situated close to the village of Puntandalam in Saidapet taluk and receives the drainage from its free basin of 0.34 square mile. It surpluses into No. 1, Puntandalam Aiyneri, over a weir and a ground escape, $18\frac{1}{2}$ feet and 39 feet long, respectively, at its right flank. The existing escapes and the masonry sluice for irrigation are all in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet, tapering towards the flanks with slopes of $1\frac{1}{2}$ to 1.

POLICHALLUR MELANDAI TANGAL GROUP.

*Polichallur Melandai Tangal Sub-Group.***No. 1, IRRIGATION WORK.**

POLICHALLUR MELANDAI TANGAL.

PLATE XXV.

THIS tangal is situated about a furlong south-west of the village of Polichallur in Saidapet taluk, and is the terminal tank of the group of its name. In addition to the drainage from its free basin of 0.49 square mile (which includes also the small free basin of No. 3, Velarkani Serar tangal) it receives the surplus of two upper tanks and discharges into the Adyar river through, cuts at the left flank, which will be closed and a natural byewash, 97 feet long, will be formed at the flank. The existing masonry sluice is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

POLICHALLUR MELANDAI TANGAL GROUP.

Polichallur Melandai Tangel Sub-Group.

No. 2, IRRIGATION WORK.

PERARI TANGAL.

PLATE XXV.

THIS tangel is situated immediately south of the village of Polichallur in Saidapet taluk and has a small free catchment area of 0.02 square mile. It surpluses into No. 1, Polichallur Melandai tangel, at its left flank over a natural ground escape, $18\frac{1}{2}$ feet long, which is sufficient. In place of the existing cut in the bund for irrigation a pot sluice will be provided. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

Polichallur Melandai Tangel Sub-Group.

No. 3, IRRIGATION WORK.

VELARKANI SERAR TANGAL.

PLATE XXV.

THIS tangel is situated about 3 furlongs south-west of the village of Polichallur in Saidapet taluk and has a very small catchment area. It surpluses at its left flank into No. 1, Polichallur Melandai tangel. The tank conjointly irrigates a portion of the ayacut of No. 1, Polichallur Melandai tangel, and, being an insignificant work, no estimate was prepared for it by the Tank Restoration Party.

Polichallur Melandai Tangel Sub-Group.

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No. 4, OTTEN ERI.

Omit the third sentence of the memoir in lines 4 and 5 and *insert* the following:—As the surplus over the cut at the right flank will affect valuable lands in rear, the cut will be closed and a calingula, $28\frac{1}{2}$ feet long, with crest 1 foot below F.T.L. and top of dam stones at F.T.L. will be constructed at the site of the cut at the left flank to discharge the whole surplus water with a head of 2 feet over crest.

Omit the fourth sentence of the memoir in lines 5 and 6 and *insert* the following:—Irrigation is carried on by a masonry sluice.

MYLAPORE TANK GROUP.

Mylapore Tank Sub-Group.

No. 1, IRRIGATION WORK.

MYLAPORE TANK.

PLATE XXVI.

THIS tank is situated in the limits of Mambalam (zemin) village, about half a mile north-east of Saidapet town in Saidapet taluk, and irrigates lands within the limits of the Madras Municipality. In addition to the drainage from its free basin of 2.81 square miles, it receives the surplus of No. 2, Mambalam (zemin) tank, and about 682 cubic feet per second from the right flank escape of No. 1, Nungambakkam tank, of Nungambakkam tank group, Sembarambakkam minor basin. It surpluses into the Adyar river at its right flank over two weirs, 60 feet and 160 feet long, respectively, and a mamul cut at the right end. Both the weirs are in fair order, except the front return of the left wing of the small weir, which, having fallen down, will be rebuilt (*vide* plate XXVI, figs. 1 and 2). There are nine masonry sluices in the tank, all in fair working order. The bund will be made up to 6 feet above M.W.L., with a top width of 6 feet, reduced to $4\frac{1}{2}$ feet above M.W.L. and $4\frac{1}{2}$ feet top width towards the flanks, with slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment where displaced will be repacked and raised to 1 foot above M.W.L. from weir No. 2 for about 1,100 feet towards the right flank, and for 3,600 feet at the left flank.

Mylapore Tank Sub-Group.

No. 2, IRRIGATION WORK.

MAMBALAM TANK.

PLATE XXVI.

THIS being a private work was not investigated by the Tank Restoration Party beyond being grouped.

TARAMANI HISSA TANK GROUP.

Taramani Hissa Tank Sub-Group.

No. 1, IRRIGATION WORK.

TARAMANI HISSA TANK.

PLATE XXVII.

THIS tank is situated immediately north of the village of Taramani in Saidapet taluk. In addition to the drainage from its free basin of 0.47 square mile, it receives the surplus of No. 2, Pallippattu tank, and portion of the surplus of No. 3, Kottur tank, amounting, in all, to 266

TARAMANI HISSA TANK GROUP.

cubic feet per second, and discharges over two weirs, 21 feet and 54 feet long, at the left and right flanks, respectively (*vide* plate XXVII, figs. 1 and 2), into the Adyar river through the Buckingham canal. The crest of weir No. 2 being 9 inches below F.T.L. will be raised; weir No. 1 is in fair order. There are four sluices and a vent in the body wall of weir No. 2 for irrigation, which are all in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, tapering towards the flanks to 3 feet above M.W.L., and 3 feet top width with slopes of $1\frac{1}{2}$ to 1 throughout.

Taramani Hissa Tank Sub-Group.

No. 2, IRRIGATION WORK.

PALLIPPATTU TANK.

PLATE XXVII.

This tank is situated immediately south-west of the village of Pallippattu in Saidapet taluk. In addition to the drainage from its free basin of 0.26 square mile, it receives the right flank surplus of No. 3, Kottur tank (about 62 cubic feet per second), and discharges into No. 1, Taramani Hissa tank, at its right flank over a rough stone byewash, 56 feet long, which, being inadequate and out of order, will be removed and replaced by a masonry weir, 80 feet long (*vide* plate XXVII, fig. 3). There are three sluices for irrigation, of which sluices Nos. 1 and 3 are in fair order; the existing tunnel of sluice No. 2 being very short, will be extended in rear. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1.

Taramani Hissa Tank Sub-Group.

No. 3, IRRIGATION WORK.

KOTTUR TANK.

PLATE XXVII.

This tank is situated immediately west of the village of Kottur in Saidapet taluk and receives the drainage from its free basin of 0.71 square mile. It surpluses into No. 2, Pallippattu tank, over a calingula, 21 feet long, at its right flank and into the Adyar river over natural ground at the left flank, where a weir, 115 feet long, will be provided (*vide* plate XXVII, fig. 4). The existing calingula will be converted into a weir (*vide* plate XXVII, fig. 5). There are three sluices for irrigation, of which Nos. 1 and 2 from the right flank are in fair order, and the head wall and portion of the tunnel of sluice No. 3 being damaged will be rebuilt. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, tapering towards the flanks with side slopes of $1\frac{1}{2}$ to 1 throughout.

KODUMBAKKAM HISSA TANK GROUP.

Kodumbakkam Hissa Tank Sub-Group.

No. 1, IRRIGATION WORK.

KODUMBAKKAM HISSA TANK.

PLATE XXVIII.

THIS tank is in charge of the Public Works Department and is situated about 3 furlongs south-west of the village of Kodumbakkam in Saidapet taluk. In addition to the drainage from its free catchment area of 1.42 square miles, it receives the surplus of No. 2, Nesapakkam tank, and discharges into the Adyar river over a weir, 190 feet long, at the right flank. The crest of the escape being $1\frac{1}{4}$ feet above F.T.L., will be lowered accordingly (*vide* plate XXVIII, fig. 1) and an additional rough stone byewash, 92 feet long, will also be provided at the right flank. There are four sluices for irrigation, all of them in fair order. A new sluice will be provided at the left flank in place of an existing cut, to command about 50 acres of land (*vide* plate XXVIII, fig. 2). The bund is in fair order, but, where low, it will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1.

Kodumbakkam Hissa Tank Sub-Group.

No. 2, IRRIGATION WORK.

NESAPAKKAM TANK.

PLATE XXVIII.

THIS tank is situated immediately south-east of the village of Nesapakkam in Saidapet taluk and receives the drainage from its free basin of 0.20 square mile. It surpluses into No. 1, Kodumbakkam tank, over a natural ground escape, 36 feet long, at the left flank, which, being inefficient and inadequate, a rough stone byewash, 46 feet long, will be provided at the site. The existing sluice for irrigation is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks.

PORUR HISSA TANK GROUP.

Porur Hissa Tank Sub-Group.

No. 1, IRRIGATION WORK.

PORUR HISSA TANK.

PLATE XXIX.

THIS tank is in charge of the Public Works Department and is situated about 3 furlongs south-west of the village of Porur in Saidapet taluk. In addition to the drainage from its free basin of 8.46 square miles, it receives the surplus of No. 2, Muppattu Vattu tangal, and discharges

PORUR HISSA TANK GROUP.

into the Adyar river over a weir, 232 feet long (*vide* plate XXIX, fig. 1), and a natural escape, 275 feet long, both at the right flank. The crest of the natural byewash is 1 foot above F.T.L. and will be allowed to remain as it is. There are five sluices for irrigation, all of them in fair order. A new sluice will be provided in place of an existing cut at the right flank (*vide* plate XXIX, fig. 2). The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, tapering towards the flanks with side slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment, where displaced, will be repacked and the whole raised to 1 foot above M.W.L.

Porur Hissa Tank Sub-Group.

NO. 2, IRRIGATION WORK.

MUPPATTU VATTU TANGAL.

PLATE XXIX.

This tangel is situated about 3 furlongs south-west of the village of Poonamallee in Saidapet taluk, and receives the drainage from its free basin of 0.28 square mile. It surpluses into No. 1, Porur Hissa tank, over a weir, $18\frac{1}{2}$ feet long, at the right flank and through a mamul cut in the bund of an adjacent kulam which has a common waterspread with the tangel. The crest of the weir being 1 foot 4 inches above F.T.L., will be reduced to that level (*vide* plate XXIX, fig. 3). The two existing sluices for irrigation are in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

NANDAMBAKKAM TANK GROUP.

Nandambakkam Tank Sub-Group.

NO. 1, IRRIGATION WORK.

NANDAMBAKKAM TANK.

PLATE XXIX.

This tank is situated immediately south of the village of Nandambakkam in Saidapet taluk. In addition to the drainage from its free basin of 0.31 square mile, it receives the surplus of No. 2, Nandambakkam tangel, and discharges into the Adyar river over a rough stone byewash, 93 feet long, at the left flank. There are two sluices for irrigation, both of which are in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

NANDAMBAKKAM TANK GROUP.

Nandambakkam Tank Sub-Group.

No. 2, IRRIGATION WORK.

NANDAMBAKKAM TANGAL.

PLATE XXIX.

THIS tank is situated about half a mile south of the village of Nandambakkam (Mount), and within the limits of the Saint Thomas' Mount Cantonment. It receives the drainage from a free catchment area of 0.17 square mile, and surpluses into No. 1, Nandambakkam tank, over a paved byewash, 71 feet long, at the left flank, which is adequate. The existing sluice for irrigation is in fair order. The bund is high enough, being about 3 feet above M.W.L. on an average, with a top width of $4\frac{1}{2}$ feet. As the work is in good order, no estimate was prepared for its repairs by the Tank Restoration Party.

ISOLATED WORKS.

No. I, IRRIGATION WORK.

SETTIPPATTU TANGAL.

PLATE II.

THIS tangal is situated about 3 furlongs north-west of Settippattu village in Conjeeveram taluk. It receives, in addition to the drainage from its free basin of 0.27 square mile, a portion of the surplus of No. 1, Manimangalam tank, of the Manimangalam tank group, calculated at 2,104 cubic feet per second, being the discharge of the two weirs at its left flank, and also a small supply of about 53 cubic feet per second, from an irrigation channel of the above tank, and from field drainages, through a gap in the bund near the right flank under the management of the ryots. It surpluses into an odai flowing into the Adyar river, over natural ground escape at the left flank, where a portion of the ground being scoured out it is proposed to provide a loose stone calingula (18)

NO. 1, SETTIPPATTU TANGAL.

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Omit the portion of the third sentence in lines 10 to 14 'where a portion of the ground . . . in continuation of it,' and substitute the following:—"where the ground being scoured out a roughstone calingulah $170\frac{1}{4}$ feet long having 41 vents of 3 feet $\times$ 2 feet each and 7 vents of $3\frac{1}{4}$ feet $\times$ 2 feet each, with 49 dam stones 6 inches square, will be provided to discharge the whole surplus with a head of $3\frac{1}{2}$ feet over crest."

No. II, IRRIGATION WORK.

AMMANAMBAKKAM LARGE TANK.

PLATE XI.

THIS being a private work, was not investigated by the Tank Restoration Party beyond being grouped.

ISOLATED WORKS.

No. III, IRRIGATION WORK.

TANDAKALANI TANGAL.

PLATE II.

THIS tangal is situated about a quarter of a mile south of the village of Karisangal in Conjeeveram taluk, and receives the drainage from its free catchment area of 0.20 square mile. It surpluses into a tributary stream of the Adyar over a natural ground escape at the right flank, which will be levelled to F.T.L. for a length of $102\frac{1}{2}$ feet. The existing masonry sluice for irrigation is in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

No. IV, IRRIGATION WORK.

VUMARA TANGAL.

PLATE XVII.

THIS tangal is situated about a furlong north of the village of Mannivakkam in Chingleput taluk, and receives the drainage from its free basin of 0.10 square mile. It surpluses into a tributary stream of the Adyar over a natural escape at the right flank, which will be levelled to F.T.L. for a length of 70 feet. A pot sluice will be provided at the site of the existing cut for irrigation. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

No. V, IRRIGATION WORK.

TAMBARAM TANK.

PLATE XX.

THIS tank is situated about a furlong south-east of the village of Tambaram in Saidapet taluk, and receives the drainage from its free catchment area of 0.36 square mile. It surpluses into a tributary stream of the Adyar over a weir, 45 feet long, at the left flank (*vide* plate XX, fig. I). The escape is in fair order. There are two sluices for irrigation, of which the first from the left flank has its head works damaged, which will be rebuilt; sluice No. 2, being out of order, will be reconstructed. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet at centre, tapering towards the flanks, with slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment where displaced will be repacked and the whole raised to 1 foot above M.W.L.

ISOLATED WORKS.

No. VI, IRRIGATION WORK.

IRUMBALUR TANK.

PLATE XX.

This tank is situated immediately east of the village of Irumbalur in Saidapet taluk, and is in charge of the Public Works Department. It receives the drainage from its free catchment area of 0.81 square mile, and surpluses into a tributary stream of the Adyar over a weir 25 feet long at the left flank (*vide* plate XX, fig. 2), which being inadequate will be supplemented by a rough stone byewash 69 feet long also at the left flank. There are two sluices for irrigation, of which the first from the right flank is in fair order; sluice No. 2 will be provided with a new head to facilitate regulation. The bund will be brought up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet from the right flank to the existing weir, beyond which, it will be reduced to 2 feet above M.W.L. and 3 feet top width, with slopes of $1\frac{1}{2}$ to 1 throughout. The existing revetment will be extended on both sides and raised to 1 foot above M.W.L.

No. VII, IRRIGATION WORK.

PIRKANKARANAI TANK.

PLATE XX.

This tank is situated about a quarter of a mile south-east of the village of Pirkankaranai in Saidapet taluk, and is in charge of the Public Works Department. It receives the drainage from its free catchment area of 0.30 square mile, and surpluses into a tributary stream of the Adyar through cuts at the right flank, which will be closed and a rough stone byewash 101 feet long will be provided at the flank. The existing sluice for irrigation is in fair order. The bund will be raised to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1, tapering towards the flanks. The existing revetment is in fair order.

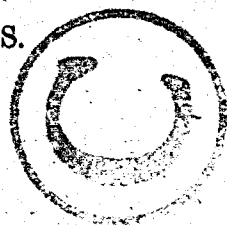
No. VIII, IRRIGATION WORK.

NINAYERI.

PLATE XXI.

This tank is situated about a mile south-west of the village of Tirunirmalai in Saidapet taluk, and receives the drainage from its free catchment area of 0.17 square mile. It surpluses into a tributary stream of the Adyar over a rough stone byewash 88 feet long at the left flank, which is adequate. There is a masonry and a pot sluice for irrigation, both of which are in fair order. The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

ISOLATED WORKS.



No. IX, IRRIGATION WORK.

PULIKKORADU JADAMANERI.

PLATE XXI.

This tank is situated between two hills in Pulikkoradu village in Saida-pet taluk, and receives the drainage from its free basin of 0.19 square mile. It surpluses into a tributary stream of the Adyar through a cut at its left flank, where a masonry weir $49\frac{1}{2}$ feet long will be constructed (*vide* plate XXI, fig. 3). The existing sluice for irrigation is in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet, and slopes $1\frac{1}{2}$ to 1, tapering towards the ends.

No. X, IRRIGATION WORK.

(2)

(Issued on 9th March 1917.)

Page 106 of first edition.

Page 75 of revised edition.

No. X, AMARAMBEDU TANK.

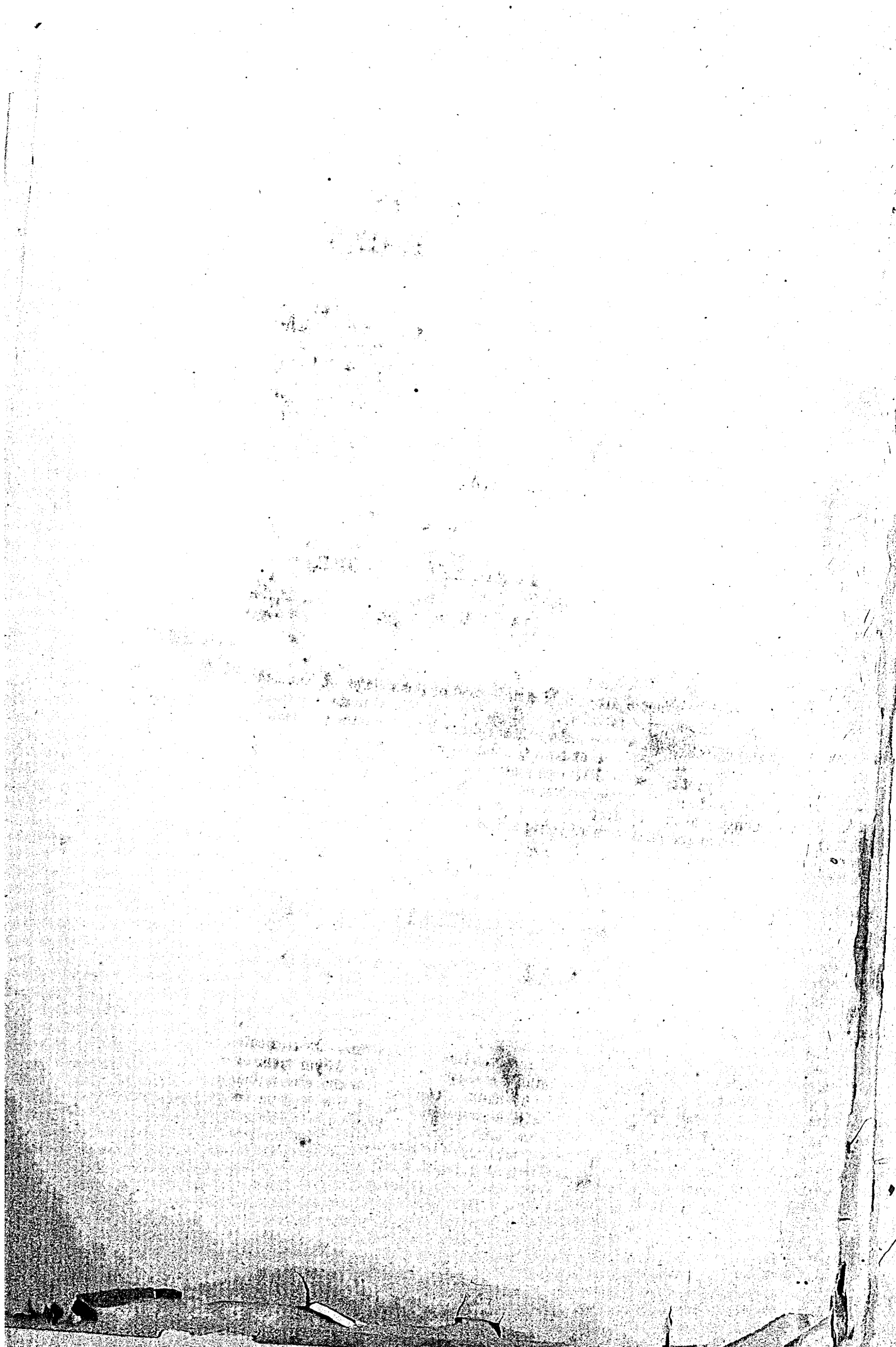
(No. 302 in P. W. D. List.)

Delete the fourth sentence of the memoir and insert the following:—

"As there is wastage of water under the calingulah it is proposed to convert the calingulah to a weir similar to the one at the right flank."

Delete the fifth and sixth sentences of the memoir and insert the following:—

"There are three sluices to the tank of which Nos. 2 and 3 are of the tower head design and No. 1 is a vent under the calingulah itself for which an opening $9" \times 6"$ will be left at the bottom of the body wall. The barrel of sluice No. 3 will be extended with a front tunnel for a leading channel as it is found to be short. The No. 4 sluice contained in the Tank Restoration Scheme memoir is only a head sluice to the tank from the supply channel."



ISOLATED WORKS.

No. XI, IRRIGATION WORK.

PUNTANDALAM LARGE TANK.

PLATE XXIV.

THIS tank is situated immediately north-west of the village of Puntandalam in Saidapet taluk, and receives the drainage from its free catchment area of 0.54 square mile. It surpluses into a tributary stream of the Adyar over a calingula 19 feet long at the left flank, which being inadequate another weir $35\frac{1}{2}$ feet long will be constructed to the left of it (*vide* plate XXIV, fig. 3). The existing calingula will be converted into a weir (*vide* plate XXIV, fig. 4). There is a sluice for irrigation, which is in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1. The existing revetment where displaced will be repacked.

No. XII, IRRIGATION WORK.

NANDAMBAKKAM TANK.

PLATE XXIV.

THIS tank is situated about half a mile west of the village of Nandambakkam in Saidapet taluk, and receives the drainage from its free catchment area of 0.28 square mile. It surpluses into a tributary stream of the Adyar, through cuts at both the flanks, which will be closed, and a natural ground escape 107 feet long will be formed at the right flank. The existing sluice for irrigation is in fair order. The bund is high enough, about $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet, except at the flanks where being slightly low it will be raised.

No. XIII, IRRIGATION WORK.

MINAMBAKKAM TANK.

PLATE XXV.

THIS tank is situated immediately south of the village of Minambakkam in Saidapet taluk, and receives the drainage from its free catchment area of 0.32 square mile. It surpluses into the Adyar river over a weir 90 feet long at the left flank. The crest of the escape being below F.T.L., a skin wall will be built in front of the existing body wall at that level (*vide* plate XXV, fig. 1). There are two masonry sluices for irrigation, both of which are in fair order. The bund will be made up to $4\frac{1}{2}$ feet above M.W.L., with a top width of $4\frac{1}{2}$ feet and slopes $1\frac{1}{2}$ to 1.

ISOLATED WORKS.

No. XIV, IRRIGATION WORK.

SENNEL TANGAL.

PLATE XXV.

THIS tangal is situated close to the village of Polichallur in Saidapet taluk, and receives the drainage from its small free catchment area of

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NO. XIV, SENNEL TANGAL.

PAGE 108.

For the sentence "Irrigation bund" (lines 5 and 6), substitute the following:—

"Irrigation is carried on by two earthenware pipe sluices" (*vide* letter, Dis. No. 3569, dated 2nd December 1897, from the Collector of Chingleput, to the Chief Engineer for Irrigation, Tank Restoration Scheme).

NALLARKULAM TANGAL.

PLATE XXV.

THIS tangal is situated immediately east of the village of Polichallur in Saidapet taluk, and receives the drainage from a small free catchment area of 0.04 square mile. It surpluses into the Adyar river

(2)

NO. XV, NALLARKULAM TANGAL.

PAGE 108.

For the sentence "Irrigation bund" (lines 5 and 6), substitute the following:—

"Irrigation is carried on by a cut in the bund, in place of which an earthenware pipe sluice will be provided"—*vide* Proceedings of the Board of Revenue (Settlement, Land Records and Agriculture), Mis. No. 4794, dated 2nd July 1897.

No. XVI, IRRIGATION WORK.

ANAKAPUTTUR KALMADUGU TANGAL.

PLATE XXV.

THIS tangal is situated immediately south of the village of Anakaputtur in Saidapet taluk, and receives the drainage from its free catchment area of 0.16 square mile. It surpluses into the Adyar river over low rocky ground at the left flank, where a masonry weir 45 feet long will be constructed (*vide* plate XXV, fig. 3). The existing sluice for irrigation having been washed away, will be replaced by a new one (*vide* plate XXV, fig. 2). The bund will be made up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.

ISOLATED WORKS.

No. XVII, IRRIGATION WORK.
TARAMANI TANGAL.

PLATE XXVII.

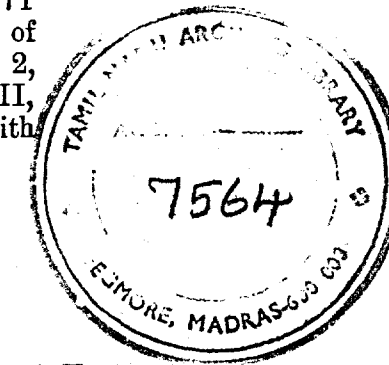
THIS tangel is situated about a quarter of a mile south-east of the village of Taramani in Saidapet taluk, and receives the drainage from a small free catchment area of 0.07 square mile. It surpluses into the Buckingham canal through a cut at the right flank where a rough stone byewash $36\frac{1}{2}$ feet long will be provided. The existing sluice for irrigation is in fair order. The bund will be made up to 3 feet above M.W.L. with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1. The financial particulars of this work are included with those of No. 1, Taramani Hissa tank, of the Taramani Hissa Tank Group.

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No. XVIII, IRRIGATION WORK.
RAMAPURAM PALAN TANGAL.

PLATE XXVIII.

THIS tangel is situated about half a mile east of the village of Ramapuram in Saidapet taluk, and receives the drainage from a free catchment area of 0.19 square mile. It surpluses into the Adyar river over low ground at the right flank, where a rough stone byewash 71 feet long will be provided. There are two sluices for irrigation, of which the first from the right flank is in fair order, and sluice No. 2, being damaged will be replaced by a new one (*vide* plate XXVIII, fig. 3). The bund will be brought up to 3 feet above M.W.L., with a top width of 3 feet and slopes $1\frac{1}{2}$ to 1.



No. XIX, IRRIGATION WORK.
RAMAPURAM PUDU TANGAL.

PLATE XXVIII.

(3)
NO. XIX, RAMAPURAM PUDU TANGAL.

PAGE 109.

In continuation of the 2nd sentence of the memoir in line 4 add the following:—

“where the site being unsuited and ring bunded to maintain F.T.L. a rough stone calingulah 18 feet long with crest 1 foot below F.T.L. will be provided to discharge the whole surplus water with a head of 2 feet over crest.”

JUNE 1900.