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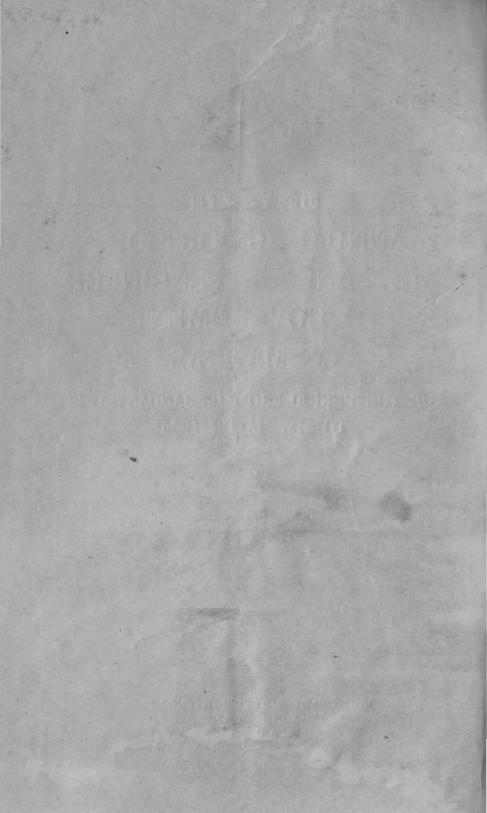
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FIFTY-SIXTH ANNUAL REPORT OF THE SANITARY ENGINEER TO GOVERNMENT OF MADRAS

FOR THE PERIOD FROM 1st JANUARY 1945 TO 31st MARCH 1946 (Not to be sent up to Simla) PUNJAB CIVIL SECRETARIAT LIBRARY COPY

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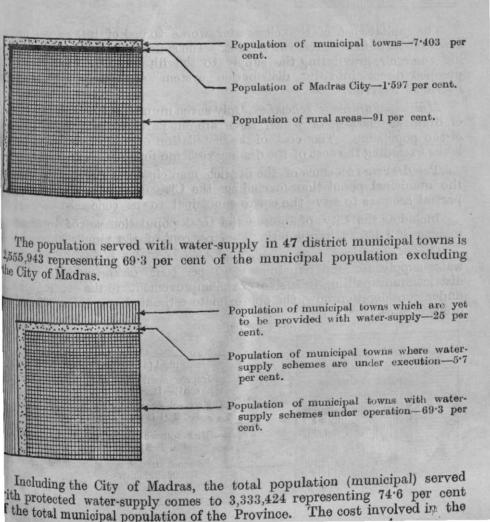


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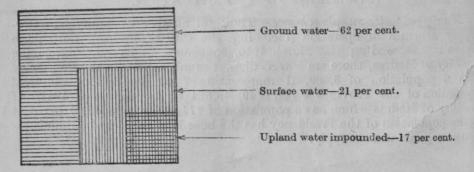
FIFTY-SIXTH ANNUAL REPORT OF THE SANITARY ENGINEER TO GOVERNMENT OF MADRAS FOR 1945-46 (1st JANUARY 1945 TO 31st MARCH 1946).

1. SUMMARY OF THE SITUATION.

Municipal water-supply schemes.—The total number of municipal watersupply schemes in operation (including the City of Madras), during the fifteen months ending 31st March 1946, continued to be 48. Excluding the City of Madras, there are now 83 district municipalities in the Presidency with a population of 3,689,931 representing 7.403 per cent of the total population of the Province which is 49,840,564 as per census of 1941. If the City of Madras which has a population of 777,481 is included, 9 per cent of the population of the Presidency has the benefit of municipal administration as regards water-supply.



installation of these district municipal schemes, excluding the City of Madras is Rs. 270 lakhs in round figures. Of these 47 schemes in operation, 9 have gravitational supplies while 34 are pumping and 4 are both by gravitation and by pumping according to the adequacy of the yield at the sources. Of these 47 schemes in operation, 29 schemes or 62 per cent represents ground water-sources, 8 schemes or 17 per cent are upland impounded sources and 10 schemes or 21 per, cent are sources with surface waters from rivers and canals.



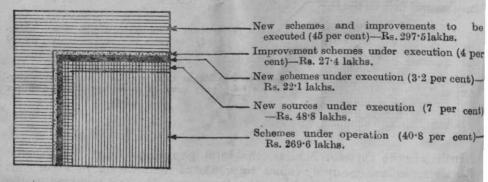
The capital cost of the city water works to end of 1945 as per figures available at present is Rs. 162.2 lakhs. The source of supply is an impounding reservoir, gravitating the supply to the filters. The filtered water is pumped direct into the distribution system controlled by a balancing overhead reservoir.

Municipal drainage schemes.—Only seven municipalities have the benefit of drainage schemes, of which three are but partial, serving only a portion of the population. The cost of the installation of these schemes is Rs. 63 lakhs excluding the cost of the drainage scheme for the City of Madras.

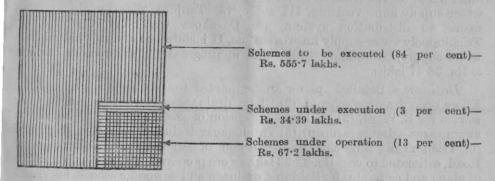
The drainage schemes of the district municipalities serve 14 per cent of the municipal population (excluding the City of Madras), assuming the partial schemes to serve the entire municipal towns concerned.

Including the City of Madras, the total population served by drainage schemes is 1,356,282 representing 30.7 per cent of the municipal population.

Cost of municipal water-supply and drainage sclemes ahead.—To provide water-supply for the remaining 30.7 per cent of the population of the district municipalities, inclusive of the improvements to the existing schemes under consideration now, the approximate estimated cost is Rs. 396 lakhs at pre-war rates.



To provide drainage schemes to serve the remaining 86 per cent of the municipal population the probable cost is Rs. 665.96 lakhs, at pre-war rates, of which schemes estimated to cost Rs. 34.39 lakhs are under execution.



Thus for the major water-supply and drainage schemes ahead, for the municipal towns, an expenditure of Rs. 1,061.96 lakhs approximately has to be incurred including schemes under execution at present.

Panchayat water-supplies.—Twelve panchayats had been provided with protected water-supply schemes though in some cases the supply is but partial. The cost involved in the installation of these schemes is Rs. 9.64 lakhs. No estimate, however, has been prepared as to the work ahead so far as these panchayats are concerned, of which there are 6,336 in the Province.

2. PROGRESS IN 1945-46 (1st JANUARY 1945 to 31st MARCH 1946).

(a) MUNICIPAL SCHEMES.

Execution.

Water-supply.—Ten schemes of water-supply continued to be under execution by the Public Works Department at an estimated cost of Rs. 99.33 lakhs. The outlay of expenditure during the period was Rs. 5.85 lakhs and the total expenditure on these schemes at the close of the period was Rs. 69.44 lakhs. Seven schemes continued to be under execution by the Municipal Engineering staff under the supervision of the Public Works Department estimated to cost Rs. 7.75 lakhs. The expenditure during the period was Rs. 0.223 lakh and the total expenditure to the end of the period was Rs. 4.65 lakhs.

Drainage.—Five drainage schemes estimated to cost Rs. 28.94 lakhs continued to be under execution by the Public Works Department. The total expenditure during the year was Rs. 3.09 lakhs and the total expenditure to the end of March 1946 was Rs. 12.03 lakhs. Salem drainage scheme continued to be carried out by the municipality under the supervision of the Public Works Department. The cost of the scheme was Rs. 5.45 lakhs and the expenditure during the period Rs. 0.90 lakh and the total expenditure to the end of the period Rs. 3.02 lakhs.

Design.

Water-supply.—Detailed plans and estimates for Trichinopoly water-supply (rectification of defects, duplicate line for old well No. 1 to Collecting well) estimated to cost Rs. 1.20 lakhs were prepared and sent. As a special case, detailed plans and estimates for water-supply to Tungabhadra Project distribution system, Filter bed and reservoir estimated to cost Rs. 3.21 lakks were also prepared and sent. Preparation of plans and estimates for six other schemes (1) Cocanada water-supply improvements, I stage, (2) Cocanada water-supply improvements, III stage, (3) Tanjore water-supply improvements to distribution system, (4) Devakota water-supply scheme, (5) Trichinopoly water-supply improvements, II instalment and (6) Chidambaram water-supply, Coagulation tank, was in progress. Their approximate cost is Rs. 38:47 lakhs.

Drainage.—Detailed plans and estimates for six drainage schemes (1) Ellore open drainage scheme, (2) Ellore drainage—alternative proposals for sewers for E. Ward, (3) Madura—Extension of sewage farm, (4) Vizagapatam swamp area—drainage (open), (5) Virudunagar drainage (restricted scheme) and (6) Trichino poly municipality—Diversion of sullage from West Bouleward Road, estimated to cost Rs. 32.22 lakhs were prepared and sent. Preparation of plans and estimates for Saidapet drainage and sewerage scheme for Vizagapatam (swamp area) estimated to cost Rs. 17.92 lakhs were in progress.

An outline for the sewerage scheme for Tungabhadra Project colony was also prepared as a special case and sent to the Chief Engineer for Irrigation.

Investigations.

Water-supply.—The investigations of water-supply schemes for three municipalities—Chittoor, Gudivada and Mangalore—estimated to cost Rs. 70 lakhs were in progress during the period and the investigation report for Gudivada water-supply estimated to cost Rs. 4.56 lakhs was sent during the period.

Drainage.—The investigations of drainage schemes for (1) Ootacamund (supplemental drainage), (2) Disposal of stormwater from water-logged areas in West Mambalam-Kodambakkam area, (3) Tiruppattur (Vellai Vaikal improvements) estimated to cost Rs. 8·10 lakhs were in progress during the period and the investigation report for Ootacamund Drainage (supplemental) and the investigation report regarding disposal of stormwater from water-logged areas in West Mambalam-Kodambakkam, etc., estimated to cost Rs. 7·80 lakhs were sent during the period. Besides these, investigation of drainage for Lady Willingdon Leper Sanatorium at Tirumani (near Chingleput) estimated to cost Rs. 0·96 lakh was in progress.

(b) PANCHAYATS.

Water-supply.

Execution.—Two schemes estimated to cost Rs. 2.80 lakhs were under execution by the Public Works Department. The expenditure during the year was Rs. 0.35 lakh and the total expenditure to the end of the year was Rs. 2.58 lakhs.

Design.—Detailed plans and estimates for water-supply improvements, Manaparai Panchayat, estimated to cost Rs. 0.31 lakh were prepared and sent. Detailed plans and estimates for Salur water-supply scheme at a cost of Rs. 1 lakh were prepared during the year.

Investigation.—The investigation of water-supply for Kollegal Panchayat was carried out during the year and report also sent. The estimated cost of the Kollegal water-supply scheme is Rs. 5.83 lakhs.

Preliminary reports.—Preliminary report for Pattukkottai Panchayat water-supply scheme with alternative proposals estimated to cost Rs. 1.85 lakhs and Rs. 1.58 lakhs, respectively, were also sent during the period.

Drainage.

There are no drainage schemes worthmentioning functioning in panchayats.

Investigations in panchayat areas—Nil. Preliminary reports sent.—Nil.

3. PROFESSIONAL SANCTION FOR SANITARY WORKS.

With the abolition of classification of works as 'Sanitary' and 'Non-Sanitary' in G.O. No. 130, P.H., dated 18th January 1943, this department is now concerned with technical sanction only of water-supply and drainage works. During the period under report plans and estimates for 30 works (minor water-supply and drainage works aggregating to Rs. 3.17 lakhs) were scrutinized and technical sanction was accorded for same. Of these, 22 were for water-supply works estimated to cost Rs. 2.11 lakhs, and 8 for drainage works estimated to cost Rs. 1.06 lakhs. The amount of centage charges collected during the year for such scrutiny was Rs. 568.

In addition proposals for water-supply and sanitary installations for educational institutions received from the Director of Public Instruction were also scrutinized.

The scrutiny of plans and estimates for rural water-supply schemes received from the Board of Revenue was also done during the year.

4. GENERAL SANITATION AND TYPE: DESIGNS.

The special staff sanctioned for the preparation of type designs having been disbanded in 1943, no fresh type designs have been prepared.

5. WATER WORKS IN OPERATION.

(a) Significant facts in their maintenance.—As against 47 municipalities possessing water works, 44 municipalities have got competent Municipal Engineers.

Bye-laws relating to water works of municipalities continued to be examined and revised by this office in virtue of powers delegated by Government to the Sanitary Engineer to Government.

(b) Rate of water-supply per head per day.—A graph representing the rate of water-supply per head per day is attached as Appendix II.

There has been improvement in the rate of supply for Madras. The consumption per head in 1945 as per figures available was 30.7 gallons per day.

6. WATER WORKS FINANCE-RATE OF TAXATION.

The detailed particulars required for furnishing the information in this paragraph are not available for the period under report.

A graphical representation showing the cost per million foot gallon of pumpage of water is attached to the report as Appendix I.

7. POST-WAR DEVELOPMENT SCHEME.

A revised programme of works for water-supply and drainage schemes estimated to cost Rs. 25.6 erores (at pre-war rates) spreading over a period of 20 years with expenditure limited to Rs. 3.71 erores for the first 5 years was prepared and sent. Estimates relating to machinery, mathematical instruments, labour, quantity and cost of materials required for the first 5 years

FIFTY-SIXTH ANNUAL REPORT OF THE SANITARY ENGINEER TO GOVERNMENT, 1945-46

were also prepared and sent. The compendium of provincial requirements both for water-supply and drainage was prepared and sent.

8. GENERAL.

(a) The Instructor in Elementary Sanitary Engineering continued to conduct the course of Lectures in Elementary Sanitary Engineering to the students undergoing Health Officer's and Sanitary Inspector's courses in the Madras Medical College. The Instructor was also in charge of training rural wells sub-overseers for rural water supply schemes, a four-month course which was started in October 1945.

(b) The Sanitary Engineer to Government continued to be a member of the Board of Public Health and was also the President of the Water and Sewage Purification Committee so long as the post of Sanitary Engineer to Government was held by Sri Rao Bahadur A. R. Venkata Acharya, i.e., till 1st October 1945, afternoon. Thereafter the Sanitary Engineer to Government continues to be a member of the Water and Sewage Purification Committee. The Sanitary Engineer continued to be a Special Councillor of the Corporation of Madras. He is also the Inspecting officer of Grant-in-aid Works in the Corporation of Madras (other than Road and Electrical works) and in this duty he continues to be assisted by a Junior Engineer. The Sanitary Engineer was also a member of the Housing Committee constituted for providing housing accommodation for Government servants.

(c) Direction personnel.—The post of Sanitary Engineer to Government was held by Sri Rao Bahadur A. R. Venkata Acharya, B.E., I.S.E. (new Chief Engineer for Irrigation) till 1st October 1945, afternoon.

Sri S. Rajagopalan, B.E., then Executive Engineer (Public Health), Northern Circle, held additional charge of the Sanitary Engineer's post from 1st October 1945, afternoon to 6th December 1945, afternoon.

From 6th December 1945, afternoon the post of Sanitary Engineer to Government is held by Sri S. Ramachandra, B.E., A.M.I.C.E., M.INST.M. & CY.E.

The post of Executive Engineer (Public Health), Northern Circle, was held by Sri S. Rajagopalan, B.E., during the year.

Sri R. Lakshmana Ayyar, B.E., held the post of Executive Engineer (Public Health), Southern Circle, during the year, except for the period 14th April 1945, forenoon to 14th May 1945, forenoon when he was on leave and during this leave period Sri K. Acharyulu (C.E.), Executive Engineer, Public Works Department, officiated as Executive Engineer (Public Health), Southern Circle.

The post of Personal Assistant to the Sanitary Engineer to Government was held by Sri V. A. Krishnaswami Ayyar, B.E., during the year.

Sri A. Vaidyanathan, B.E. (Mechanical Engineer), GRAD.I.E.E., held the post of Mechanical Expert throughout the year.

The post of Assistant Mechanical Engineer was held by Sri A. K. S. Ayyar (now deceased) from 1st January to 19th March 1945 and Sri A. Vaidyanathan, Mechanical Expert held additional charge of the Assistant Mechanical Engineer's post from 19th March 1945 till the end of the year.

The report of the Mechanical Inspecting staff on the pumping plants in the Municipal and Panchayat Board Water-supply and Drainage works for the period ending 31st March 1946 is also attached.

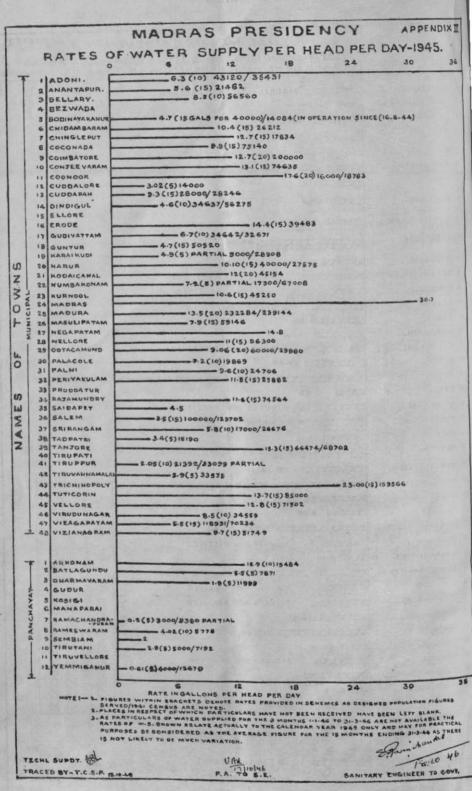
> S. RAMACHANDRA, Sanitary Engineer to Government

22nd October 1946.

APPENDIX I

	MADRAS PRESIDENCY	APPENDIX I
NAME OF TOWNS	COST PER. MILLION FOOT GALLON'S OF WAT BASED ON MECHANICAL INSPECTING STAFFS	
ANANTAPUR.	P FIGURES NOT RECEIVED	031
ARKONAM. (P.B.)	10.26	
BATLAGONDU (D.B)	27.30	
BELLARY.	15.30	
5 BEZWADA.	5.75 6.75	
CHIDAMBARAM	111111111111111111111111111111111111111	
CHINGLEDUT	10.10	
COCANADA.	/3.50	
CONJEEVARAN.	33.31	
CUDDALORE.	42.90	
CUDDAPAH.	16.60	
and the second sec	FIGURES NOT RECEIVED.	
BINDIGUL.	FIGURE NOT DECEMED	
4 ELLORE.	XXXXXXXXXXXXX	
ERODE.	A REAL PROPERTY OF A REAL PROPER	
GUDIYATTAM.	111111 /6.50	
GUDUR (D.B)	FIGURES NOT RECEIVED	
GUNTUR.		
	24.50	
KARAIKUDI.		119.20
KARUR	11.68	
Kosal. (p.B)	FIGURES NOT RECEIVED.	
KUMBAKONAM.	FIGURES NOT RECEIVED (B.H. Nº2)	
3 KURNOOL.	17.15	
MADURA.	6.01 (KOCHADAI) 44.30 (ARAPALAYAM)	
MANAPARAI. (P.B)	36.40	
MASULIPATAM.	FIGURES NOT RECEIVED.	
NEGAPATAM.	25.22	CAMPAGE LET ST
NELLORE.	15.60	2
PALACOLE.	50.60	MOTOR VE te GINE
PRODDATUR.		
RAJAHMUNDRY.	FIGURES NOT RECEIVED	ENGINE ENGINE ENGINE
RAMESWARAM.(P-8)	3333 8.10	CTRIC ENGII ENGII AMEN
SAIDADET.	70.50	A S A S
SEMBIAM (P.8)	FIGURES NOT RECEIVED	I STATISTICAL MODEL STATISTICS
	FIGURES NOT RECEIVED	
SRIRANGAM.	111111 18.8/ W	
TADPATRI.	11111111111111111111111111111111111111	
TANJORE.	STSY 5.80	
TIRUPPUR.	FIGURES NOT RECEIVED	
TIRUVANNAMALAI.	12.53	12218
TRICHINOPOLY.	33 5.28	
TIRUVELLORE. (P-B)	FIGURES NOT RECEIVED	
Thursday	1117 10.39	
TUTICORIN.	FIGURES NOT RECEIVED	
VELLORE.	FIGURES NOT RECEIVED	
VELLORE.	131 9.73	a the
VELLORE. VIRUDHUNAGAR.		chamehan Ma
VELLORE.	9.73	Spamehander 13-10-11

APPENDIX II



APPENDIX III.

Report of the Mechanical Inspecting Staff on the Pumping Plants in Municipal and Panchayat Boards' Water-works for 1945.

Serial number.	Name of the	statio	n.		Cost per million foot gallons pumped in annas,	Daily average number of hours of pumping.	Maximum number of hours of pumping in a day.	Minimum number of hours of pumping in a day.	Remarks.
						Mun	icipalities.		
1	Anantapur								Figures not yet furnished.
2	Bellary	••	••		15.30	24.16	24.00	24.00	(Gas engine and oil engine units.) An oil engine unit was installed in 1943 and is working satisfactorily.
3	Bezwada		•••		6.75	22.20	24.00	7.00	(Electrical units.) The plants worked satisfactorily.
4	Chidambaram				31.20	17.10	24.00	13.00	(Electrical units.) The units worked satisfactorily.
5	Chingleput	••	•••		10.10	16.00	20.15	9•00	(Electrical and gas units.) Only electrical is in daily commission. Gas engine units are kept as stand-by.
6	Cocanada	••			13.20	14.30	18.30	11.00	(Electrical and steam units.) Old steam plant is still retained as a stand-by for electrical unit now in opera- tion. These are being replaced by new electrically
	Charles and a strength							Tate 1 sector	driven units.
7	Conjeeveram	••	••		33.31	27.40	65.00	22.00	(Steam and gas units.) Running cost has risen due to higher cost of fuels (coal and charcoal) and the increasing inefficiency of these old units. These are being replaced by electrically driven units.
8	Cuddalore			••	42.90	12.50	16.30	7.00	(Electrical and oil engine units.) The units worked satisfactorily.
9	Cuddapah	••			16.60	12.22	18.10	2.27	(Electrical units.) These are new units installed at Pennar Water-works and worked satisfactorily.
10	Dindigul		•••	••					(Steam and electrical units.) Figures not yet furnished.
11	Ellore								(Steam units.) Figures not yet furnished.
12	Erode		. · · . 8		16.50	23.13	24.00	17.15	(Electrical units.) High and low lift electrical units worked satisfactorily.
13	Gudiyattam *				21.50	13.45	22.00	9.45	(Gas engine units.) The units worked satisfactorily.
14	Guntur		••		24.50	12.00	13.00	12.00	(Oil engine units.) The working cost should be considered satisfactory for the size of plant.
15	Karaikudi	g	12-4 ·		119.20	3.00	5.00	2.00	(Electrical units.) The units worked satisfactorily. The high running cost is due to small size of plant and few hours daily run. Also some major repairs and rene- wals were carried out during the year.
16	Karur	••			11.68	15.26	24.00	8.00	(Electrical units.) The units worked satisfactorily.

APPENDIX III

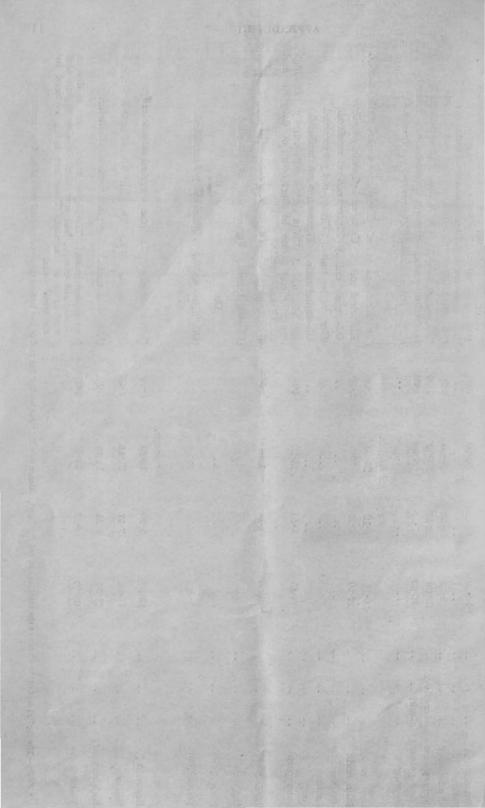
Serial number.	Name of the station.	Cost per million foot gallons pumped in annas,	Daily average number of hours of pumping.	Maximum number of hours of pumping in a day.	Minimum number of hours of pumping in a day.	Remarks.
			Municip	alities—cont.		
17	Kumbakonam (bore-hole No.	1). 18•14	9*20	22.00	1.00	(Electrical and oil-engine units.) One electrical unit trans- ferred from bore-hole No. II worked from 24th January to 11th November 1945 in lieu of the oil engine. The unit worked satisfactorily.
18	Kumbakonam (bore-hole No. 2	2)		 IR		(Electrical unit.) Figures not yet furnished. The newly installed electrical units at Valespettah headworks worked from 11th November 1945.
19	Kurnool	17.15	19•30	24.00	2.00	(Electrical and gas units.) The plants worked satis- factorily. The gas engine unit is being worked for longer hours due to curtailment in hours of electrical supply by the local electrical power station.
20	Madura (Kochadai)	6.01	13.20	26.50	13.16	(Electrical units.) The units worked satisfactorily and economically.
21	Madura (Arapalaiyam)	44.30	12.30	13.30	13.00	(Steam engine units.) The running cost should be consi- dered satisfactory for the age of the plant and the present high cost of the fuel and lubricating oil.
22 23	Maganatam		20-15	 24·00	16.00	(Electrical units.) Figures not yet furnished. (Steam units.) The high running cost is due to high cost
24 25 26 27	Palacole Proddatur	15.60 50.60 	12·20 12·43 20·00	19·00 17·45 24·00	8·30 10·00 12·00	of fire-wood and low quality coal. (Electrical units.) The plant worked satisfactorily. (Oil-engine units.) The plant worked satisfactorily. (Steam engine units.) Figures not yet received. (Electrical units.) High and low lifts—plants worked
28	Saidapet					satisfactorily. (Electrical and oil engine units.) Figures not yet fur- nished.
29 30	Tedantai	. 18·81 44·80	8·35 11·00	15.00 13.30	6·00 7·45	(Electrical units.) The unit worked satisfactorily. (Oil-engine unit.) The high running cost is due to small size of plant and intermittent working.
31	Tanjore	5.80	14.45	20.00	9•25	(Electrical and steam units.) Electrical units run regu- larly while steam units are kept as stand-by for use during emergency.
32 33	Tiruppur Tiruvannamalai	12.58	8.24	15.30	··· 7·15	(Electrical units.) Figures not yet furnished. (Oil and electrical units.) The electrical units worked satisfactorily. Oil-engine unit was kept as stand-by to be used when an emergency arises.

Report of the Mechanical Inspecting Staff on the Pumping Plants in Municipal and Panchayat Boards' Water-works for 1945-cont.

and the second se									Contraction of the second s
34	Trichinopoly				5-28	45.3	53*00	41.30	(Three electrical units.) Two of them being run in parallel, one electrical unit is under partial repair
35	Tuticorin				* 10•39	16.00	20.00	5*45	condition. The two units were running satisfactorily. (Oil-engine units.) The units worked satisfactorily.
36	Vellore								(Gas engine units). Figures not yet furnished.
37	Virudunagar				9.73	13.30	19.00	8.30	(Electrical units.) The units worked satisfactorily.
38	Vizagapatam (Mudara	solova)		23.09	22.45	24.00	7.00	(Oil-engine units.) The plant worked satisfactorily.
39	Vizagapatam (Waltain	(10.30	17.35	21.00	8.00	(Electrical units.) The plants worked satisfactorily.
40	Vizianagram								(Steam engine units.) Figures not yet furnished.
						Panche	ayat Boards.		
1	Arkonam				10.26	16.12	24.00	9.00	(Two electrical units.) The plants worked satisfactorily.
2	Batlagundu				27.30	6.25	10.5	3.00	(Electrical units.) Units worked satisfactorily.
3	Dharmavaram								(Oil-engine units.) Figures not yet received.
4	Gudur								(Gas engine units.) Figures not yet received.
5	Kosgi								(Oil-engine units.) Figures not yet furnished.
6	Manapparai				36.40	8.40	15.30	4.45	(Electrical units.) Units worked satisfactorily. The high
									running cost is due to short hours of daily run and
-	Demostration				-0		10.00	0.00	small size of units.
7	Rameswaram		••		70.50	4.14	12.00	3.00	(Oil-engine units.) The units worked satisfactorily.
8	Sembiem								(Electrical units.) Figures not yet furnished.
9	Tiruvallur								Do. do.
0	Intuvatiur	••	••	••		••			Do. do.
10	Yemmiganur								(Oil-engine units.) Figures not yet furnished.
									(
							Drainage.		
									min and it is min to be and all and from the
1	Bezwada		••	••	18.60	7.90	12.20	0.30	(Electrical unit.) The plants worked satisfactorily.
2	Madura				19.08	17.67	21.15	6•45	(Steam engine units.) The plant worked satisfactorily.
3	Rajahmundry				21.50	9.24	14.30	2.10	(Electrical units.) The plant worked satisfactorily.
4	Vellore	••	••		69.27	12.51	14.00	3.00	(Gas engine units.) The higher running cost is due to inefficient pumps, bad conditions of the engines and
									high price of charcoal. These are being replaced by electrical units.
	* Norm The		-+ - 5+1	-1	t the stations and	act formished	Tenes mundas and		and do not include interest on capital and sinking fund annuity.

* NOTE.-The capital cost of the plants at the stations are not furnished. Hence running costs worked out and do not include interest on capital and sinking fund annuity.

APPENDIX III



Gobernment



of Madras

EDUCATION AND PUBLIC HEALTH DEPARTMENT

(Public Health)

G.O. No. 2004-A, 9th June 1947

Administration Report-Sanitary Engineer's report for the period from 1st January 1945 to 31st March 1946-Reviewed.

READ-the following papers :-

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Letter from R. McINTOSH, Esq., Chief Engineer, Public Works Department (General, Buildings and Defence), to the Secretary to Government, Education and Public Health Department, dated 10th December 1946, No. 2089-WPH/46-5.

ADMINISTRATION REPORT—SANITARY ENGINEERING DEPART-MENT FROM 1ST JANUARY 1945 TO 31ST MARCH 1946—NOTE SHOWING PROGRESS MADE ON EXECUTION OF WATER-SUPPLY AND DRAINAGE SCHEMES EITHER BY THE PUBLIC WORKS DEPARTMENT OR BY THE LOCAL BODIES UNDER THE SUPERVISION OF THE PUBLIC WORKS DEPARTMENT.

WATER-SUPPLY SCHEMES.

(a) Water-supply schemes under execution by the Public Works Department.

Adoni Water-supply Scheme.—The work was nearing completion. Construction of overhead oil tank had been completed. Fixing a pump for oil tank and telephone wire from Raravi to Adoni remained to be done.

Pollachi Water-supply Scheme. -- All works except the construction of pump house, office, store and pumping plant were completed.

Salem (Mettur) Water-supply Scheme.—There was no progress in the work during the year. The expenditure incurred during the year represents mainly the cost of maintenance of head coolies to look after the pipes lying along the trench site and at departmental stores.

Cuddapah Water-supply Scheme.—The whole work had been completed as ¹⁹ported in the last year's report.

Calicut Water-supply Scheme.—Infiltration wells excepting fifth well, syphon connexion excepting communication to the fifth well, R.C. reservoir (High and Low level ones) and laying and jointing 18", 16" and 6" were completed.

Bodinayakkanur Water-supply Scheme.—All works were completed and the water works handed over to the municipality as reported in the report of last year. Guntur Water-supply Scheme.—Land required for Head Works Superintendent's quarters, etc., which was acquired already, leased for short crop in Revenue Department.

Hindupur Water-supply Scheme.—Borings at the site of infiltration wells were in progress for testing the water. Work on the two infiltration wells was to be taken up after samples of water were tested and approved by the Sanitary Engineer.

Guntakal Water-supply Scheme.—Further work was stopped pending investigation by the Sanitary Engineer.

Cochin Water-supply Scheme.—Service reservoir, laying and jointing of pumping main to about 50 feet from the Cochin State main and laying and jointing of distribution system in two zones were completed.

Walajapet Water-supply Scheme.—The work was completed in all respects except fixing of float gauge for suction well and fencing for the reservoir.

Kodaikanal Water-works-Extension to the Observatory area.-All works were completed except fixing up of electric motor and pump.

Tiruppur Water-supply Scheme.—All works, except the erection of third pumping set, were completed.

Mettupalayam Water-supply Scheme.—All works, except fixing of pumps, motors and three fountains were completed.

Kumbakonam Water-supply Scheme.—Syphon line, suction well, motor and pump house, erection of motor for pumps, pumping mains and distribution systems, distribution reservoirs and formation of a metalled road 12 feet wide from headworks were completed and handed over to the municipality.

Voyalpad Water-supply Scheme.—The scheme was postponed for the duration of the war. It is to be renewed in 1946–47 and the estimate was under revision with the Divisional Engineer (Highways), Chittoor.

> (b) Water-supply schemes executed by the municipalities under Public Works Department supervision.

Cocanada Water-supply Scheme—Part II.—The R.C.C. reservoir work was already completed as reported in the report of last year. As the municipality had no grant during the year under report, the installation of filtration plant was deferred.

Bezwada Water-supply-Rearrangement of distribution system.—The work was postponed till the balance of cast iron pipes and site required become available.

Vellore Water-supply Improvements Scheme.—Work of relaying 12" cast iron duplicate main from the Mundy street to the service reservoir and fixing of two old 12" sluice valves in branches to the two chambers of the service reservoir were completed. Laying the 12" cast iron flanged pipes from the suction well to the pump house, the erection of the pumping plants and electrification of the station were the balance works to be done.

Trichinopoly Water-works—Second instalment.—The work of laying and jointing 14" feeder main was already completed. Further works as per sanctioned schemes had been deferred for the duration of the war. Arrangements were being made to execute the balance of work in 1946–47.

Trichinopoly Water-supply Scheme—Rectification of defects and improvements to the existing connecting pipe line of infiltration system.—The work of connecting the infiltration well No. 1 with the service well was executed during the year. Laying of fresh connecting pipes was done to a length of 160 running feet out of 308 running feet. The work was nearing completion.

DRAINAGE SCHEMES.

(a) Drainage schemes executed by the Public Works Department.

Tirupati Drainage Scheme—Fifth instalment.—Fifth instalment was completed. Sixth instalment of the scheme is to be taken up in 1946-47 when the municipality can find funds to take up the work.

Chittoor Drainage Scheme (partial).—The work was almost completed except at the tail end for which some more S.W. pipes were awaited.

Coimbatore Drainage Scheme — 'A' and 'B' Blocks.—The work in 'A' and 'B' Blocks was completed except fixing some house connexions to man-holes, water-supply connexions to flush tanks and house pipes connexions for house drains.

'C' Block.—The work of laying and jointing of sewers in this block was in progress. More than 60 per cent of the work was completed.

'D' and 'E' Blocks.—In the case of 'D' Block the portion in concreted road crossings and in the case of two blocks, the length of sewer in the Trichinopoly Road has been done.

Sewage Farm .- The laying of sub-soil pipes under the plots was done.

Negapatam Drainage Scheme.—Pumping plant in Pumping Station No. I was kept in working condition. The plant in Pumping Station No. II was erected and electric power connexion to the switch boards was given and excepting for some slight rectification to be done by the firm, the plant was in working condition.

Virudunagar Drainage (Restricted) Scheme.—The work was taken up for execution in 1945-46. During the year under report 12" masonry drain and 50 per cent of pump house work were completed. Excavation of collection well completed and levelling course of concrete laid.

(b) Schemes executed by local bodies under the supervision of the Public Works Department.

Salem Drainage Scheme.—Part of drain No. 137 in the Fifth Instalment area was completed. Tenders were called for and approved for the execution of Part II of the Sixth Instalment Scheme.

Rajahmundry Partial Drainage Scheme. -Construction of drains, motor pump house, storm water drains, etc., completed.

II

From the Chief Engineer, Public Works Department (General, Buildings and Defence), dated 10th March 1947, No. 2089-WPH/46-9.

Order-No. 2004-A, P.H., dated 9th June 1947.

Recorded.

2. Progress in the execution of water-supply and drainage schemes continued to be slow on account of the continuance of war conditions and difficulty in getting the necessary materials. 3. The number of municipal and panchayat water-supply schemes in operation during the period under review continued to be 60 as in the previous year; and the number of municipal drainage schemes in operation also continued to be 7 as in the previous year. No drainage scheme was functioning in any panchayat.

4. The number of protected water-supply schemes under execution during the period was 17 in municipalities and 2 in panchayats. The number of municipal drainage schemes under execution was 5.

5. Under the Post-War Development Programme a five-year plan for the execution of water-supply and drainage schemes has been drawn up including a total of 81 schemes. Work on 41 of these schemes is programmed to be taken up in the first year of the plan, i.e., during 1947-48. Schemes already under execution before the plan was drawn up are also included in it.

(By order of His Excellency the Governor)

P. S. VISWANATHA AYYAR, Joint Secretary to Government.

To the Chief Engineer, Public Works Department (General, Buildings and Defence).

- " Director of Public Health
- " Director, King Institute, Guindy
- " Librarian, Secretariat Library
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Pallon Stores Territ

