[L. & M.
9,000-8-8-96.]

Local & Munl. (1895) Department.

MISCELLANEOUS.

G.O., No. 1226 M

DATED 31st July 1895.

[Despatch Abstract.]

Drainage and Water-supply.

Awaiting the recommendations of the Madras Municipal Commissioners in connection with the------of Madras.

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

Municipal Dept.
Deptt.
12
1895 2363 M

[illegible]
1651 7-11-94
[illegible] 2-2-95

Madras Municipality.

C.Nos. 3247 M / 94 & 2303 M / 95

From

The President,
Municipal Commission,
MADRAS.

To

The Chief Secretary
to Government
Fort St. George

G. No. 228

Dated 17th July 1895
Despd. 17th " 1895
Recd. 18 JUL. 95

Enc. & C. No. 3247 M of 1894 recd

N / misc **Order** 31-7-95 No. 1226

Recorded pending receipt of the report promised.

I.R. 29/7/95

SUBJECT.

Returning letter from the Sanitary Commissioner No: 2201/S dated 18th Dec '94 to ~~Govt: on~~ G.O. No: 1651 M. dated 7th Nov '94 bearing current No: 3247 M – stating that the recommns of the Commissioners in connection with the drainage & water supply of Madras will shortly be submitted to Govt.

To
The President M.C. Madras.
" Sanitary Commissioner.
Desp. 6/8/95

/ with encl
[illegible]

Genl. Dept.
9

G. No. 228

3

MUNICIPALITY OF MADRAS,

~~General Department.~~
Local & Municipal Dept.
Madras, 17 July 1895
CURRENT No. 2333 M

From

LIEUT.-COL. G. M. J. MOORE, C. I. E.,

President, Municipal Commission.

To

The Chief Secretary to Government.
Fort St George

SIR,

Enclosure.
1

With reference to your endorsement No. 62 dated 22nd January 1895 on Current No. 3247 M. herewith returned, I have the honor to sta that the whole question of Mr. Cousin schemes on the Drainage and Water supple of Madras has been dealt with by the missioners and their recommendations shortly be submitted to Government.

I have the honor

Sir,

Your most Obedt. Se

G M J Moore

President, Muncl. Comm

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No 2201
5

Office of Sanitary Commission
Fort Saint George 18th December 189

Local & Municipal Dept
CURRENT No. 3247 M

From,

Surgeon Lieut Col. W. G. King M.B.C.M., D.P.H
ag. Sanitary Commissioner for Madras.

To,

The Chief Secretary to Government,
Local & Municipal Department,
Fort Saint George

Enclos: nil

Sir,

With reference to G. O. No 1651 M dated 7th November 1894, I have the honor to respectfully point out that Government having, on account of expenditure and other considerations, not regarded Mr Cousins' scheme for the drainage of Madras as feasible, the question as to what system of drainage, if any, shall hereafter be adopted by that city remains open. At the same time, sanction is accorded to the water supply scheme.

2. Granting that the expenditure for this represents the full capabilities of the city as to taxation, it follows that it will be impossible for any comprehensive scheme for improvement

to

to be entertained, for the greater part of the next thirty years.

3. Were a town having an impure water supply in such a position financially as to be obliged to choose between a water supply and a drainage scheme, I should under ordinary circumstances unhesitatingly give my choice to the obtaining of a water supply first. Where however it is possible to finance both schemes, it is always the rule to secure drainage before the water supply is introduced. There are certain situations where this rule can doubtless be with fair safety ignored, in view of the peculiarly pressing demands for a pure water supply, but it cannot be doubted that the bringing into the soil and subsoil an increased amount of water, which the adoption of a water supply scheme usually implies, is a condition that cannot be expected to be innocuous.

I don't agree in such a case as that of Madras
W.S.

In Madras what will come in — is not so much an increased amount of water — as a purer supply (except in parts wh: now have a very deficient supply of any water)
W.

4. In the Report of the Medical Officer of Health for Bombay for 1892/93, a description of the increased mortality resulting under such circumstances in that city will be found. In my Report, dated 1st November, 1894, on the sanitary condition of Madras — a copy of which has been

submitted

submitted to Government — I have shown how intimately connected the fluctuation of the sub-soil water level is with the health of the town. I have also shown by statistics that as a result of the partial and imperfect methods adopted as to water supply and drainage schemes hitherto, no improvement in the health of the inhabitants has resulted.

5. I would now respectfully submit that in the absence of a drainage scheme, but very partial improvement can be expected in parts of Madras where houses are crowded upon the soil, and where it is notorious that the subsoil has long been highly contaminated with organic matter derived from habitations. In such parts, the offering of greater facilities for the use of water cannot be expected to be an unmixed blessing, or to justify the large expenditure by a decrease in the total mortality — unless efficient arrangements be made ~~not~~ only for night soil and rubbish conservancy but also for the removal of sullage water.

6. In verbally discussing these matters with the acting Sanitary Engineer, Mr. Ellis, he made the suggestion that in default of a

complete

complete scheme were the greater part of the main sewer – recognized in all schemes as requisite – laid down, there would be at hand a means of giving a considerable measure of relief, even were it necessary in certain areas to abide by the rough open drains now trusted to – which unfortunately often end "nowhere". This suggestion seems to me so well to meet the requirements of the case, that I would respectfully urge its consideration as a compromise of value.

7. It seems to me that this suggestion would particularly well fit in with the proposal made by me in my Madras Inspection notes above referred to, namely, the adoption of ~~the~~ Latham's Hydraulic system of sewerage; especially if the radial system, such as laid down in Berlin, were applied. The adoption of the radial system would enable small pipes to be used, and would save much of the expenditure requisite in laying pipes ~~at~~ great depths in a subsoil saturated with water, under the ordinary gravitation system. Further, granting the main ~~drain~~ sewer were in great part an accomplished fact, it would be possible for the city to take up area after area and

gradually

gradually complete its drainage scheme, as its financial condition permitted from time to time.

8. Whilst under ordinary circumstances I would urge the adoption of the conduit as a means of gaining necessary complete protection of water in route from the Red Hills tank to Madras, in consideration of the fact that the question of funds at disposal has led Government to abandon entirely so important a sanitary requirement as the sewerage of the town, I believe the money to be spent on this part of the work* could with better sanitary utility be diverted to that purpose. If the water as at present be conducted in the channel, be received at Kilpauk, be there filtered through polarite and sand, and be distributed to the town by pumping under correctly calculated pressure, there will result a supply of probably not absolute but a very fair grade of sanitary safety. As an effect of increased pressure as compared with existing arrangements, there would be available at the points of distribution a valuable addition to the present supply, without the cost of a single extra pipe being incurred. Such a scheme however would demand that the existing pipe fittings be improved to withstand the

increased

* Lakhs 6.5

increased pressure brought to bear upon them.

9. " I would therefore respectfully advise that the question of a portion of available funds being devoted to the making of a part of the main sewer, in a position that will secure that the more thickly inhabited areas be drained towards a correct outlet be taken into consideration, and that, in default of it being possible for financial reasons to undertake the complete gravitation scheme suggested by Mr Cousins, the feasibility of the employment of the radial system for small areas worked at separate stations by hydraulic pumping or other lifting power so as to discharge into this main sewer, be investigated.

I have the honor to be,
Sir,
Your most Obedient Servant,

W G King.

Surgeon Lieut Col.
ag. Sanitary Commr. for Madras

-7-11-94

Local and Municipal Dept.

Local & Municipal Dept.
PR. CURRENT No. 3247 M

From,
Surgeon Lt: Col: W. G. King.
M.B., C.M., D.P.H.
Ag. Sanitary Commissioner
for Madras.

To,
The Chief Secretary
to Government
Local & Municipal Dept

Dated 18th }
Despd: 19th } December/94
Recd }

No. 2201/4/5

Enclo: nil

Subject.
Submitting for the consideration of Government his remarks on G.O. No. 1651 M Local and Municipal dated 7.11.94

P.T.O.

12

~~[illegible]~~

~~For orders~~

TO BE RETURNED WITH REPLY.

No. 65 of 22-1-95

Referred to the Municipal Commissioners of Madras for remarks.

(By Order)
W. Francis
Ag. Asst. Secretary

Fort St. George
21st January 1895

To
The President, M. Comn.
Madras.

21/12 Arr/12

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LOCAL AND MUNICIPAL DEPARTMENT.

Current No. 3247 M

From the Sanitary Commissioner.

I should send this to the Munl. Commrs for remarks.

~~Mr~~ Dr. K. is very vague in what he says about a main sewer, but I believe what he wants is to start a main sewer somewhere by Harbour Bridge & run it through Triplicane & Chintadripett across the Cooum & along to De Mellow's Road or thereabouts, with of course lifting stations where necessary. If the Munl. Commrs were to prefer to carry out this idea to the construction of the conduit, I should not myself be disposed to say 'no'

H. S.
11/1/95

J. G. 15/1

W.
15 Jan

My own idea is that if we cannot have both a good water supply and drainage schemes, it is better we should have at all events one - as perfect as it can be made. If we take 6 lakhs from the water scheme towards a partial drainage scheme, the result will be that neither is perfect. After reading Dr. K's notes, I am amazed at any body being alive in Madras.

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FOR ORDERS.

The Sanitary Commissioner, whose opinion was not asked upon Mr. Cousins's schemes for the improvement of Madras, has now received the G.O. dealing with them (No. 1651 M / 7.11.94) & the current consists of his remarks thereon.

He appears to think that the gravitation system of sewerage proposed by Mr. Cousins is faulty sanitarily, vide para 7 of his letter and paras 34 and 35 (page 19) of the Inspection Notes on Madras therein alluded to. [The order upon these Inspection Notes is "The Government will await the remarks of the Municipal Commissioners."] He recommends some system in which

V. S.
12/1/94

Madras. Col. Pennycuick's Committee in 1890 also pointed out that the water was liable to pollution during its passage along the channel, & recommended a masonry conduit. Mr. Cousins' report seems to show that he never entertained any doubt as to the necessity of the conduit.

It is therefore for consideration whether upon Dr. King's present letter Govt. are to decide that no conduit is necessary, or to adhere to the orders already passed that it is to be constructed.

It would have been more convenient had Dr. King in this case, as in one or two others that have recently occurred, sent up the remarks that he intended to make while the papers were under consideration & not after they had been disposed of.

W. 8.1.95 W. 10/1.

The papers [illegible] with [illegible]

[illegible] a spare copy of Dr. King's notes [illegible] the President [illegible] Madras for [illegible]

10.

Sanitary Commr.'s remarks on the G.O. on Cousins' Scheme

FOR ORDERS.

3247

Refce. 65/22/1/95

Referred to the Munl. Commissioners of Madras for remarks. (from orders)

W. 9.1.95

To,

The President Mcl. Madras.

Despd. 22/1

Copy on current 19/1.

When given for copying	189
When copied	
When examined	
When signed	

Read again G.O., No. 189 , Dated

Current No.

Enclosures to C. No.

Order of Government .. .. .. A A A A A A A

Letter of Government.

Statement with ditto.

Papers not filed up, being meant for despatch in originals.

N.B.—
A = Copy in full.
B = Not to be copied.
P = Copy abstract only.
Q = Copy heading only.