Local & Munl. (1895) Department.

PRINTED.

G.O., No. 2140 M

DATED 21st December 1895.

[Despatch Abstract.]

Drainage and Water-supply Schemes.

Passing orders on the-----of the City of Madras and requesting the President to report on the details of the expenditure on pumping.

para 5 on p.3

BACK PAPERS.

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

FURTHER PAPERS.

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

1002

No. 2140 M., 21st December 1895.

GOVERNMENT OF MADRAS.

LOCAL AND MUNICIPAL DEPARTMENT.

Read—again the following papers :—

G.O., Mis. No. 1226 M., dated 31st July 1895.

Abstract.—Awaiting the recommendations of the Madras Municipal Commissioners in connection with the drainage and water-supply of Madras.

G.O., Mis. No. 1672 M., dated 19th October 1895.

Abstract.—Referring to the Public Works Department, with remarks, papers relating to the drainage and water-supply schemes for the City of Madras.

Read—also the following paper :—

Note by the Chief Engineer, Public Works Department, dated 28th October 1895.

I have already had the advantage of discussing the questions raised in these papers with the President of the Municipal Commission and with Mr. Ellis and Mr. Loane.

2. As regards the water-supply, I consider that, pending the possibility of carrying out the complete scheme recommended by Mr. Cousins, which is practically the same as that proposed by the Committee of 1890, the municipality cannot do better than adopt Mr. Ellis' suggestions, as summed up in paragraph 33 of his report, dated 5th September 1895.

3. The improvement of the head-works at Kilpauk referred to in paragraph 26 of the report is a matter of great importance, and I concur in Mr. Ellis' recommendations on this point.

4. The condition of the pipes as explained in paragraphs 20, 21, must call for very early attention.

5. The question is raised in these papers of the raising of the F.S.L. of the Red Hills Lake; on this point I wish to express in the most decided manner my opinion that no such raising should be allowed on any consideration.

6. The whole question was carefully considered in 1884–85, and the arguments in favour of the reduction of the lake level which was then carried out are irresistible.

7. A reason given in favour of the increase is the large annual expenditure on pumping, which is stated by Mr. Loane (paragraph 4 of his memorandum of the 25th January 1895) at Rs. 20,000. In the absence of details of this expenditure it is impossible to say how far it can be justified, but it seems to me incredible that so large an expenditure should have been incurred unless there was an extraordinary waste of money somewhere.

8. With regard to the drainage, Mr. Ellis' proposals are, in my opinion, much preferable to those of Mr. Loane; they have the advantage that they work up to Mr. Cousins' more complete scheme, and I approve of them.

9. I should add that I have not at present seen reason to change my own opinion that it would be better to devote all available funds to carrying out a complete system of water-supply on the lines indicated by Mr. Cousins and to consider the drainage as secondary thereto, but the balance of opinion appears to be against this view, and if it be accepted as settled that the drainage question requires more immediate attention than that of water-supply, Mr. Ellis' proposals appear to be worthy of adoption.

(Signed) J. PENNYCUICK, Col., R.E.,
Chief Engineer, P.W.D.

No. 3146-C.

Transferred to the Local and Municipal Department.

FORT ST. GEORGE,
28th October 1895.
(Signed) J. PENNYCUICK, Col., R.E.,
Secretary to Govt., P.W.D.

ORDER—No. 2140 M., dated 21st December 1895.

In G.O., No. 1651 M., dated 7th November 1894, the Government decided to abandon for the present the drainage scheme proposed by Mr. Cousins, as it was estimated to cost as much as 61 lakhs in the first instance and nearly $7\frac{3}{4}$ lakhs annually for maintenance, interest and sinking fund, and it was thought that his idea of house-connections was impracticable. The Commissioners were therefore requested to report the steps which should be taken to put the existing system of disposal of rubbish and night-soil in the town on a satisfactory footing. In regard to water-supply, however, the Government was of opinion that the scheme prepared by Mr. Cousins, and estimated to cost 25 lakhs to carry out and four lakhs annually to work, might be adopted, with the modifications suggested by Colonel Pennycuick and Mr. Jones, and accordingly desired the Commissioners to report the measures which they would propose to finance the scheme, to which the hydraulic survey of the town proposed by Colonel Pennycuick and Mr. Jones was considered to be an indispensable preliminary.

2. The Commissioners were also requested, in G.O., No. 661 M., dated 16th April 1895, to state whether they were still prepared to tax the imports of petroleum consumed in Madras in order to raise the funds required for carrying out the sanitary improvements under consideration.

3. As sufficient funds are not available for the execution of both the drainage and water-supply projects, the Municipal Commissioners consider that the drainage scheme should have the preference. The Chief Engineer, for whose remarks the papers were referred, sees no reason to modify his opinion that it would be better to devote all available funds to carry out a complete scheme of water-supply on the lines suggested by Mr. Cousins in preference to a drainage scheme. The Government, on reconsideration, agrees with the Commissioners in this matter, especially as the Commissioners do not leave the water-supply out of consideration altogether, but propose to spend some lakhs upon it.

4. The proposals submitted by the Commissioners for the satisfactory disposal of rubbish and night-soil have been disposed of in G.O., No. N

2123. M.D. 19° December 1895.

As regards drainage, the Commissioners have considered two other schemes—one proposed by Mr. Ellis and the other by Mr. Loane—in both of which the objections raised against Mr. Cousins' scheme are met by omitting house-connections for the present. Mr. Ellis suggests that the larger drains of Mr. Cousins' scheme be laid down exactly as planned by him in such parts of the town as call for immediate action and that the other parts which are in a less insanitary condition be taken up later on. This scheme is estimated to cost 20 lakhs in the first instance and Rs. 1,54,780 annually to work. On the other hand, Mr. Loane's scheme, which is new, is estimated to cost 28 lakhs at first and Rs. 1,57,580 annually, though the latter sum may be reduced by Rs. 25,000 when the sewage farms begin to yield a profit. Mr. Loane proposes a sewer from Mylapore to Manalli, a distance of $6\frac{1}{2}$ miles, along a new alignment, and with pipes and gradients different from those of Mr. Cousins. The Commissioners prefer this scheme, as they say that it provides for the drainage of the whole town on the lines laid down by Mr. Cousins, with the exception of the substitution of the main for the brick sewer. This assertion, however, is based on a misapprehension of the principles of the scheme, which is complete in itself, differs in many important details from Mr. Cousins' scheme, and cannot be extended so as to embrace it when funds are available. With regard to water-supply also the Commissioners desire to adopt the main portions of a scheme proposed by Mr. Loane in preference to that of Mr. Cousins. According to this it is proposed (1) to raise the bund of the Red Hills tank by three feet to the level existing before the breach in 1884, so as to store a much larger volume of water, (2) to raise the sides of the existing channel by two feet so as to increase the supply, (3) to remove the villages lying within the water-spread of the tank, and (4) to alter such of the existing branches in the town as may be found necessary after the hydraulic survey. These works are estimated to cost seven lakhs. The Chief Engineer to Government, however, objects very strongly to the raising of the tank bund, as the whole question was carefully considered in 1884 and the arguments in favour of the lowering of the bund—a work which was then carried out—are, in his opinion, irresistible. Colonel Pennycuick recommends a scheme which has been proposed by Mr. Ellis after completion of the hydraulic survey of the town, providing for the partial improvement of the distribution, purification and quantity of the supply at a cost of nearly $6\frac{3}{4}$ lakhs. The Government prefers the adoption of both the drainage and water-supply schemes proposed by Mr. Ellis, as they are in reality parts of the schemes proposed by Mr. Cousins and approved by the Chief Engineer and can be easily extended so as to embrace the whole of these schemes when funds are available.

? mis/ a/ 4/ 6/

5. The Commissioners are not now in favour of the proposed tax on petroleum, but suggest the increase of the present rates of taxation, &c., in certain cases and request the Government to make a grant of 10 lakhs from Provincial Funds. The Government, however, is of opinion that the question of financing the schemes to be carried out can be better dealt with after complete schemes for the works now decided upon have been prepared, and the President will be requested to submit them as soon as possible. Meanwhile, information will be obtained as to the methods, rates and incidence of taxation obtaining in the municipalities of Calcutta, Bombay and Rangoon. 9/

6. The special attention of the Municipal Commissioners will be called to paragraphs 20, 21 and 26 of Mr. Ellis' report on the hydraulic survey of the town, regarding the present condition of the pipes and the improvement of the head-works at Kilpauk, which call for very early consideration.

7. The President will be requested to report the details of the expenditure on pumping, referred to in paragraph 4 of Mr. Loane's memorandum of the 25th May 1895, as in the absence of these the Chief Engineer is of opinion that it is incredible that so large a sum as Rs. 20,000 per annum could have been spent on the work unless there was an extraordinary waste of money sonewhere. m/

(True Extract.)

for *Chief Secretary.*

To the President, Municipal Commission, Madras.
„ Public Works Department.
„ Sanitary Commissioner.
„ Sanitary Engineer.
Editors' Table.

Exd. A. Raitt.

Govt. of {1895} Madras.

LOCAL AND MUNICIPAL.

a. s.

Proof for approval.

Fwd
7.1.96

Issued

Recd. Encl.

G.O., No. 2140 M., 21st Dec. 1895.

Rev. Please strike off

7.1.96

DECEMBER.

Drainage and Water-Supply Schemes.

Passing orders on the — of the City of Madras, and requesting the President to report on the details of the expenditure on pumping.

38

Proceedings, Local & Municipal Dept. No. 1672 Mis. dt.
19 October 1895.

Local & Municipal Dept.
CURRENT No. 3234 M

Note by the Chief Engineer
P. W. Dept.:—

I have already had th advantage of discussing the questions raised in these paper with the President of the Municipal Commission and with Mr. Ellis and Mr. Loan

2. As regards the water supply I consider that pending the possibility of carrying out the complete scheme recommend by Mr. Cousins, which is practically the same as that proposed by the Committee of 1890, the Municipality cannot do better than adopt Mr. Ellis' suggestions, as summed up in para 33 of his report dated 5th September 1895.

2. The improvement of the headworks at Kilpauk, referr to in para 26 of the report is a matter of great importance and I concur in Mr. Ellis'

Govt. of {1895} Madras.

LOCAL AND MUNICIPAL.

A. S.

Proof for approval.

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Rev Please strike off

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7.1.96

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6/1/96

38

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m. C. No. 2873 M

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doption.

So) John Pennycuick, Col. R.E.
Chief Engineer P. W. Dept.

No. 3146 cd/28 October 1895

Transferred to the
ocal & Municipal Dept.

J. Pennycuick Col. R.E.
ecretary to Govt. P. W. D.

Urgent

To,
The Local & Muni. dept.
with the referred papers retd

[illegible] 25/10

1672 M 19-10-95

1895.

Public Works Department.

Local & Municipal Dept.
CURRENT No. 3234 M

No. 3146C
Dated 28-10-1895
Despatched
Received
C. No. 2473 & 2873 M retd

SUBJECT.

Transferring note by the Chief Engineer P.W. Dept. regarding drainage and water supply schemes for the city of Madras.

CHIEF SECRETARY
29. OCT. 1895
GOVERNMENT OF MADRAS

Again G.O., dated 19th October 1895, No. 1672 M.
Current No. 3234 M of 1895, dated 28th October 95 from the Public Works
Current No. of 189 , dated from the

CHIEF SECRETARY
-6 DEC. 1895
GOVERNMENT OF MADRAS

GOVERNMENT HOUSE,
5 Dec. MADRAS.

My dear Bliss

H.E. the Govr told me to send you the enclosed note with refce to Madras drainage

Yours sincerely
Macartie

My dear Price
This should have gone to you, I think — you have the papers in L. & M., I believe —
Yours

5/12/95

ORDERS.

Please see the notes and [illegible] in the Government order read above.

When the schemes to be adopted are decided upon the estimates prepared the question of financing can be gone into. It seems useless to do so earlier.

27/11/95

which should be done [the estimates can be made out, and] the question of finance can then be gone into.

W
29 Nov

I have now been through the most important of these papers. Lest I forget, I would only now note that the expenditure on pumping at the Red Hills (para 6 of the C.E.'s note) should be enquired into & that before we

might issue an order ing of the C.E.'s suggestions lly drawing attention to his para 3 and that the expenditure now going on should be laid in accordance with the lines laid down in Mr. Ellis' scheme.

W
3 Dec

FOR

Madras Drainage

GOVERNMENT HOUSE,
5.XII.95 MADRAS.

It is important to bring out in the order that Mr. Cousins' scheme is closely adhered to in Mr. Ellis' proposals – and that we cannot accept the dictum of the Committee that Mr. Loane's are in accordance with Mr. C. In fact it is quite the other way.

Our chief engineering adviser approves of Mr. Cousins' plan.

W

1672 M 19-10-95 R C

1895.

Public Works Department.

Local & Municipal Dept.
CURRENT No. 3234 M

No. 3146 C
Dated 28-10-1895
Despatched
Received
Nos 2473 & 2873 M reltd

SUBJECT.

Transferring note
the Chief Engineer
Dept. regarding drain
nd water supply
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CHIEF SECRETARY
29. OCT. 1895
GOVERNMENT OF MADRAS

81.12.94.

LOCAL AND MUNICIPAL DEPARTMENT.

Again G.O., dated 19th October ~~18~~ 1895, No. 1672 M.
Current No. 3234 M. of 1895, dated 28th October 95 from the Public Works D
Current No. of 189 , dated from the

FOR ORDERS.

Please see the notes and orders in the Government Order read above.

VR
29/11/95

When the schemes to be adopted are decided upon & the estimates prepared the question of financing can be gone into. It seems useless to do so earlier.

29/11/95

These papers should now go to the Hon. Mr. Ellis. I only took them before, as he was so busy – and ordered them to be sent to the Chief Engineer, as that was obviously the next step. If the H. M. can look them through by Tuesday next – we might go through them with the C. E. after Council. If not we will try later in the week – but the sooner we can come to a decision the better. I think we can now see our way to doing something useful – & as soon as it is decided how much should be done [the estimates can be made out, and] the question of finance can then be gone into.

W
29 Nov

We might issue an order – approving of the C. E.'s suggestions – especially drawing attention to his para 3. and that the expenditure now going on should be laid in accordance with the lines laid down in Mr. Ellis' scheme.

W
3 Dec

I have now been through the most important of these papers. Lest I forget, I would only now note that the expenditure on pumping at the Red Hills (para 6 of the C.E.'s note) should be enquired into & that before we

Lo

No.
Date
Despa
Rece
Nos 2

Can go into the financial question the L. & M. dept should collect all the infn it can as to the methods & rates of taxation in Calcutta & Bombay & perhaps in one or two other large places, such as Allahabad, Lucknow or Benares

JB
2/12/95

Let us find out about Calcutta Bombay & Rangoon - three of the most typical cities - & we shall have something to go upon.

W
3 Dec

JS
4/12/95

This will be enough, I daresay

JB
6/12/95

50—2,000—21-12-94.

Drainage & Water supply
Scheme – Madras

3234 M. 8

FOR ORDERS.

H. E. the Govr. [illegible]

Urgent.

Resubmitted to the Hon. Mr Bliss with reference to H.E. the Govr.'s note & with refn. regarding the three towns specified therein can be sought or does H.E. still desire to go further afield. Agra & Benares particularly the latter have very large water works but as far as I know not drainage systems.

5/12/95

Seen

6/12

[G./24.]
200-5-10-95.

DEPARTMENT.

Papers to be read in proceedings :—

Again G.O , dated 189 , No.

Again G.O., dated 189 , No.

Again Current No. 2473 M of 1895, dated 1st Aug., from President, Mun!. Commn., Madras

do " " 2873 M " 1895, " 14th Sept., " " "

" " 3234 M " 1895, " 28th Oct., " P. W. D.

ORDER.

In G.O. No $\frac{1651 M}{7.11.94}$ the Govt. decided that at any rate for the present Mr Cousins' schemes for the improvement of the drainage & ~~water supply~~ of Madras was impracticable, & requested the Municipal Commissioners to submit other proposals, & at the same time to adopt, subject to certain modification Mr Cousins' Water-supply Scheme.

2. Accordingly two drainage schemes ~~have been put forward~~, (a) prepared by Mr Ellis, & (b) prepared by Mr Lowne, have been put forward by the Commissioners, the latter of which meets with the approval of the Commissioners because "it provides "for the drainage of the whole of the "city on the lines laid down by Mr "Cousins' with the exception of two

main being substituted for the brick sewer." ~~This~~ The Commissioners however appear to have acted upon ~~be~~ an erroneous idea, in making their proposals, as Mr. Ellis' scheme ~~works up to Mr.~~ ~~Cousins' scheme~~ is in accordance ~~with the views both of the expert Committee of 1890, also~~ with Mr. Cousins' scheme, & in fact can be extended, when funds are available, strictly in accordance with it ~~the latter~~, ~~For these reasons the Govt. is opinion that~~ while Mr. Loane's scheme is complete in itself, & cannot be extended to embrace the whole of Mr. Cousins' proposals. For these reasons the Govt. is of opinion that Mr. Ellis' drainage scheme should be adopted in preference to the other, as, even if Mr. Loane's scheme were the better for the present, ~~yet~~ Mr. Ellis' scheme is one which can be extended in the future in accordance with a scheme, which has been considered the best available by all the experts who were consulted, & it is better to wait a little longer for a complete scheme, than to waste money on an imperfect ~~one~~ or defective one.

3. From their report it is seen that the Commissioners consider that the water supply scheme should be subordinated to the drainage scheme & in this view the Govt. concurs. Under these circumstances it appears improbable that, after paying for a complete drainage scheme, there will be sufficient funds available to carry out Mr. Cousins' scheme

50—2

FROM ORDERS.

C. S.

[G. / 24.]
200—5-10-95.

DEPARTMENT.

Papers to be read in proceedings :—

Again G.O , dated 189 , No.
Again G.O., dated 189 , No.
Current No. of 189 , dated , from
" " , 189 , " , "
" " , 189 , " , "

ORDER.

in its entirety, ~~& therefore for this work also two schemes are put forward prepared by Mr. Ellis & Mr. Loane, respectively~~. Accordingly a Hydraulic Survey of Madras was carried out by Mr. Ellis, as the result of which he submits ~~two~~ proposals for the water supply of the town. Mr. Loane also proposes a scheme, which has met with the approval of the Mun. Commissioners, ~~This~~ in which he proposes (1) to raise ~~& strengthen~~ the bund of the Red Hills by 3 ft. (2) to remove certain villages which drain into the lake & (3) to enlarge & strengthen the present supply channel. The Chief Engineer to Govt. however, is strongly of opinion that the raising of the Red Hills Lake bund should not be allowed on any consideration, as the whole question was carefully considered in 1884-85 & the arguments in favour of the reduction of the lake bund, which was then carried out, are irresistable. In face of such a decided opinion the Govt. is unable to accede to the proposal to carry out this scheme.

With reference to Mr. Ellis' scheme the Chief Engineer states: "The "Municipality cannot do better than "adopt Mr. Ellis' suggestions, as "summed up in para. 33 of his report "dated 5-8-95.

" The improvement of the head works " at Kilpauk referred to in para. 26 " of the report is a matter of great "importance, & I concur in Mr. Ellis' "recommendations on this point."

A further argument in favour of this scheme is that it is one step towards completing Mr. Cousins' scheme, when funds become available in the future. ~~This~~ Mr. Cousins' scheme is practically the same as the one proposed by the Expert Committee of 1890, & is presumably the best available, & ~~no scheme~~ any step towards the execution of it must be desirable.

5. For these reasons the Govt., ~~regrets~~ while regretting that it

FROM ORDERS.

C. S.

[G./24.]
200—5-10-95.

DEPARTMENT.

Papers to be read in proceedings :—

Again G.O , dated 189 , No.
Again G.O., dated 189 , No.
Current No. of 189 , dated , from
" " " 189 , " , "
" " " 189 , " , "

ORDER.

cannot accede to the Commissioners' proposals, is of opinion that both Mr. Ellis' water-supply & drainage schemes should be carried out. Estimates for both these works should be submitted at an early date, upon receipt of which the question of financing the schemes can be better dealt with.

6. The attention of the Muni. Commissioners will be called to paras. 20 & 21 of Mr. Ellis' report on the Hydraulic Survey of Madras, ~~its~~ in which he refers to the condition of the pipes. This is a matter which calls for very early consideration.

7. The Pres. Mun. Comm. will be requested to report the details of the expenditure on pumping, referred to by Mr. Loane in para 4 of his Memorand.

the 25th Jany. '95, as in the absence
of these ~~the~~ the Chief Engr. is of opinion
that it is incredible that so large an
expenditure should have been
incurred, unless there was an extra-
ordinary waste of money somewhere.

Before the question of financing these
schemes is decided, information will
be ~~obtained~~ requested from the respective local Govts. as to the methods &
rates of taxation in the municipalities
of Calcutta, Bombay & Rangoon,
to whom the following letter will be
addressed.

Letter.

To Chief Secy. Govt. of Bombay }
" " Bengal }
Secy to Chief Commr. of Burmah }

Sir,

I am directed to request that with the
permission of { H. E. the Gov. in Council / His Honor the Lieut. Governor / The Chief Commr.
this Govt. may be furnished with full
information regarding the methods &
rates of taxation obtaining in the
municipality of { Bombay / Calcutta / Rangoon

I have &c.

WWS
7/12/95

5.

Drainage & water supply of Madras.

08

FROM ORDERS.

3234 M.

C. S.

W. P. 2140 M
21/12/95

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[5]
1,000—17-11-93.

LOCAL AND MUNICIPAL DEPARTMENT.

Papers to be read in Proceedings :—

5 P

Again G.O., dated 31"July 1895, No. 1226 M.
,, ,, ,, 19"October 1895, No.1672 M.
Current No.3234M of 1895, dated 28 October/95 from the Public work's Departt.

KS
20/12/95

Order. No. 2140 M. 21-12-95

In G.O.No.1651 M.d/7" November 1
the Govt.decided to abandon for the pre-
sent the drainage scheme proposed by Mr
Cousins,as it was estimated to cost as
much as 61 lakhs in the first instance
and nearly 7¾ lakhs annually for mainte-
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the scheme prepared by Mr.Cousins and e
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cuick and Mr.Jones,and accordingly desi
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of the town proposed by Col.Pennycuick
and Mr.Jones was considered to be an i
dispensable preliminary.

2. The Commissioners were also ~~ask~~ requested
in G.O.No.661 M.d/16" April 1895 to st
whether they were still prepared to

Drainage

thimports of petroleum consumed in as in order to raise the funds requir- dfor carrying out the sanitary improve- mets under consideration.

3. As sufficient funds are not avail- ble for the execution of both the drain- ge and water supply projects, the Munici- al Commissioners consider that the drain- ge scheme should have the preferance ~~but~~ he Chief Engineer, for whose remarks the apers were referred, sees no reason to odify his opinion that it would be better o devote all available funds to carry out complete scheme of water supply on the ines suggested by Mr. Cousins in prefer- ence to a drainage scheme. The Govt. ~~however~~ on reconsideration agrees ~~entirely~~ with the Commissioners in this matter, especially as ~~Moreover it is observed that~~ he Commissioners do not leave the water- upply out of consideration altogether, but propose to pend some lakhs upon it.

4. The proposals submitted by the Com- issioners for the satisfactory disposal of rubbish and night soil have been dis- osed of in G.O.No. 2123. M. 19-12-95.

× on Curr: No.

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first

first instance and Rs.1,54,780 annua

On the other hand, Mr. Loane's scheme, is ~~a~~ new and ~~and original one of his own~~ Cousins' estimated to cost 28 lakhs at first a Rs.1,57,580 annually, ~~but~~ though the latter su may be reduced by Rs.25,000 when the se farms begin to yield a profit. Mr. Loane proposes a sewer from Mylapore to Mana a distance of 6½ Miles, along a new alig ment, and with pipes and gradients different from those of Mr. Cousins. The Commission- ers ~~have~~ prefer~~red~~ this scheme, as they say that it provides for the drainage o the whole town on the lines ~~drawn~~ laid down by Mr. Cousins, with the exception of the substitution of the main ~~being substituted~~ for the brick sewer. This assertion, however, is based on a mis apprehension of the principles of the scheme, which is complete in itself, diffe ~~ring~~ in many important details from Mr. C Cousins' scheme, and cannot be extended so as to embrace it when funds are availabl With regard to water supply also the Com- missioners ~~have resolved~~ desire to adopt the main portions of a scheme proposed b Loane in preference to that of Mr. Cousi According to that it is proposed (1) to raise the bund of the red Hills tank by three feet to the level existing before the breach in 1884, so as to store a muc larger volume of water, (2) to raise the sides of the existing channel by two fe so as to increase the supply, (3) to re- move the villages lying within the wate spread of the tank, and (4) to alter su of the existing branches in the town as may be found necessary after the hydrau survey. These works are estimated to c seven lakhs. The Chief Engineer to Go

nt, however, objects very strongly
raising of the tank bund as the
question was carefully considered
and the arguments in favour of
wering of the bund, to work which was then
d out, are, in his opinion, irre-
ble. Colonel Pennycuick recommends a
me which has been proposed by Mr.
is after completion of the hydraulic
urvey of the town, providing for the partial ~~arrangement~~ improvement of the distribution,
purification and quantity of the supply.
at a cost of nearly 6¾ lakhs. The Govt. ~~therefore~~ prefers the adoption of both the drainage and water supply schemes proposed by Mr. Ellis, as they are in reality parts of the schemes proposed by Mr. Cousins and approved by the Chief Engineer, and can be easily extended so as to embrace the whole of these schemes when funds are available.

5. The Commissioners are not now in favour of the proposed tax on petroleum, but suggest the increase of the present rates of taxation &c in certain cases and requests the Govt. to make a grant of ten lakhs from Provincial Funds. The Govt. however, is of opinion that the question of financing the schemes, to be carried out, can be better dealt with after complete schemes for the works now decided upon have been prepared and the President will be requested to submit them as soon as possible. Meanwhile information will be obtained as to the methods, rates and incidence of taxation obtaining in the Municipalities of Calcutta, Bombay and Rangoon.

6. The special attention of the Municipal

Order complete.

Municipal Commissioners will be call
paragraphs 20,21 and 26 of Mr. Ellis'
port on the hydraulic survey of the t
regarding the present condition of th
pipes and the improvement of the head
works at Kilpauk, which call for very e
consideration.

7. The President will be requested
report the details of the expenditure
pumping, referred to in paragraph 4 of
Loane's Memorandum of the 25" May 1895,
in the absence of these, the Chief Engin
is of opinion that it is incredible tha
so large a sum as Rs.20,000 per annum
~~should~~ could have been spent on the work ~~nu~~ unle
there was an extraordinary waste of mone
somewhere.

(From Orders)

V.R.
17/12/95

15/12/95

To

The President, Munl. Comn., Madras. Sb
,, Public Works Deptt. S9
,, Sanitary Commissioner. S3
,, Sanitary Engineer. S3
Editors' Table. Dispd 10/1/96

it however objects very strongly

Drainage and watersupply
Schemes – Madras –

(From Orders)

Note – would it not be best to send this up to H. Ex. who has [illegible] on the sanitary questions [illegible]

sent to Press.

signature.

in print.

G.O., No DATED
189

C. No.

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