[L. & M. / 5,000—23-10-97.]

Local & Munl. (1898) Department.

MISCELLANEOUS.

G.O., No. 488-M

DATED 3-3-98

INDEXED.

DESPATCHED

[Despatch Abstract.]

Srirangam water supply — Stating that Government will not insist on the municipal council of Trichinopoly accepting the Srirangam project as a part of the Trichinopoly water supply scheme & requesting with remarks the Sanitary Engineer to work out a separate scheme for the ——.

BACK PAPERS.

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

FURTHER PAPERS.

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

Srirangam Water-supply scheme.

[L. & M. / 300—2[illegible]2-97.]

LOCAL AND MUNICIPAL DEPARTMENT.

Papers to be read in Proceedings :—

Again G.O., No. , dated 189 .
Again G.O., No. , dated 189 .
Current No. 3883. M of 1897, dated 10th Nov. 97 — , from the Sanitary Engineer
" " 4311. M " 1897, " 10th August 97, " .. Chairman. M.C. Srira
.. " 420. M " 1898, " 18th January 98. " Chairman. M.C. Trichinopo

~~P.S.~~ ORDER. No. 488 Minis Dt 3/3/98

In the circumstances now st by the Sanitary Engineer, the Gov will not insist on the Municipal Council of Trichinopoly accepting Srirangam project as a part Trichinopoly water-supply scheme however, no scheme for the wat supply of Srirangam has yet properly worked out on the b of the provision of independent he- works, the Sanitary Engineer is questied to prepare one. In do so, he should consider whether would not be better to draw supply from the Coleroon, ins of from the Cauvery, as in the case a shorter line of main we perhaps be sufficient; But it also have to be considered w supply of fuel to a station on bank of the Coleroon might not more expensive than to a station the bank of the Cauvery.

(From orders).

H. T.
1/3/98

V. R.
28/2/98

To.

[illegible], Pg 2nd & 3rd [illegible]

The Chairman M.C. Trichinopoly } } thro' the
" do .. Srirangam }
Collector of Trichinopoly

Pg 1st, Lg 2nd & 3rd [illegible]

. . . Sanitary Engineer.

Desp. 7/3/98

Local & Munl. (1897) Department.

CURRENT No. 3883 M

From

The Sanitary Engineer
to Govt.

Order

No. 1738

Dated 10th November 1897

Received 10-11-97

Registered 10-11-97

Enclosures Two

Spare copies.

SUBJECT.

Forwarding copy of his note to the Sanitary Board wherein his reasons are given for changing the views he formerly expressed as to Srirangam being supplied from Trichinopoly wells; also his remarks on the Trichy Council's statement regarding the condition of the engines at Trichy Pumping station.

28/11

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

4

Note by the Sanitary Engineer
in reference to the
Proposed Extension of Trichinopoly Water Supply Works.

The plans ,sections & estimates as detailed at the end of this are forwarded in accordance with the terms of G.O.No. 2096 M.Mis, dated 10th. December 1896.

2. The plans forwarded shew not only the extension to Worriyur and Puttur but also the extensions to part of the Cantonment not at present supplied with water and so as to make the whole scheme complete. The lines of the pipes and the position of the fountains have been arranged as far as possible in accordance with the views of the Council.

3. The population to be benefitted by this extension amounts to 28,376 and the supply required at 15 gallons per head will therefore amount to 424,140. The works at present arranged were designed to supply

To Fort &c---------	900,000	(15 gallons per head)
To The Railway----	100,000	
To The Military Lines ---	42,000	
To The Jail-----------	15,000	
	1,057,000	gallons
The extension supply will be for 28,376 at 15 gallons	424,140	
	1,481,140	

4. At present the water supply is drawn from three wells and the supply from these wells ,when the river is in flood at all, is ample but during the dry weather and working with a 5 feet head the wells will not supply more than 3 x 250 gallons per minute = 750 gallons or throughout the 24 hours 750 x 60 x 24 = 1,080,000 gallons which is more than the present demand but the draft at times is sometimes double the average and the Engines do not at present work during the 24 hours but only about 16. It is therefore desirable even without the extension that more wells should be provided and in the accompanying estimate, provision is made for doubling the number of wells instead of adding only proportionately on account of the extension of the supply.

an engine,
which might

5. The total amount required will be now 1,481,000 gallons per diem, that is taking 15 gallons per head. If half of this had to be delivered in six hours (the usual provision) then the maximum demand would be represented by $\frac{1481,000}{2 \times 6 \times 60} = 2057$ gallons per minute and would require $\frac{2057}{250} = 8$ wells during the dry season with a head not exceeding five feet . But the town is not using 15 gallons per head and while occasionally the demand has been 13 gallons per head (this is exceptional) there is a large waste going on which has been drawn attention to : provision has therefore been made for three additional wells only making 6 in all which is deemed sufficient for present purposes . Moreover it may be found that the new wells which will be deeper, will give a greater yield than the existing wells. It should also be observed that the minimum yield of 250 gallons per minute from existing wells does not extend over more than two or three months when the Cauvery is extremely low.

6. It was not expected when the framing of the estimate was commenced that additional engine power would now be required. It was foreseen that it would be required some day & the engine foundations are already in & space is left for the additional boiler. Looking to the fact that the present demand has necessitated at times the working of two Engines leaving one in reserve, it is evidently necessary to provide a fourth if there is to be a reserve at all & this is a very necessary provision in a direct pumping scheme. The total new maximum demand, as shewn ,will be 2057 gallons per minute. The existing three engines can pump 3 x 725 or 2175 gallons per minute & two of them would be probably out of work for some hours of the day but as all three engines would be daily engaged for some part of the day, the additional engine is now necessary & provision has therefore been made for it in the estimate.

7. Here the Sanitary Engineer may refer to the Srirangam Water Supply to remark that under the changed conditions of the Trichinopoly Works & to the fact that Trichinopoly will want its own fourth Engine as a reserve, he is inclined to withdraw the views expressed as to the advisability of Srirangam getting its water from the Trichinopoly Municipality as additional buildings and an engine would be entailed and these might just as well be placed on the opposite side of the river near Srirangam itself- the additional expense for wells &c would be covered by saving charges payable to the Trichinopoly Municipality for the use of portions of their buildings ,mains &c.

8. The estimate is in full detail & the plans shew exactly what is intended to be done but it may be stated that the additional wells & steel piping at the head works will be exactly similar to those now existing ,that the proposed new Engine will simply be a duplicate of those now in the Main Engine House & that the pipes &c will be similar to those already laid down. The only variation will be as regards the fountains which will be formed of masonry with Tylor's Patent Waste-not Taps & these, much cheaper than the pattern now in use ,have been found to be more effective as regards prevention of waste of water .

9. The estimate rates have been based on the cost of works as already carried out-allowing for difference in exchange rates &c. It is probable that the river works will cost proportionally more than they did & a small increase of rates has in this instance been allowed but work of this sort is always so difficult to estimate correctly that it is only when contracts are settled ,the real probable cost can be arrived at.

10. The estimate amounts to Rs 2,08,200 and equals an annual charge on the Municipality at 6¼ % of Rs 13,012.The pumping charges for the additional 424,000 gallons basing them on the existing charges for the present supply will be about Rs 180 monthly or 2,160 annually making a total additional charge on the Municipality of Rs 15,172 annually. To this amount has further to be added the following extra staff for 58 fountains,viz

6 Turncocks & fitters at Rs 7 -------------- = 42
6 Cleansers at Rs 6 -------------------- = 36

78 x 12 =
936

Add

Add for repairs for 58 fountains at Rs 16 per
annum------------- - = 748

1684

15172

Rs 16856

This is on the presumption that Government are not in a position to make any grant towards the cost of the extension.

11. The estimate includes provision for the work being carried out by this department as was the original work.

12. The following is a list of the plans & estimates accompanying this report :-

Sheets Nos.1 to 4 -General Plan shewing headworks ,pipes, fountains,Valves &c.
Sheet No.5 Plan & section of Infiltration Wells.
Sheet No.6 Plan of fountains .
Abstract of Detail Estimates
Detail Estimates

(Sd) J.A.Jones
Sanitary Engineer to Govt.

(True copy)

Sanitary Engineer to Government.

Enclosure to letter No. 1738 of 1897

1 / 3888 M of 1897

Extract from letter No.287 dated 17th.October 1897 from the Inspector of Steam-Boilers & Prime-movers, Madras, to the Sanitary Engineer to Government, Fort st.George.

x x x x x

"2. You will please observe (vide reports attached regarding grooving of piston rods in all 3 engines which should certainly not have been in so short a time that these engines worked) that it will be necessary to place the whole under repair i,e, placed in a lathe & turned down sufficiently to remove the grooving as it is impossible to tighten the glands with rods in such a bad state which helps to raise the consumption of fuel.The cause of the defect is due to dirty packing putting it in with grit,sand &c likewise using dirty instruments for that purpose,furthermore insufficient oiling allowing rods to run hot causing packing to become charred.It will be necessary to rebush piston rod glands high & intermediate only."

"3. The driver in charge should be informed that at all times when glands are to be repacked that it is necessary that he should be present & see that packing is clean & also soaked well in clean oil prior to putting it in glands at the same time using clean instruments for the purpose,and a constant feed of clean oil when engines are working.Had these points been attended to such defects would not have occurred.I would strongly recommend that metallic packing be obtained for these engines (V shaped).The following is found to be a good mixture of anti-friction metal.

Tin ----------------------------------16 parts.
Copper --------------------------------1.5 parts.
Antimony ------------------------------2 parts."

x x x x x x x

"8. I have to report for your information that the general condition of both engines and boilers are good with the exception of the above mentioned defects."

(True Extract)

Sanitary Engineer to Government.

2/3883 M of 1897

Enclosure No 2 to letter No. 1738 of 97

S. E./6. 1,000-8-3-97.

9

No. 1738

GOVERNMENT OF MADRAS.

OFFICE OF SANITARY ENGINEER,

Fort St. George, 10th Novr 1897.

LOCAL & MUNICIPAL DEPT.
CURRENT No. 3883 M

From

J. A. JONES, Esq., MEM. INST. C.E., F.R.S.E.,
SANITARY ENGINEER TO GOVERNMENT,

To

The Secretary to Government,
Local and Municipal Department.

SIR,

With reference to G.O.No.2366.M.Mis of 28th. October 1897, I have the honor to presume that Government had not received my No.1637 of 13th.October 1897 sent through the Secretary of the Sanitary Board and the report in connection therewith.

2. I now enclose a copy of the report (in the form of a note) & beg to draw attention to paras: 5 to 7 of that note wherein my reasons are given for changing the views I formerly expressed in regard to Srirangam being supplied from the Trichinopoly Water Works.

Enc. 1

3. The returns sent to me shew that Trichinopoly is using already, besides what goes to the Railway, Military & Jail, about 13 to 14 gallons per head, whereas in other towns the consumption does not exceed 8 gallons per head. I am doing all I can to reduce this consumption, for I am sure there is a large amount of waste, and I have called the attention of the Chairman several times to the matter - but, as it is, I fear we cannot presume that the consumption will ever again be reduced to a quantity sufficient to allow of Srirangam being supplied from Trichinopoly Main pumping station.

4. As regards para: 2 of the order under reference, I may as well refer to this point also.

an engine,
which might jus

10

5. The Engines have lately been under the half yearly inspection by the Inspector of Steam-Boilers and Prime-Movers. From the following portion of the Chairman's letter, viz, "of which two are reported to be defective and it has been found necessary to work two engines at a time to supply the town", Government no doubt has presumed that because the engines were defective therefore two engines were required for the supply; the statement made is quite incorrect. The Engines in the first place were not defective when they were inspected on September 27th nearly two months after Chairman wrote-they want repair as all engines will do after running for any time, though in this instance as may be seen from the extract from the Boiler Inspector's report attached, the repairs are such as ought not to have been required and due to carelessness in the case of the engines. That the engines are not defective will be seen from the last clause of the same report para 8, copy also sent. Encl. 2

6. Two engines have had to be worked because of the demand for water, that is, two work from 6 to 10 A.M & 4 to 7 P.M and one the remainder of the 16 hours during which pumping goes on; this is also the case at Tanjore & not because of defects.

7. But such statements as those made by the Chairman are not at all unlikely to be made, simply because of a want of technical knowledge of the matter under reference and it only adds strength to the opinion I have always held and represented to Government that all such works ought to be under direct professional supervision; without such, they will never be properly controlled nor maintained with due economy as they ought to be.

I have the honor to be,
Sir,
Your most obedient servant,

Sanitary Engineer to Government.

Accn. 2 - (1 Note & 1 Extract)

Current No. 2723/Rev of 97

TREASURY DEPUTY COLLECTOR
11 AUG. 1897
TRICHINOPOLY.

Local & Munl. (1897) Department.

CURRENT No. 4311 M

Order

From The Chairman,
Municipal Council,
Srirangam

No. 14

SECRETARY TO GOVERNMENT
14. DEC. 1897
LOCAL & MUNICIPAL DEPARTMENT

Dated 10th August 1897
Received 14-12-1897
Registered 14-12-1897
Enclosures 4
Spare copies

SUBJECT.

Submitting copy of resolution of the Council passed at the meeting held on the 17th July 1897, regarding the water-supply scheme of this Municipality, for the reconsideration of Government.

K.R. 11/1/98 6/1/98

BACK PAPERS.

G.O.	No.	Department.	Date.
G.O. Ms.	1542	Local & Municipal	5·7·97·
G.O. Ms.	1731·	Do.	10-10-96

FURTHER PAPERS.

G.O.	No.	Department.	Date.

B

Extract from the Proceedings of the Municipal Council, Srirangam at the meeting held on the 17th July 1897.

Present

M.R.Ry. K. Vasudeva aiyangar avergal. Chairman delegate
" " " S. R. Rengaswami iyengar avl. Councillor
" " " S. Kuppusawmi Sarma avl. "
" " " S. Ramaswami iyengar avl. "
" " " S. Srinivasalu Naidu Garu "
" " " S. Subrahmania Sastriar avl. "
" " " R. Viraraghava aiyar avl. "
" " " S. Muthusawmi Pillay avl. "
" " " Shanmugam Pillay alias Muthusawmi Pillay avl. "

× × × ×

Para 2 — Read, Proceedings of the Madras Government, No 1542 M. Mis, dated 5th July 1897, regarding the water-supply Scheme of Srirangam Municipality: —

The Council once more respectfully requests the Government to

... an engine, which might ...

4

B

to give the usual grant; otherwise the much needed project will have to be given up altogether. As for the other half of the sum required, the Council will try to raise the loan in the open market but it doubts very much whether it will succeed in the endeavour as very high rate of interest prevails here. The Council is further of opinion that it will be able to meet the annual charges involved in the repayment of the loan and in the maintenance of the works, provided they get the half grant from the Government and they succeed in raising the loan at a rate of interest not exceeding 4 per cent.

x x x x

(Signed) K. Vasudeviengar
Chairman Delegate.

1 / 4311 M of 1897

(True copy)
K. Seshadriyengar
Chairman

15

Ref. on Cur. No. 2723/Rev of 97.

Trichinopoly Collector's Offic
14th August 1897.
Desp'd 17th August 97.

From

Bannatyne Macleod Esq., M.A., Bar-at-Law,
Ag Collector of Trichinopoly,

To,

The Chairman, Municipal Council,
Srirangam.

Sir,

With reference to your letter No. 314/10.8.1897 addressed to Government, I have the honour to request that you will be good enough to report definitely at an early date, the steps the council propose to take to raise the loan in order to carry out the water project and also the approximate amount of water-tax and the extent of other sources available, with a view to enable the Government to decide whether the annual charges involved in the repayment of the loan and in the maintenance of works, can be provided for. It has to be observed that Government has lately ordered that loans to Local and Municipal bodies should be

ade with great caution considering the
esent state of finance.

I have &c.

(Signed) Bannatyne Macleod,
Ag Collector.

(True Copy)

For Ag Collector.

2 / 4311 no of 1884

Extract from the Proceedings of the Municipal Council, Srirangam at the meeting held on the 13th November 1897.

COLLECTOR AND MAGISTRATE, 9 DEC 97 TRICHINOPOLY.

Para 4 — Read letter from the Ag Collector, Trichinopoly, Ref on Cur No $\frac{2723}{Rev}$ of 97, dated 17th August 1897, requesting to report definitely at an early date the steps the Council propose to take to raise the loan in order to carry out the water project and also the approximate amount of water tax and the extent of other sources available with a view to enable the Government to decide whether the annual charges involved in the re-payment of the loan and in the maintenance of works can be provided for:—

The Government in their proceedings having stated that they cannot hold out any hope of grant and as the Municipal Council cannot in the absence of such a grant possibly undertake the water scheme, the Council

which might [illegible] require,

Council thinks that the queries of the Collector require no reply at present.

× × × ×

Sd/ T. Kuppasawmi Sarma
Chairman delegate

(True Copy)

Revenue D. officer and Ex officio
Chairman

TB

3/4B 11 u of 1897

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4 1897.

Srirangam Municipal Councillors' Office.

From.

The Chairman,
Municipal Council,
Srirangam.

To

The Collector of
Trichinopoly.

Dated 7 } December 1897.
Despd. 7 }

No. 603.
Enclosures. 6.

Sir,

With reference to your letter Ref. on. Cur. No. 2723/Rev. of 97, dated 17th August last, I have the honour to forward herewith copy of resolution of the Council passed at its meeting held on the 13th Ultimo for your information.

I have &c.

(Signed) V. Ramaswami Aiyar.
Revenue Divisional Officer and
Ex-officio Chairman.

(True Copy)

For Ag Collector.

which might

4/4811 M of 1897

No. 314.

Municipal Councillors office,
Srirangam. 10th August 1897

LOCAL & MUNICIPAL DEPT
No. 4811 M

From

M.R.Ry. K. Seshadriyengar Avergl.
Chairman,
Municipal Council,
Srirangam

To

The Secretary to Government,
Local & Municipal Department
Madras
Through the Collector of
Trichinopoly

Sir,

Adverting to the Proceedings of Government No. 1542 M. Mis, dated 5th July 1897 regarding the water supply scheme of this Municipality, I have the honor to submit herewith an Extract from the proceedings of the Council passed at the meeting held on the 17th Ultimo and to request you will be good enough to move the Government to reconsider their Order and to sanction the usual grant

grant as requested by the Council.

I have the honor to be,
Sir,
your most obedient Servant
T. Seshadriyengar
Chairman

Dis No $\frac{2203}{800}$ of 97. Dated 13-12-97

Forwarded.

2. The Council is apathetic. It has not evidently taken any trouble to go into the matter deeply. It has relied, all along, upon the hope that the Government would advance the necessary money, and finding this hope vain, declines to enter into the question of ways and means.

For Ag. Collector.
13.12.97.

23

MUNICIPAL OFFICE,

No. 7

TRICHINOPOLY 18th January 1898.

LOCAL & MUNICIPAL D
CURRENT No. 420M

FROM,

Surgeon Lt. Col. W. O'Hara

CHAIRMAN,
Municipal Council,
TRICHINOPOLY.

TO,

The ~~Chief~~ Secretary to Government,
Local and Municipal Department,
FORT ST. GEORGE.

~~Through the Collector of Trichinopoly~~.

SIR,

With reference to para 2 of G.O. No 2366 M. Mis dated 28th October 1897, I have the honor to inform the Government that the Pumping Engines which were reported by the Head Driver in charge to be defective were since examined by the Inspector of Steam Boilers and Prime Movers and pronounced to be in good working order. The chief defects noticed by him were that the piston rods and plungers of two engines were badly grooved. The piston rods and plungers of one of the Engines have been rematalled and rebushed at a cost of about Rs 400, and it is intended to have those of the 2nd engine similarly treated.

The engines are now working efficiently.

I have the honor to be
Sir
Your most obedient servant

William O'Hara

Chairman.

BACK PAPERS.

G.O.	No.	Department.	Date.
Jo	2366	Lcl	28 10 97

FURTHER PAPERS.

G.O.	No.	Department.	Date.

22

KR

Local & Munl. (1898) Department.

CURRENT No. 420 M

From The Chairman
Municipal Council
Trichinopoly

Order.

SECRETARY TO GOVERNMENT
No. 7.
25. JAN.-1898
LOCAL & MUNICIPAL DEPARTMENT

Dated 18/1/98

Received 25-1-98

Registered

Enclosures

Spare copies

SUBJECT.

Reporting that the Piston rods and plungers of 2 engines were badly grooved and that the piston rods and plungers of one of them have since been repaired at a cost of about Rs 400/

KR 25/1/98

2/2

24

[G./25]
250—

C. No. 3883 M & 4311 M of 1897.

SUBJECT.

Srirangam water supply scheme

FA [illegible]

H.M

FOR ORDERS.

A.

The proposed G.O. will do, so far as it goes; but does it go far enough? So far as I know, the scheme for the Srirangam W.W. has never been properly worked out on the basis of ~~an~~ the provision of independent head works. We should call, I think, for a complete scheme, in preparing which the San: Engr. shd. consider whether it would not be better to draw the supply from the Coleroon instead of from the Cauvery.

B.

From the map in G.O. $\frac{938\ M}{6.6.96}$ it strikes me that a shorter line of main would in that case be suff.t. On the other hand, the supply of fuel ~~to~~ a station on the bank of the Coleroon might be more expensive than to a station on the bank of the Cauvery. They are using wood at Trichinopoly now & are paying high for it. Wood fuel may be cheaper north of Srirangam /- I don't know. Of course they ought to use coal at Trichy, but they have not as yet been able to arrange for a supply at reasonable rates.

I don't know how the cost of

In G.O. No. 1542 M dated 5th July 1897, the Government considered that the objections ta by the municipal council of Trichinop to share the water supply with Sriran were not well founded, and informe the council that, in the face of Mr Jones' remarks in paragraph 12 of his letter No. 1559, dated 19th May 1896, embodie in G.O. No 1731 M, dated 10th October 189 there seemed to be no reason to delay or to hesitate in accepting the Srirangam project as a part of the Trichinopoly scheme. The Srirangam municipal council was at the same time informed that in the existing state of the Provincial finances, the Government ~~cannot~~ could hold out any prese hope of being able to give a loan

which might [illegible] engine,

N.B → No

× Why not mentioned? The charges of water shd. always be mentioned

grant towards the cost of its ater supply scheme and that it would ill have to raise a loan in the pen market and it was accordingly requested to report what steps proposed to take to raise such a oan and whether a water tax under e amended municipal act will ot be sufficient to provide for the nnual charges on account of the scheme.

2. On this the municipal ouncil of Trichinopoly represented at the supply of water from the xisting Trichinopoly works was nadequate for the requirements f that town itself; but the Government i its order No 2366-M, dated 28th ctober 1897, stated that it saw no eason to reconsider its previous der in the matter.

3. With his letter read above, he Sanitary Engineer forwards copy l his report on the proposed extensions to the Trichinopoly water-upply scheme and states that he as now changed his opinion in egard to Srirangam being supplied om the Trichinopoly waterworks

the repayment of the capital cost shown on p 8× has been arrived at. I make out that at 3% (which is the highest rate which it wd. be safe to take) an annuity of Rs 1773 ~~[illegible]~~ accumulated at compound interest would clear off a debt of 2 lakhs (the minimum probable cost of the works) in 50 years. But I may have made some mistake.

I take 3% as the rate the Municy. might expect to ~~[illegible]~~ ~~today~~ get. It would probably have to pay 4% at least. This seems a low rate, but I think it could be done at this rate. Application should of course be made to the Madras & other Banks for the rate at which they would finance a loan. And there are other sources from which a certain amt. of money could probably be got on reasonable terms — The Dt. Ct. of Tanjore holds a large amt. of Govt. paper belonging to the Palace Estate. Quite possibly the H.C. might consent to its reinvestment in a Municl. security yielding a better rate. Then there are the Civil & Milty. Female Orphan asylums in Madras. I know the managers of these would be glad to invest 2 or 3 lakhs (between them) in Municl. securities at 4% — On the

C.

Vide para. 7 of his note. (G.O. 3883 M)

whole, I see no reason to think that the Srirangam Mu. C. C. not raise 2 lakhs loan without Govt. assistance

H.S.
28/1/98

in the

He points out that the consum of water by the town of Trichin besides the water taken by the Military and Jail Departments, already considerably greater in other towns and that, althoug he has been trying to reduce th large consumption, he fears tha it cannot be reduced to a quant sufficiently small to allow of Srirangam being supplied from the Trichinopoly main pumping station. On the other hand, the prese supply of water from the Trichinopol water works is insufficient for the town itself; and in order to meet this deficiency and to provide for the extensions of the water supply to the other parts of the town, viz:- Worriyur and Puttur, it is necessary to construct three additional wells and provide a fourth engine; and as all the wells and engines will be required for Trichinopoly, the Sanitary Engineer considers that the admission of Srirangam as a participator in the Trichinopol scheme will entail some additional buildings and an engine, which might [illegible]

X [illegible] ? The

he opposite side of the river (very) near Srirangam, — an angement which will provide independent source of water-pply to Srirangam, at practically same cost as the joint scheme.

4. The Sanitary Engineer, having spite of the repeated representations ade by the Trichinopoly municipal ouncil, strongly expressed the pinion that Srirangam can be supplied with water from the Trichinopoly works, the Government informed the municipal council of Trichinopoly that there was no reason why the Srirangam project should not be accepted as a part of the Trichinopoly scheme. In the circumstances now stated by the Sanitary Engineer, however, the Trichinopoly council need not be required to take Srirangam as a participator in the water-supply scheme. From the Sanitary Engineer's letter, it appears that an independent water supply scheme for Srirangam might be established on the side of the river (Cauvery) opposite Trichinopoly, and that [illegible] expenditure which

A. 1

will have to be incurred in the construction of wells &c, would be covered by the contribution which it would have been necessary to pay to the Trichinopoly municipality for the use of portions of its buildings, mains &c, if it had participated in the joint scheme. If therefore the municipal council of Srirangam is able to find the necessary funds for carrying out the joint scheme, there seems to be no reason why the alternative scheme now suggested by the Sanitary Engineer should not be undertaken.

G.O. 4311 M.

5. With the second letter read above, the Chairman of the Srirangam municipality submits the report called for from the council in paragraph 2 of G.O. No 1542 M, dated 5th July 1897, regarding the ways and means for carrying out the proposed joint scheme. The council now requests that, as usual, a half grant may be made from Provincial funds towards the cost of the water-supply scheme, as otherwise the much needed project will have

A

to be given up altogether, that it will try to raise the other half of the required sum in the open market, although it is very doubtful whether it will succeed in the endeavour, as a very high rate of interest prevails there, and that it will be able to meet the annual charges involved in the repayment of the loan and in the maintenance of the works, provided it gets a half grant from Government and succeeds in raising a loan at a rate of interest not exceeding 4 per cent. In his endorsement, the Collector observes, and rightly too, that the council is apathetic, that it has not evidently taken any trouble to go into the matter deeply, that it has relied all along upon the hope that the Government would advance the necessary money and that finding this hope vain, declines to enter into the question of ways and means.

6. As already pointed out in paragraph 2 of G.O. No 1542 M, dated 5th July 1897, the Government cannot in the present embarrassed state A.

of its finances, promise any grant or loan from Provincial funds towards the Srirangam water-supply scheme. Nor does it consider that the apprehensions expressed by the municipal council regarding its inability to raise a loan of the requisite funds in the open market at all well founded. It must be possible for the municipal council to raise loans in the open market at 4 or 4 1/2 per cent interest, if the period of repayment is extended to, say, 30 or 50 years and if tenders are invited by public notices. In fact, the longer the period of repayment, the more favourable will be the terms on which the council can get the loans. Similar loans have frequently been raised by the City of Madras Municipality at 4 or 4 1/2 per cent interest, and also, at a slightly higher interest, by some ⊗ of the mufassal municipalities and there seems to be no reason why Srirangam could not do so if it makes earnest endeavours in the matter. Nor can the Government accept the council's assertion that the proposed scheme will

Vide H. M's remarks in G.O. No 2775 M / 11-12-97 E.

⊗ Note
Guntur, Palghat, Madura &c.

have to be abandoned unless a half grant is made from Provincial funds. The cost of the joint scheme was estimated at Rs 173,099 and the contribution payable to the Trichinopoly municipality for the use of pipes &c at Rs 5,938. Assuming that the total cost of the scheme is raised as a loan in the open market, as it will certainly have to be, at say 5 per cent interest, repayable in 50 years, the annual charge on account of repayment of loan will be Rs 12,110.® According to the Sanitary Engineer, the maintenance charges of the separate scheme will be nearly equal to the contribution which would will have to be paid to the Trichinopoly municipal council, if Srirangam had participated in its water supply. The total annual charges on account of the scheme will thus be about Rs 18,050.* To meet this additional expenditure, the municipal council can raise the tax on buildings and lands from the present rate of 6¼ per cent to the maximum rate of

Vide para. 8 of the Sanitary Engineer's letter in G.O. No 938 M. D. / 6-6-96

112.797) 200000000

log 200000000 = 8.3010300
log 112.797 = 5.0522976
log 1773.1 = 3.2487324

® Interest at 5 per cent — Rs 8,650
Repayment of principal — 3,460
12,110

1773

1730
6920
17730
8793
5938
14731

2000

* Repayment of loan — Rs. 12,110
Maintenance — 5,938
18,048

8½ per cent of the annual value and also levy the water-tax at the maximum rate of 8 per cent provided in the amended Act. The extra revenue which could be raised from these sources is Rs 17,750,* which is very nearly equal to the required amount. This can be further increased by a careful revision of the tax-registers, as the incidence of the tax on buildings in 1896-97 was only Rs 1-10-4 per house taxed, against a general average of Rs 2-4-9 for municipalities in that year and that of the tax on arts was Rs 2-8-7 against an average of Rs 4-2-7. It will thus be seen that the municipal council can carry out the scheme, without any help from Government, if only it is prepared to impose taxation at the enhanced rates provided in the amended municipal act. It is therefore submitted that the council may be asked to examine thoroughly the question of ways and means and to report whether it cannot carry out the scheme now suggested by the Sanitary Engineer. If the council agrees, the Sanitar

* Net current demand of the tax on buildings and lands at 6¼ per cent in 1896-97 — Rs 10,826.
An increase of 10¼ per cent would yield — 17,755.

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Engineer, may be called upon to prepare detailed plans and estimates.

7. With reference to paragraph 2 of G.O. No. 2366 M, dated 28th October 1897, the Sanitary Engineer states that the Engines referred to are not defective, but require slight repairs rendered necessary by carelessness in using them, and submits an extract from the report of the Inspector of Steam Boilers and Prime Movers on the inspection of the Trichinopoly water works engines. The attention of the municipal council may be drawn to these remarks.

C.

This is now unnecessary. Vide C. since received.

8. The accompanying draft order is submitted for approval.

V.R.
27/1/98

H. I.
27.1.98

3

Srirangam water supply Scheme

34

[L. & M.
300—2-12-9]

LOCAL AND MUNICIPAL DEPARTMENT.

Papers to be read in Proceedings :--

Again GO., No. , dated 189 .

Again G.O., No. , dated 189 .

Current No. 3883 M of 1897, dated 10th November 1897, from the Sanitary Engineer

" " 4311 M " 1897, " 10th August 1897, " the Chairman M.C. Srirang

" " 420 M " 1898, " 18th January 1898, " the Chairman M.C. Trichinopoly

P.S.

ORDER.

In the circumstances now stated by the Sanitary Engineer, the Government will not insist on the municipal council of Trichinopoly accepting the Sriranga project as a part of the Trichinopo water-supply scheme.

2. In its resolution submit with the second letter read above the municipal council of Sriran states that it will have to aban the water supply scheme for the unless a grant of half the initi cost is made from Provincial and fears that it will be unabl to raise a loan in the open mark as a very high rate of interest p vails there. But as already poi out in paragraph 2 of G.O. No. 154

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dated 5th July 1897, the Government cannot in the present state of its finances promise any grant or loan from Provincial Funds towards the Srirangam water supply scheme. Nor can it accept the council's contentions that it will have to abandon this scheme, unless a half grant is made from Provincial Funds and that it cannot raise a loan in the open market for the purpose. The municipality of Madras and some of the mufassal municipalities have raised loans in the open market at moderate rates of interest and it does not appear that Srirangam cannot do so, if the period of repayment is extended to fifty years. ~~Application~~ inquiries should be made of ~~to~~ the Madras and other nks for the rate of interest at ich they would lend the amount. here are also other sources from h a loan could probably be as to which the Collr: sd be consulted on reasonable terms, The District rt of Tanjore, it is believed, holds large amount of Government curities belonging to the Palace ate and it is quite possible t the High Court may consent its reinvestment in a municipal

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[

Bracketed portion to Collr.
N.1

⊗ Please see note overleaf.

security yielding a better rate of interest. The managers of the Civil and Military Female Orphan Asylum would also probably be willing to invest some two or three lakhs of rupees in municipal securities at 4 per cent interest.] The increase in the rate of the tax on buildings and lands from 6¼ ~~the present rate of 6¼ per cent~~ to 8½ per cent of the annual value and the levy of a water and drainage tax at 6¾ per cent will, in the opinion ⊗ of Government, yield sufficient extra revenue to meet the annual charges on account of repaymen of the loan and the maintenanc charges of ~~a~~ water supply [scheme which might be carried out at a cost of about two lakhs]. As, however, no scheme for the wat supply of Srirangam has yet been properly worked out on the basis of the provision of in dependent head works, the Sanit Engineer is requested to prepar one ~~a complete scheme on this hy pothesis~~. In doing so, he shou consider whether it would be better to draw the supply from the Coleroon, instead from the Cauvery, as in tha a short line of main would perhaps be sufficient. But the supply of fuel to a station on the bank of the Coleroon might be more expensive than to a station on the bank of the Cauvery.

(From orders)

V.R.
17/7/98

__Note.__

With reference to the Honorable Member's query on page 2 of the note for orders as to how the cost of the repayment of the loan shown in page 8 thereof (Rs 3460) has been arrived at, it is submitted that the annual payment on account of the loan has been taken at 1/30 th of the principal (i.e.) the principal divided by the number of years within which it is repayable, as is done in the case of some municipalities under G.O. No 576 M, dated 13th May 1887. If however, the sinking fund is allowed to accumulate with compound interest, the annual payment on account of the principal of the loan will be only Rs 1773 as put down by the Honorable Member. Assuming that, as pointed out by the Honorable Member, a loan is got at 4 per cent interest repayable in 30 years, the total annual expenditure on account of the scheme, including the sinking fund of the loan and maintenance charges, will be Rs 15,710 and can be met by raising the tax on buildings and lands to 8½ per cent of the annual value and by imposing a water tax of 6¾ per cent.

V.R.
18/7/98

Please see revised draft put up.

J

Note.

	Rs
Pay to the sinking fund —	1773
Interest at 4 per cent —	8000
	9773
maintenance charges	5938
	15,711

To
The Chairman. M. C. Trichinopoly
" " Srirangam } through the Collector of Trichinopoly
" Sanitary Engineer.

	Rs
Net current demand of the tax on buildings & lands at 6¼ per cent in 1896-97	10826
An increase of 9 per cent will bring in an addl revenue of Rs	15588.

[L. & M.
300—2-12-97]

LOCAL AND MUNICIPAL DEPARTMENT.

Papers to be read in Proceedings :—

Again G.O., No. , dated 189 .
Again G.O., No. , dated 189 .
Current No. 3883 M of 1897, dated 10th November 1897 from the Sanitary Engineer.
" " 4311 M " 1897, " 10th August 1897 " the Chairman M.C. Srirangam.
" " " 189 , " , "

P.S. Misc
H-M

ORDER.

(Approved)

In the circumstances now stated by the Sanitary Engineer, the Government will not insist on the municipal council of Trichinopoly accepting the Srirangam project as a part of the Trichinopoly water supply scheme.

2. It seems however ~~possible~~ that, if sufficient funds ~~could~~ can be raised, a separate scheme for the water supply of Srirangam can be carried out at almost the same cost as the ~~joint~~ scheme originally proposed. ~~But~~ In its resolution submitted with the second letter read above, the municipal council of Srirangam states that the proposed water supply scheme will have to be abandoned unless a grant of half the initial

outlay is made from Provincial funds and it fears that it will be unable to raise a loan in the open market, as a very high rate of interest prevails there. But as already pointed out in para. 2 of G.O. No 1542 M, dated 5th July 1897, the Government cannot in the present state of its finances, promise any grant or loan from Provincial funds towards the Srirangam water supply scheme. Nor can the Government accept the councils ~~assertions~~ contentions that the proposed scheme will have to be abandoned, unless a half grant is made from Provincial funds and that it ~~doubts whether it will succeed in raising~~ cannot raise a loan in the open market for the purpose. The municipality of Madras and some of the mufassal municipalities have raised loans in the open market at moderate rates of interest, and it does not appear ~~why~~ that Srirangam cannot do so, ~~Moreover, the Government considers that the council will be able to get more favourable terms~~ if the period of repayment is extended to ~~20 or 30~~ 50 years, ~~as in~~

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~~the case of loans,~~ ~~city of Madras municipality.~~ The increase in the rate of the tax on buildings and lands from the present rate of 6¼ per cent to 8½ per cent of the annual value, ~~and~~ the levy of the water and drainage tax at the maximum rate provided in the amended municipal act and the careful revision of the tax registers will, in the opinion of Government, yield sufficient extra revenue to meet the annual charge on account of repayment of the loa and the maintenance charges of the scheme. The municipal council is accordingly reque to consider the question of wa and means thoroughly and report the result to Governme

3. The attention of the m nicipal council of Trichinop is drawn to the Sanitary En remarks in paragraph 5 of his

V.R.
27/1/98

H. T.
27.1.98

Omitted in the first draft as the refce to Vide C No. 430 M since received.

To
The Chairman M. C. Trichinopoly } through the
.. .. Srirangam } Collector of Trichinopoly
.. Sanitary Engineer.

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189 .

AIN G.O., No. , DATED
189

No.

O. No.

OF GOVERNMENT .. .. .. A A A A A A A

OF GOVERNMENT.

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NOT FILLED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.

N.B.—
A = Copy in full.
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