

Local & Munl. (1898) Department.

MISCELLANEOUS. *abstract*

G.O., No. 12,10 M.

DATED 8. 7. 98.

INDEXED.

[Despatch Abstract.]

Trichinopoly Water-Supply.

Declining to reconsider its order in G.O., No. 736 M., dated 8th December 1897, regarding the extension of the ——— and stating, with reference to the ~~Collector~~ ^{Collector} Should Consider the possibility of raising a loan in the open market.

BACK PAPERS.

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

FURTHER PAPERS.

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

Gl. Cur. Regr. No. 1249 of 1898

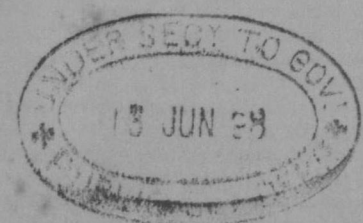
Local & Munl. (1898). Department.

460 (plans & estimate)

CURRENT No. 2025M

Cost on cur 1249 of 98

Forwarded Decr 10.6.98.



R H Shipley
of collector

From

The Chairman
Municipal Council
Trichinopoly

g. b. 98

Order

Rise

No. 29.

order 121078th July 1898

The Government ^{much} regrets Dated

30. 5. 98

that it is unable to reconsider Received

to order in G.O. 27368 of 8th Decr Registered

It has not the means to make

Enclosures 3

Spare copies.

1/2

either a grant or a loan. The Cl. sh.
consider the possibility of raising a loan
the Government.

1/7/98

When Mr. Shipley comes up here on leave,
he will be asked to speak to me about this.

The Chairman Mr. Trichinopoly
that the collector

Reporting on the proposed
extension of the water supply
works, Pottore & Cantonment.

887/58 Decr 2.6.98

Forwarded.

M. Minerva

2.6.98.
Collector

g. b. 98

1/2 24/6.

BACK PAPERS.

G.O.	No.	Department.	Date.
	2736	Adm	8/29/97

FURTHER PAPERS.

G.O.	No.	Department.	Date.

No. 29.

FROM,

Surgeon Lieut Col. Cross

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 G. O. No 2736 in his dated the 8th December 97, I have the honor to inform the Government that the Municipal Council discussed the question of the proposed extension of the water supply to Vondur, Puthur, and parts of the Cantonment at its meeting held on the 20th January last, but could come to no definite conclusion, - as considerable difficulty existed regarding the sources from which a loan could be obtained, and the manner by which the annual charges thereof should be met. Accordingly I again placed the subject before the Council, whose resolution on the subject is enclosed. The Council, being

already financially embarrassed, is
Constrained to beg that the Government
will be pleased to reconsider its order
regarding the payment of a half grant from
Provincial funds, and the loan of the re-
-maining portion of the estimated cost of
the extension — (a work which will bene-
-fit a population of 28,276 people and
stamp with completeness so valuable a
Scheme). The Council will, then alone,
be able to strain its resources and meet
the resulting charges.

2. The plans and estimates are herewith
returned.

I have the honor to be,

Sirs

your most obed^t Serv^t
Munim Chandra
Chairman

Extract from the Proceedings of the
Municipal Council, Trichinopoly, passed
at the meeting held on the 27th May 1898.

Present.

Surgeon Lieut Col. W. S. W. S. W.	Chairman
J. N. Le Mesurier Esq.	Councillor
M. R. by M. Srinivasa Rowgaru	Revenue Officer
" J. V. Annaswami Sundarajar aol	Councillor
" A. C. Chidambaram Sundarajar aol	"
Rev S. Guanamuthu M. A.	"
M. R. by A. G. Lopala Esq aol B. A.	"
" K. Kandaswami Pillai aol	"
" J. P. Ramayulu Saikodgaru	"
Mahammad Alladullah Sahib	"
M. R. by D. S. Chellappa Chettygar aol	"
Mahammad Fariduddin Sahib	"
M. R. by J. M. Subbaramania Pillai aol	"
Mahammad Saigunddeen Sahib	"
M. R. by J. S. Annamahaswara Esq aol	"
" C. G. Thiruvengadam Pillai aol	"

Para 74. Resol G. C. No. 2736 M. M. dated 8th
December 1897 regarding the extension of the
water supply to Tronore, Outhar, and parts

of the Cantonment together with the estimates
amounting to Rs 2,08,200

The Government will be informed
that the Council finds it impossible to finance
a Scheme unless the terms, under which the
original Water works were undertaken, are
granted by Government i.e. that Govern-
ment makes a free gift of half the cost
& lends the remaining half at 4 1/4 p. c.

/ signed / W. S. K. A. R. A.
Chairman

/ True Extract /

Municipal Office
Trichinopoly
May 1898

W. S. K. A. R. A.
Chairman

2025m/98

Note by the Sanitary Engineer

in reference to the

Proposed Extension of Trichinopoly Water Supply Works.

The plans, sections and 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 exten-
sion amounts to 38,276, and the supply required at 15 gal-
lons per head will therefore amount to 424,140. The works as
at present arranged were designed to supply

To Fort &c -----	900,000 (at 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

38,276 at 15 gallons ----- 424,140

Total

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 3×350 gallons per minute = 750 gallons, or throughout the 24 hours $750 \times 60 \times 24 = 1,080,000$ 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.

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 $\frac{1,481,000}{2 \times 6 \times 60} = 2,057$ gallons per minute and would require $\frac{2,057}{350} = 6$ 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 as 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

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 and 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 2,057 gallons per minute. The existing three engines can pump 3×725 or 2,175 gallons per minute and 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 condition of the Trichinopoly Works & to the fact that Trichinopoly will

want

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 & 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 and 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

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 $6\frac{1}{4}\%$ 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 for repairs for 58 fountains

at Rs16 per annum----- = 748

1684
15172

Rs 16,856

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 & estimate 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.

Office of Sanitary Engineer,

Fort St. George, 13th October 1897

Amusi Amusi
for Sanitary Engineer to Govt.

Enclosure to letter No. 1627 of 1897

21

L. & M.
200-12-8-97

NOTE FOR THE D.O

My dear Shipley,

Sir Henry Bliss ^{wishes} ~~would~~ like ^{him} to speak to you about the Trichinopoly Municipal Council's request for a grant and a loan required for the extension of the water supply to Worayur, Putter and the Cantonment.

Yours Sincerely

Lms
4/7/98

4/7/98

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6-7-1898

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AGAIN G.O., No. _____, DATED _____
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