

Judicial (1895) Department.

ORDINARY MS.

G.O., No. 1990

Dated 24th Sept 1895

[Despatch Abstract.]

JAIL FILTERS.

Requesting the Inspector-General of Prisons, with reference to his proposal to purchase a Chamberland Pasteur filter for the Parvatipuram Jail, to arrange at an early date for the bacteriological analysis of some samples of the water...

BACK PAPERS.

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

FURTHER PAPERS.

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

[F]

3 000-18-95.

ORDINARY, MS.

Judicial DEPARTMENT.

 G.O., DATED *24-5-55*

 No. *1950*

INDEXED.

When given for copying. *30/5*

[Despatch Abstract.]

Respecting the Insane Guard
of Prisons, with reference to
his proposal to purchase
a Chamberland Patience
filter for the Purification
of the water, to arrange at an
early date for the bacteri-
ological analysis of some
samples of the water.

230/9

4278

BACK PAPER, No. 982:10-5-95 OF 189

FURTHER PAPER No. 4922/95 OF 189

2324
14 11 95READ AGAIN ORDER OF GOVERNMENT, DATED
189, No. MISCELLANEOUS.

ENCLOSURES.

CURRENT No.

STATEMENT WITH DITTO.

ORDER OF GOVERNMENT

A A

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH
IN ORIGINAL (not paged).

N.B.—

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

No. 5402

OFFICE OF THE INSPECTOR-GENERAL OF PRISONS, MADRAS,

Dated Ootacamund, the 5th September 1895.

From

A. G. CARDEW, Esq., M.A.,

INSPECTOR-GENERAL OF PRISONS,

MADRAS,

To

THE HONOURABLE MR. J. F. PRICE C.S.I.

CHIEF SECRETARY TO GOVERNMENT,

SIR,

8. Enclosures.

With reference to Judicial Op. 10th May 1895, No. 982, I have the honour to state that enquiries have been made regarding the Pasteur-Chamberland Filter from Messrs Defries & Sons, 147 Houndsditch, London E.C., the London vendors, and from Messrs Heathy and Gresham, 7 Hastings street, Calcutta, the Indian Agents for the sale of the Filter.

2. The enquiries were directed specially to price, yield of water, need for supervision and measures for cleaning and repairing the Filter. The price and water yield, of course, vary with the size and are noticed below. As regards supervision, Messrs Heathy and Gresham state that no skilled supervision is necessary. In order to clean the Filter the candles have merely to be brushed with a hard brush to remove deposited matter, and once in six or eight weeks boiling water should be passed through to sterilize the filter. As regards repairs, as the filter is simple, these are likely to be few, and would only arise through accident.

3. The principle of the filter is the use of a filtering medium capable of preventing the passage of any

X
Returns with form
to Govt for signature
& dispatch
30/9

of any organism, and the passage of water through this medium under pressure.

4. I enclose for the perusal of Government, the marginally noted printed papers giving information regarding the effects of the Pasteur Filter in reducing typhoid fever in the French Army, the opinions of various scientific authorities on the use of the Filter, a report on the application of the Filter at Darjiling with directions for its use. Messrs. Heathy and Gresham add that they are fitting up the Filter for use in the Motihari and Dumka Tails in Bengal, the average population of which in 1894, was 326 and 82 respectively.

5. From the information thus supplied it will be seen that there is no doubt of the value of the Pasteur Filter as a preventative of disease. It is, however, unfortunately expensive and owing to the water supply of Tails being usually obtained from wells and not under pressure, additional outlay is required. I enclose two specifications, with connected ferrotypes, for two sizes of the Pasteur Filter, the one yielding 400 gallons a day, the other 2000 gallons. The cost of the one installation is Rs 755, that of the latter Rs 3095. It would evidently be impossible to supply all Tails with these Filters.

6. This however is doubtless not necessary, as the water supply in most Tails in this Presidency is satisfactory, as is proved by the vital statistics. It was only proposed to apply the Filter to those Tails which are unhealthy, and I would now strongly recommend that an immediate trial should be made of the Filter in the Parvatipur Tail. A full report on the epidemic of dysentery and diarrhoea which occurred in that Tail in 1894 and which caused 29 deaths is contained in my Letters recorded in G.O. 8th March 1895.

1. Filtration of Water - From the Lancet.
2. The Pasteur Germ Filter - Scientific opinion and experimental results.
3. The installation of Pasteur's Filter at Darjiling. From the Indian Medical Gazette.
4. Directions for use of the Filter.

N^o 570

N^o 570. During the current year there has been a further outbreak, which though less severe than last year, has already raised the death-rate to 43 per mille (nine deaths) for 7 months of the year 1895. Although the water, judged by Chemical analysis, was not impure, no bacteriological analysis has been undertaken and in the absence of other causes, it is probable that the water supply is at fault. The Tail being a small one, with a population which will not be allowed to rise above 250, it is well suited for the trial of the Pasteur Filter. Allowing a consumption of 2 gallons per head for drinking and cooking purposes, I consider that the smaller application - costing Rs 755 will be sufficient and I solicit the sanction of Government to procure this at once from Messrs Heathy and Gresham, instead of through the India office, on the ground that it is a matter of urgency that this means of checking the mortality at Parvatipur shall be tried.

I have the honour to be,

Sir,

Your Most obedient Servant

A. G. Cardew

Insp. Genl. of Police.

JUDICIAL.

JAIL (1895) DEPARTMENT.

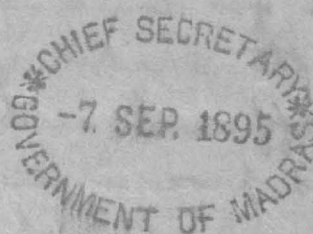
From

THE INSPECTOR-GENERAL OF PRISONS,

Madras,

To

THE CHIEF SECRETARY TO GOVERNMENT,



Dated

5th

Despatched

Received

September 1895.

No. 5402.

ENCLOSURES.

Subject.

Reports, with reference to G.O. 10th May 1895 N. 982, the prices of the Pasteur Chamberland Filters and the quantity of water which can be passed through them per diem and solicits sanction of Government to procure one from Messrs Heathy and Gresham to be tried at the Parvatipur Hill Jail.

CL No 4056/95 1009d.

982d 10.5.95 Mis

500d 8.3.95 u (260)

10.1.96d 10.5.93.

30.1.96d 20.8.95 Mis.

[G. 24.]

500-23-7-95.

DEPARTMENT.

Papers to be read in proceedings:—

Again G.O., dated

189 , No.

Again G.O., dated

189 , No.

Current No. 4278

of 1895, dated 5th Sep, from *to Sd. of Prison*

" "

" 189 , " , "

" "

" 189 , " , "

It is

For order. is to be better. the Sd.

should not be requested to arrange for a bacteriological exam of the water; there are laboratories in the Govt of India in which this can be done; I believe; This seems an obviously necessary measure to be taken before sanctioning the supply of a costly filter which may not really be required.

ORDER.

Recorded with the remark that the question of supplying the Parvatipur Hill jail with a ~~water~~ filter will be considered on the receipt of the sanitary Commis report refd to in the penultimate paragraph of the S. Sd's letter of 30. Aug. 95; No 1811

This might be done but it would be I should say troublesome & difficult to do it, I think - send samples of water all the way from Parvatipur to the Govt water C. for analysis. I should say - send them by rail. But Mr. C. must manage that.

MS 18/9/95

To the Sd. of Prison (2 rs) : Sanitary Commis (2 rs)

with copy of the penultimate para by Mr C's letter in 3.0.130-8-95. No 1811 & the order.

The supply of filters for
the Jail Dept.

[G.]
 24.
 500-23-7-95.

Jail DEPARTMENT.

Papers to be read in proceedings:—

Again G.O., dated 189 , No.
 Again G.O., dated 10 May 1895, No. 952
 Current No. of 189 , dated , from
 " " " 189 " " "
 " " 4278 " 189 " " "

H M
 C. 18/9
 19/9

ORDER. 24th September 1895, No 1990
 Bm

Before orders can be passed
 on the J.S.'s proposal it is
 desirable to ascertain whether
 the water supply of the Parrotspur
 Jail is contaminated by
 bacteria, & the J.S. will be
 requested to arrange ^{at once} for the
 bacteriological analysis of
 some samples of the water. —
 If it is bacteriologically as
 well as chemically pure, the
 purchase of a Chamberland
 filter will obviously be
 unnecessary

J.S.

22/9/95 - 2
 20/9/95 - 5

The Sheriff " J.S. Pringle (X-45) 20/9/95
 with info re: 20/9/95
 20/9/95 4/10/95

File Filters

Cs.
(from orders)

soon

sent to main
office 1/17/25

When given for copying _____
When copied _____
When examined _____
When signed _____

189

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

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