

Local & Muni. (1899) Department.

MISCELLANEOUS.

G.O., No. 132/m

DATED 30-1-99.

INDEXED.

[Despatch Abstract.]

Sanitation

Recording letter from the Govt. of Bengal forwarding copies of certain papers containing information in regard to the Pasteur filter installation at Dargaching.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

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

Local & Munl. (189) Department.

CURRENT No. 43m

From The Govt of Bengal
Municipal Department.

No. 7254m

For Orders

Please see the reference made to
the Govt of Bengal flagged C. This letter
furnishes the information therein asked for
regarding the Pasteur filter installation
at Darjeeling.

1/R
27/1/99

Recorded

HT

27 199

Keep for ref with
maximum file

Dated 30-12-98

Received 4-1-99

Registered 5-1-99

Enclosures 3

Spare copies

SUBJECT.

Forwarding copies of certain
papers containing
information in regard
to the Pasteur filter instal-
ation at Darjeeling.

Rice
Not 1 for this
up to the main
main file. No 9

Please number under this
+ then return to me 7/2

20/1

BACK PAPERS.

G.O.	No.	Department.	Date.
for	1706	duky	5-10-98

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Copy of a letter No 1429, dated the 16th November 1898, from the Vice-Chairman, Dargeeling Municipality, to the Deputy-Commissioner, Dargeeling.

In reply to your endorsement No 1453 g, dated the 4th instant, and its enclosures, I beg to state that (1) the cost of the corrugated iron shed with iron supports &c. to receive the Pasteur Filter amounted to about Rupees 8,000/- (2) that the Municipality has to pay Rupees 6,000 to Messrs - Heathy and Gresham the Contractors for the filter, (Rupees 3,000/- when the filter is doing its work according to the contract, and Rupees 3,000/- more when it has been successfully at work for 3 years) and that (3) the Filter is expected to pass 120,000 gallons of water in 24 hours. The Filter is still in the hands of the contractors, who have not claimed payment of the 1st instalment and it is not known whether

Enough Estt

whether it does pass this quantity of water
or what is the annual cost of its upkeep.

As regards the manner in which
the Filter does its work, I beg to annex
a copy of a report, No. nil, dated 10th
November 1898 on the subject by
Dr. Cook D. P. H., Health Officer to
the Calcutta Corporation.

Copy of a report dated the 10th
November 1898, by Dr. Cook, D. P. H.,
Health Officer, Calcutta Corporation.

Report on the Bacterial efficiency
of the Darjeeling Pasteur Chamberland
Installation.

It is somewhat difficult to
carry out a satisfactory bacteriological
analysis of water in a place like
Darjeeling where there is no laboratory,
as accurate results depend mainly
upon the elimination of every possible
cause of contamination. If samples
of water are taken to a distance the
results cannot be relied on, as
apart from the danger of conta-
mination the numbers of bacteria
present may be largely increased by
reproduction and unequally so in
different samples as certain microbes
increase more rapidly in a pure water
than in one relatively impure and
vice-versa. In order to make my
cultures on the spot, I had to convey
all

all my apparatus on the back of a cooly to a distance of some miles from where I was living. The method I employed was to sterilise all my apparatus in my laboratory and pack it in sterilised cotton wool in a well fitting box. The Petrie's capsules were kept wrapped up in sterilised paper. Any further sterilisation I did on the spot by means of a spirit lamp. I made altogether 19 culture plates of agar, carbolic agar and gelatine and used either 0.25 or 0.5 C.C. of water for each plate. The agar plates were made at a temperature of 42 to 45 Cent, the gelatine slightly above its melting point. As soon as the medium set the plates were wrapped up again in the original paper and repacked in the cotton wool in the box. I had intended to keep them in improvised incubators made out of Kerosine tins, but owing to my visit being shorter than I had anticipated, I was unable to afford the time to test the regulation of the temperature.

were no colonies. The other agar plates temperature. So I kept the box containing the plates in a room in which a fire was lit in the evening, which made the temperature comparatively uniform.

2. As some cases of typhoid were reported to have occurred in the station I made some special tests for *Bacillus typhi* and *Bacillus coli communis*, the presence of which is generally held to indicate sewage pollution, but I did not find any either in the water taken from the main before filtration or from the taps where the water was distributed.

3. The water before filtration was found to contain comparatively few bacteria, the average number per

per cubic centimetre of water which had developed colonies on the plates after 4 days being only 13 and after 7 days 18.5. In the cultures made from the water which had passed through a recently - - cleaned installation no colonies were developed even after a week. In the cultures made from the water from an installation that had not been cleaned for days on one agar plate and one gelatine plate there were

were no colonies. The other agar plate made with 0.5 cc. of water gave 4 colonies or 8 per cc. So small a number in one plate out of 3 cannot be taken as proving that bacteria came through the filter without repeating the experiment which I had not time to do. They might be airborne bacteria that floated in as I poured the agar into the plate as some moulds did in the case of gelatine.

The water in the cylinders outside the bougies was found to contain on an average about 18 microbes to 1 c.c., The number in a filter that had recently been cleaned was greater than in one that had not been cleaned for 6 days, the probable explanation being that the bougies in the 6 day installation being coated with a film of slime the microbes stuck to them when the water which contained them was forced through, whereas in the recently cleaned filter some of them floated away. The water from a tap at Singamari, North Point was

found to contain on an average 37 microbes to the cubic centimetre.

4. I transferred the colonies which grew in my plate cultivation to agar and gelatine slopes and made stained microscopical preparations of them. They showed no marked characteristics by which I could identify them and I did not think it necessary to carry the research any further.

5. It will be seen from the above that I confined my investigation to three points (1) whether the water coming to the filters coming from the springs was contaminated (2) whether the Pasteur Chamberland installations were doing what it was claimed they would

do and discharging water free from bacteria. (3) The results I obtained show that at the time of my investigation the filters were apparently stopping all bacteria and yielding a bacteria free water, but that the water as supplied to the consumer contained more bacteria.

Whether the water supplied to the house was (a) free from contamination + (b) free from bacteria.

than the water from the springs, I did not investigate the causes of this; but I understand that there are two very obvious ones. (1) that filtered water is stored for some time in the Rockville tank and (2) that unfiltered water is daily passed through the mains for filtered water to supply St Paul's school some of which must run back into the Rockville tank and possibly right into the filters.

6. It will be seen that the results I have obtained and the conclusions I have drawn regarding the working of the filters differ materially from those of Major W. B. Bannerman J. M. Esq. and I do not think that seasonal conditions would appreciably affect the action of the filters in stopping bacteria. If Major Bannerman's samples were taken from the same source as mine, i.e. from the filtered water chamber in the cylinders I can only explain the different results obtained on the supposition that

at the time of his examinations the filters were inefficient, either through there being faulty bangies or faulty fittings, and that the bacteria that came through reproduced rapidly in the filtered water chambers; and that these defects were remedied before the time of my examination 4 months later. If this is the case the conclusion would be that the filters are capable of doing all that is claimed for them, so far as the delivery of bacteria-free water is concerned, if they are properly looked after and tested from time to time, but that they fail if the necessary supervision is relaxed. I have not gone into the question of the amount of water which they are capable of filtering or the loss of head involved in the process, which were outside the scope of my inquiry.

7. As regards the effect of the filtration on the health of the station I was unable to obtain any evidence. A reduction in the

mortality, expects in return for its ^{it is what the} expenditure, and such evidence is ^{public naturally} most valuable as a criterion of the efficiency of water works. I understand that a few scattered cases of typhoid have recently occurred, but unless they have been definitely traced to the Darjeeling water supply, and I am not aware that this has been done, they cannot be accepted as evidence of contamination of the public supply, as the contagium might have been introduced in milk or other media.

DARJEELING WATER-WORKS.

[1895. 84.]

No. 430M., dated Jalpaiguri, the 22nd January 1896.

Memo. by—P. NOLAN, Esq., Commissioner of the Rajshahi Division.

Copy, with the enclosures in original, forwarded to the Secretary to the Government of Bengal, Municipal Department, with reference to his No. 489T.M., dated the 17th September 1895.

No. 691, dated Darjeeling, the 31st October 1895.

From—CAPTAIN M. POWER, Vice-Chairman of the Darjeeling Municipality,
To—The Deputy Commissioner of Darjeeling.

REFERRING to the orders of Government, received with your endorsement No. 1074J., dated the 19th September last, I now beg to enclose, for the information of Government, a printed copy of the contract which has been executed and entered into between the Darjeeling Municipality and Messrs. Heatly and Gresham, Limited, for the supply of a Pasteur Chamberland Filter for the Darjeeling water-supply.

No. 1621J., dated Darjeeling, the 9th January 1896.

Memo. by—BABU P. N. MUKERJEE, Deputy Magistrate, in charge, Deputy Commissioner's Office.

Copy, with the enclosures in original, forwarded to the Commissioner of the Rajshahi Division, with reference to Bengal Government No. 489T.M., dated the 17th September 1895, to his address.

Specification of Pasteur Filter for Darjeeling Water-works.

THE filter shall be composed of cells for an output of all the water that the existing pipes of the Municipality can carry without absorbing more than 100 feet of head. Each cell would be made of the best soft cast-iron with patent quick-closing cover, provided with two eye-bolts, the whole thoroughly galvanized inside and out, and tested to a pressure of 100lbs. per square inch. It would have connections for unfiltered inlet and filtered outlet on opposite sides controlled by cocks. Each outlet for filtered water would be provided with a patent cut-out valve to automatically shut off the cell in the event of the omission or breakage of a filter tube, and with a connection for immediately testing the condition of the tubes. The cell itself would be provided with a connection for steam or hot water sterilizing. The drain for rinsing, &c., would be placed at the bottom of the cell, and delivered into a gutter to be formed in the floor.

The cells would be arranged in three parallel rows with a gangway between, and mounted on a wrought-iron frame.

A galvanized wrought-iron main would be provided at one end with branches to the cells for the supply of unfiltered water, and would be fitted with pressure regulator; and the filtered water would be collected into cast-iron branches, delivering into a cast-iron main with flanges.

An overhead travelling hoist to move on rails would be provided, carrying balance lifting tackle for the purpose of conveniently lifting the covers by their eye-bolts when required for cleaning or otherwise.

A portable air pump mounted on wheels would be supplied for testing the condition of each cell in the usual manner, and a small portable steam generator on wheels or fixed boiler would be provided for the purpose of sterilizing the filter tubes either by the direct action of steam or by boiling the water in the cells by the injection of steam. Each cell is capable of being cut out for any purpose without in any way interfering with the operation of the whole battery. The quick-closing cover is an arrangement by which a perfect joint is made with a slight turn of the cover; and by its use, together with that of the traveller, it will be found that the installation can be thoroughly kept in order by one man.

The floor of the building should preferably be asphalted or brick over, with an inclination between the cells for the purpose of draining into the gutter. The water drained from the filters can also be used, when required, for swabbing the floor.

We enclose a rough sketch showing the general arrangement in end view and plan.

RICHARD TOWNSEND GREER,
Chairman, Darjeeling Municipality.

The 17th September 1895.

HEATLY AND GRESHAM, Limited,

By SAMUEL THOMAS GRESHAM,
Duly constituted Attorney.

The 17th September 1895.

D. SUTHERLAND,
Municipal Commissioner.

The 17th September 1895.

M. POWER, Captain,
Vice-Chairman.

The 4th January 1896.

STAMP, Rs. 5.

(Ten shillings.)

To all to whom these presents shall come Heatly and Gresham, Limited, a Company having its registered office at No. 33 Brazenose Street in Manchester in England (hereinafter referred to as the said Company) send greeting.

Whereas the said Company was incorporated in the year one thousand eight hundred and ninety-two under the Companies Acts 1862 to 1890 with a nominal capital of ten thousand divided into two hundred shares of fifty pounds each and whereas fifty-two of the said shares have been issued and the sum of ten pounds per share stands credited in the books of the said Company as having been paid up thereon. And whereas the objects of the said Company comprise the transaction of business in countries not situate in the United Kingdom of Great Britain and Ireland and by a resolution of the Board of Directors of the said Company dated the ninth day of November one thousand eight hundred and ninety-three it was resolved—That the Company (meaning the said Company) forthwith commence a branch of its business in India. That Harry Heatly a Managing Director of the Company and Samuel Thomas Gresham both now of Calcutta be and are hereby appointed jointly and severally to manage such branch business of the Company. That the power of attorney now produced (meaning these presents) empowering the said Harry Heatly and Samuel Thomas Gresham to so act in the affairs of the Company in India be sealed with the seal of the Company signed in its name by Fred. Scott its Secretary and be countersigned by James Gresham and Harry Edward Gresham two Directors of the said Company and the said Fred. Scott. And whereas the said Company is desirous of appointing the said Harry Heatly and Samuel Thomas Gresham as its true and lawful attorneys and attorney for the purposes hereinafter mentioned: Now therefore know ye that the said Company doth hereby nominate constitute and appoint the said Harry Heatly and Samuel Thomas Gresham both now of Calcutta and the survivor of them jointly and severally its true and lawful attorneys and attorney for the said Company and in its name to open a branch of the said Company's business in Calcutta or elsewhere in India and to conduct and carry on the business of the said Company also to take on lease or hire or otherwise acquire or procure the use or enjoyment of any property or effects movable or immovable for such consideration and upon and subject to such terms and conditions as the said attorneys or attorney shall think fit and to draw on any banks individuals or firms for any sum or sums of money that is or may be payable to the said Company and the same or any other moneys to deposit in any bank and again at their or his pleasure to draw from time to time and to draw accept endorse discount or negotiate any foreign or inland bills-of-exchange bills-of-lading drafts cheques orders and certificates hundries promissory notes or other negotiable instruments or securities whatsoever and as the act or deed of the said Company to make sign seal and deliver in due form of law any agreement contract leases and counterparts thereof bill-of-lading bond of indemnity lease mortgage or other deed or document and also to compound and compromise any debt claim or suit and to accept any sum of money dividend or other satisfaction which the said attorneys or attorney may think proper in discharge of the same. And also to submit to arbitration any dispute in which the said Company may be concerned and also to pledge hypothecate sell endorse negotiate and transfer or cause to be transferred and to cancel or deliver up to be cancelled (upon receiving the consideration therefor) any stocks funds or securities of the Government of India or any other stock shares or scrip in any joint-stock or other Company Corporation Society or Association whether with or without limited liability carrying on business in Calcutta or elsewhere in the East Indies and to receive the interest or dividends accrued or to accrue due on the bonuses or other payments declared in respect thereof and for the said Company to appear for and represent the said Company in all Courts Civil Revenue or Criminal and to bring prosecute intervene in or defend any suit action or other proceedings and to sign any necessary retainers or proceedings thereon and to present for registration any deed document or writing whatsoever which according to the provision of the law for the time being in force with reference to the registration of assurances may require registration or which the said attorneys or either of them may deem it desirable to register and to sign any endorsement on such documents for the purposes aforesaid and to appoint a substitute or substitutes for any of the purposes contemplated by this power and generally to act in the management and superintendence of the affairs and concerns of the said Company in India without any reservation whatsoever. In witness whereof the said Company has caused its seal to be affixed hereto and these presents to be signed in its name by Fred. Scott its Secretary this ninth day of November one thousand eight hundred and ninety-three.

HEATLY, GRESHAM, Limited.

The common seal of Heatly and Gresham, Limited, was hereunto affixed in the presence of—

James Gresham	...	...	} Directors.
H. E. Gresham	...	...	
Fred. Scott	...	...	

Seal.

I, George Herbert Charlesworth, of the City of Manchester, in England, Notary Public by Royal Authority, duly admitted and sworn, do attest that the common seal of Heatly and Gresham, Limited (whose registered office is situate at number 33, Brazenose Street, Manchester aforesaid), was this day at Manchester aforesaid duly affixed to the above-written power-of-attorney, and the signature "Heatly and Gresham, Limited," appearing thereon was at the same time signed by (1) Fred. Scott, the Secretary, the person appointed for this purpose by

the Board of Directors of the said Company in my presence, and in the presence of James Gresham and H. E. Gresham, two of the Directors of the said Company, and the said (2) Fred. Scott, the Secretary of the said Company, all of whom countersigned the same in my presence. In testimony whereof I have hereunto subscribed my hand and affixed my notarial seal of office at Manchester aforesaid, this ninth day of November one thousand eight hundred and ninety-three.

In testimonium visitand.

GEORGE H. CHARLESWORTH,
Notary Public, Manchester.

Stamp
(One shilling.)

Seal.

STAMP PAPER of Rs. 310.

THIS AGREEMENT made the seventeenth day of September 1895 BETWEEN Heatly and Gresham, Limited, carrying on business under the style of Heatly and Gresham, "Limited," described as Engineers of Manchester Office, 33 Brazenose Street, London, and 7 Hastings Street, Calcutta (hereinafter called the Contractors), of the one part and R. T. Greer, c.s., Chairman of the Darjeeling Municipality and David Sutherland one of the Municipal Commissioners of the said Darjeeling Municipality (hereinafter called the Municipality) of the other part.

WHEREAS the Contractors have represented to the Municipality that Messrs. Defries and Sons, Limited, London, are the sole Licensees and manufacturers for the British Empire of a Filter called "The Pasteur-Chamberland Filter" of which the proprietors are the Chamberland and Pasteur Company of Paris, and that the Contractors are the sole agents for India, Burma and Ceylon for the said Messrs. Defries and Sons, Limited, and have obtained Letters Patent dated the 28th day of August 1884 and numbered 136 for the sole use benefit and advantage of the said invention or for such part or parts thereof as they shall think fit in India and for the term or terms for which such letter patents are usually granted. AND WHEREAS at the Ordinary Meeting of the Municipal Commissioners of Darjeeling held at the Municipal Office on Friday the 17th day of May 1895, the Contractors through their Agent Henry Heatly offered to supply the Municipality with the said Filter and to fix in position and put up the same complete and ready for use according to the plans and specifications relating to the same hereto annexed, and to the provisions of this Agreement hereinafter more particularly described to work the same free of charge for three years and to filter all the water that can be carried by the present main water pipes of the Municipality from Sinchal to Darjeeling with spare tubes or candles of the description in all respects of the candle known as Indian patent No. 136, dated 28th August 1894 to last for three years the Municipality only providing a shelter shed for the Filter Machine and paying Rs. 31,000 (thirty-one thousand only) when the machine is at work and is doing its work efficiently and a further sum of Rs. 31,000 (thirty-one thousand only) at the expiration of the said three years provided that the said Filter has worked well and given complete satisfaction during the period aforesaid delivering water free from all and every impurity and specially micro-organisms harmless and harmful of all and every description.

AND WHEREAS at the said meeting the Municipality resolved to accept the offer of the Contractors and the conditions relating to the same hereinafter more particularly mentioned and to draw up an Agreement embodying the same, which resolution was ratified and confirmed at the special meeting of the Municipal Commissioners of Darjeeling held at the Municipal Office on Tuesday the 4th day of June 1895.

NOW THESE PRESENTS WITNESS that in consideration of the premises the Contractors hereby for themselves jointly and severally covenant with the Municipality and the Municipality hereby covenant with the Contractors as follows:—

1. The Municipality shall put up a shelter shed for the said Filter by the 31st day of December 1895.
2. The Contractors shall bring up at their own cost all the materials appertaining to the said Filter in every respect.
3. The Contractors shall put up and fix in position in a workmanlike manner the said Filter complete and shall make it work efficiently (that is to say):—

That the said Filter shall be constructed according to the annexed plan and specification at a total cost of Rs. 62,000 at the expense in all things of the Contractors and the said Filter shall pass all the water which the existing pipes of the Municipality can carry without absorbing more than 100 feet of head such loss of head being indicated measured and determined by pressure gauges to be supplied by the Contractors at their own expense and to be passed by the Engineer of the Municipality as correct and sufficient and to be fixed by the Contractors at their own expense to the pipes above and below the Filter and shall deliver the water free from all and every impurity and especially micro-organisms harmless and harmful of all and every description.

4. As soon as the Filter is at work and according to the opinion of the Engineer of the Municipality is doing its work efficiently the Municipality shall pay to the Contractors the sum of Rs. 31,000.

5. The Contractors hereby undertake all responsibility for the position of the Filter and for the water pressure and guarantee that when placed at the site as indicated in the map hereto annexed the Filter shall do the work solely by the ordinary pressure of the water in the pipes.

6. The Contractors shall thereafter work the said Filter efficiently as aforesaid at their own cost for 3 (three) years commencing from the date on which the said first-mentioned sum of Rs. 31,000 shall be paid to the Contractors by the Municipality and shall hand over the said Filter and its accompaniments and fittings at the end of the said three years to the Municipality complete in perfect condition and in good working order with a sufficient supply of spare tubes or candles to continue to work in the same manner for a further period of three years.

7. At the end of the aforesaid three years when the said Filter shall be ready to be handed over to the Municipality as before mentioned the efficient working of the said Filter and its state and condition and all questions as to the proper fulfilment of the contract shall be determined by a committee of three persons one to be nominated by the Municipal Commissioners of Darjeeling a second by the Contractors, and the third being an independent member selected by the two nominees. The decision of the majority shall prevail and be final when all three members are appointed.

If either party shall neglect or fail to appoint its member of the Committee within 30 days after the expiration of the said three years or if the two members appointed by the parties hereto shall neglect or fail within the next succeeding 30 days after the expiration of the aforesaid 30 days to appoint the third member then all questions which would have been raised or have come before the said Committee for decision shall be decided by such officer of the Government of Bengal as the Lieutenant-Governor may nominate, and the decision of such officer shall in that case be final and binding absolutely on both parties.

8. If the said Committee shall certify to the efficient working of the said Filter and to its period and complete state and condition in all respects as aforesaid then the Municipality shall pay to the Contractors the said further sum of Rs. 31,000 upon having the said Filter and all its accompaniments and fittings and spare candles as indicated in clause 6 delivered over in perfect condition and working order to the Municipality.

9. If, however, the said Committee or officer appointed by Government, as noticed in clause 7, declare the said Filter to be inefficient or defective, then the Contractors shall refund to the Municipality the Rs. 31,000 or any other sum paid to them by the Municipality as above mentioned and shall also remove the said Filter and all its accompaniments and fittings at their own cost and shall give up possession of the land on which the same may have been placed and also of the shelter shed and all other property of the Municipality. But until payment of the further sum of Rs. 31,000 or any other such sum as aforesaid, the Municipality shall have a lien upon all the property of the Contractors who shall not be at liberty to remove the same or any part thereof until all monies shall have been paid.

10. In the event of the said Filter after the tests mentioned above being handed over to the Municipality and the balance of Rs. 31,000 being paid by them to the Contractors, then the Contractors hereby further undertake to supply at any time spare tubes or candles to be used in the said Filter as may be necessary at the rate of Rs. 200 (two hundred only) per 100 (one hundred) tubes or candles.

11. It shall be lawful for the Municipality at all times without any interference to depute a representative to see and test the working of the said Filter and all its accompaniments and fittings and of the said gauges and the Contractors shall at all times give such representative free and unrestricted access to the premises and to all thereon.

In witness whereof the said contracting parties have hereunto set and subscribed their hands and seals on the dates mentioned against each of them.

Signed, sealed, and delivered by the said Heatly and Gresham, Limited, in the presence of—
 1. M. N. Banerjee, } Witnesses.
 2. C. H. Malconress, }

Signed, sealed, and delivered by the said Richard Townsend Greer and David Sutherland in the presence of—

1. M. N. Banerjee, } Witnesses.
 2. C. H. Malconress, }

RICHARD TOWNSEND GREER,
 Chairman, Darjeeling Municipality.
 The 7th September 1895.

D. SUTHERLAND,
 Municipal Commissioner.

ADMISSIBLE under Rule 41; correctly stamped under the Indian Stamp Act, Schedule I,
 Article 13. Fees paid, Rs. 63.

P. N. MUKERJEE,
 Sub-Registrar of Darjeeling.

The 17th September 1895.

PRESENT for registration at 1 P.M. on the 17th day of September 1895, at the Darjeeling Sub-Registry Office, by D. Sutherland, Esq., a Municipal Commissioner of Darjeeling;

D. SUTHERLAND,
 Municipal Commissioner.

P. N. MUKERJEE,
 Sub-Registrar of Darjeeling.

The 17th September 1895.

REGISTER III, Book I, Volume IV, pages 172 to 180, being No. 96 for 1895.

P. N. MUKERJEE,
 Sub-Registrar of Darjeeling.

The 16th October 1895.

EXECUTION is admitted by Mr. Richard Townsend Greer, c.s., Chairman, Darjeeling Municipality, and by Mr. David Sutherland, a Municipal Commissioner of Darjeeling, both personally known to me.

D. SUTHERLAND,
 Municipal Commissioner.

P. N. MUKERJEE,
 Sub-Registrar of Darjeeling.

RICHARD THOMAS GREER.

The 17th September 1895.

EXECUTION admitted by Mr. Samuel Thomas Gresham, constituted Attorney for Messrs. Heatly and Gresham, Limited, under a general power-of-attorney executed before George H. Charlesworth, Notary Public, Manchester, England, on the 9th day of November 1893.

SAMUEL THOMAS GRESHAM,

P. N. MUKERJEE,

Duly constituted Attorney for Heatly and Gresham, Ltd. Sub-Registrar of Darjeeling.
 The 17th September 1895.

Municipal DEPARTMENT.
LOCAL & MUNICIPAL DEPT. BRANCH.

4 - JAN. 1899
ASSIST. SECY. TO GOVT.
EDL & LEG. DEPT.

CURRENT No. 43 m No. 4284 m

From

E. C. Baker Esq. Jcs
Off. Secretary to the Government of Bengal,

To

*The Secretary to the Government of
Madras Local & Municipal Dept.*

Dated Calcutta, the 30th December 1898.

Sir,

In compliance with the request
contained in your letter, No. 1706 m-mis; dated
the 5th October, 1898, I am directed to
forward the enclosed copies of papers
which contain the required information
in regard to the Pasteur filter installation
at Darjeeling.

* Letter No. 1429 of 16 Nov/98
from the Vice-Chairman of the
Darjeeling Municipality to the
Off. Commr. of Darjeeling District
Mems from the Commr. of the
Rajshahi Div. No. 430 m of
22 Jan/96 & annexures

I have the honor to be,
Sir,
Your Most Obedt Servt.,

B. J. J. J.
for Off. Secy. to the Govt. of
Bengal.

When given for copying
When copied
When examined
When signed

189

READ AGAIN G.O., No. , DATED
189

CURRENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT A A A A A A A

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH
IN ORIGINAL.

N.B.—

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