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3. Initials of Reference
M.R.O. 1-89,000-16-10-89

MADRAS RECORD OFFICE.

Government of Madras.

Public Utility
DEPARTMENT.

G.O. No. 1287	Press Mis.
Dated 19-8-1936	

Not to be folded or roughly handled

12

Proceedings of the Madras Government, Public Department,
19th August 1871.

Read the following papers:—

No. 110. From the Officiating Assistant Secretary to the Government of India, to the Secretary to Government, Military Department, Fort St. George, dated Fort William, 21st July 1871, No. 631.

I am directed to forward, for the information of the Right Honourable the Governor in Council, a copy of the documents noted in the margin, and to state that five sets of Parke's chests and three of Oertling's balances mentioned therein can be spared if required.

From Inspector-General of Hospitals, Indian Medical Service, No. 174, dated 19th May 1871, and enclosure.
To Inspector-General of Hospitals, Her Majesty's British Forces, No. 60, dated 2nd June 1871.
From Inspector-General of Hospitals, Her Majesty's British Forces, No. 36, dated 8th June 1871.
From Inspector-General of Hospitals, Indian Medical Service, No. 1478-A., dated 4th July 1871.

From the Inspector-General of Hospitals, Indian Medical Department, to the Secretary to the Government of India, Military Department, dated Fort William, 19th May 1871, No. 174.

In reply to your docket, No. 646, of the 15th March last, giving cover to correspondence regarding the analysis of the potable waters of the Bombay Presidency, and inquiring whether any apparatus could be spared from Bengal in the event of their being wanted, I have the honour to state that thirty-six cases of Parke's analytical apparatus were received in December last, and that these instruments are now in the Presidency Medical Depot. They were indented for at the request of the Inspector-General of Hospitals, Her Majesty's British Forces; and the Principal Medical Store-keeper reports that he has advised Dr. Muir of their arrival, and has solicited instructions as to their disposal.

2. From the copies of the communications noted on the margin it will be observed that the Chemical Examiner to Government does not consider the boxes suited for the use of water analysts on tour, but that they might be turned to account in special or urgent cases.

3. Allowing due weight to the opinion of the Chemical Examiner, I am inclined to think that, in the absence of the specially-constructed and elaborately-fitted chests which Dr. Macnamara considers essential to a proper analysis, some of Parke's boxes might be adapted to meet the requirements of the Bombay Presidency in this respect, provided Dr. Muir can spare them. In a further communication, * No. 89, of the 5th instant, Dr. Macnamara states that six balances, by Oertling, can be spared from his department, and these instruments he declares to be admirably suited for the use of water analysts.

* Copy annexed.

4. Although not directly connected with the point referred to this department, Dr. Macnamara enters upon the question of instructions for the guidance of water analysts raised by the Inspector-General of the Bombay Medical Department, and communicates† information which will doubtless be appreciated by the authorities at Bombay.

5. The original enclosures of your memorandum are returned.

MEMORANDUM from the Officiating Principal Medical Store-keeper to Government, to the Secretary to the Inspector-General of Hospitals, Indian Medical Service, dated Calcutta, 19th April 1871, No. 156.

Returns correspondence as requested in his memorandum, No. 24-A., of the 3rd April 1871, together with a copy of the Chemical Examiner's report regarding Dr. Parke's analytical boxes received from England.

*Proceedings of the Madras Government, Public Department,
19th August 1871.*

From F. N. MACNAMARA, Esq., M.D., Chemical Examiner to Government, to the Principal Medical Store-keeper to Government, dated Calcutta, 18th April 1871, No. 62.

With reference to your memorandum, No. 26, of the 5th instant, I have to state that I have looked through the apparatus and chemicals in the box of Parke's analytical apparatus sent therewith, and that neither the apparatus nor the chemicals contained in the box are in sufficient quantity, or quite of such description as to allow of the boxes being issued for the use of our water analysts on their tour.

2. The box will be returned into store to-morrow.

MEMORANDUM from the Principal Medical Store-keeper to Government, to the Secretary to Inspector-General of Hospitals, Indian Medical Service, dated 12th May 1871, No. 399.

Copy forwarded to the Secretary, Inspector-General of Hospitals, with reference to the last paragraph of this office memorandum, No. 242, dated 29th ultimo.

From F. N. MACNAMARA, Esq., M.D., Chemical Examiner to Government, to the Principal Medical Store-keeper to Government, dated Calcutta, 4th May 1871, No. 88.

With reference to your memorandum, No. 249, I have to state my opinion that three or four of the chemical cases might be with advantage kept in store for use under such circumstances as a sudden appeal for the deputation of a Medical Officer to analyze the waters of a station, or for use in the case of a scientific expedition having a Chemist attached, or for use in the case of such a special inquiry as that at present being made by the Cattle Plague Commission, when a partial analysis only, and that of but a few water-sources, is needed.

From F. N. MACNAMARA, Esq., M.D., Chemical Examiner to Government, to the Secretary, Inspector-General of Hospitals, Indian Medical Department, dated Calcutta, 5th May 1871, No. 89.

In continuation of my letter, No. 56, dated the 11th April last, I have to state that, should the Government of Bombay or Madras be getting chemical chests from Home for the use of water analysts in those Presidencies, six balances, could be spared from this department. The balances in question are by Oertling, and are admirable balances for the use of water analysts; they are supplied with a set of English weights. Each balance is packed in a box of the following dimensions—fifteen inches long, eight inches across, five inches in height,—and would need a compartment of that size or a little larger in the chemical chest.

From F. N. MACNAMARA, Esq., M.D., Chemical Examiner to Government, to the Secretary to the Inspector-General of Hospitals, Indian Medical Department, dated Calcutta, 11th April 1871, No. 56.

In a correspondence which has been forwarded to me by the Principal Medical Store-keeper, I find a letter from the Inspector-General of Hospitals at Bombay (dated the 20th October 1870), to the Secretary to Government, stating that in that Presidency Medical Officers are available for employment as water analysts, but that the subject must be kept in abeyance till instructions have been received as to the method of analysis to be employed, and till apparatus for making the analysis is forthcoming.

With reference to instructions as to the method of water analysis to be employed, it may be well to state, for the information of the Inspector-General of Hospitals at Bombay, that while lately at Home on furlough I was engaged, under the direction of the Home Government, in conjunction with Dr. Angus Smith and Dr. Parkes, in drawing up a scheme of water analysis for the use of Medical Officers on tour, and I have reason to believe that this scheme will shortly be published, and, as suggested by the Army Sanitary Commission, "will be issued authoritatively by Government for the guidance of all officers engaged in water analysis in the East."

*Proceedings of the Madras Government, Public Department,
19th August 1871.*

As regards apparatus, it must be obtained from England, in cases specially fitted for the use of the water analysts; twelve such sets of apparatus arrived from England in April 1867 for the use in this Presidency. They were fitted up by Messrs. Griffin and Co., of London, and, with the exception of the balances, the apparatus was well chosen; but the balances were so inferior that it became necessary to get others from England to supply their place. The boxes themselves were very badly put together, and made of such unseasoned wood, joined in many places with glue, that they have become almost useless, and I shall consequently be obliged to indent shortly for four new sets of apparatus.

Enclosed is a list of the apparatus which will be required for the water analysts who may be employed in working the forthcoming scheme. The reagent bottles included in the list should each have its separate compartment in the box, and should be sent out empty to be filled with chemicals and with standard solutions by the Chemical Examiner at each Presidency. Such is the course which has been followed here, and the water analysts have been in the habit of obtaining any fresh supplies of chemicals which they may need from this laboratory, or on my requisition from the Principal Medical Store-keeper, in whose office, moreover, supplies of chemicals for the analysts, whether from this laboratory or from the Store Department, have been packed and despatched.

In addition to the two boxes containing the chemicals and apparatus, the analysts have been provided from the Medical Store Department with a rough box containing distilled water, spirits of wine, and sulphuric acid.

List of Apparatus needed for Water Analysts.

List of chemicals which follow:—

Aluminum sheet	...	oz.	2
Beakers of stout glass, but capable of being used over a lamp	...	"	6
Balance, small, by Oertling, such as those lately sent out to the Medical College	...	"	1
Set of weights on metric system, gramme weights of brass, the smaller weights (in duplicate) of platinum or aluminum	...	...	1
Burettes—Binks to deliver 50 cubic centimeters	...	...	1
Do. — " 15 "	...	...	2
Wooden feet for the above burettes	...	...	3
Burettes—Mohis to deliver 50 cubic centimeters	...	...	1
Do. — " 30 "	...	...	2
Pinch cocks and jets for use with the above	...	...	6
Basins, porcelain, thin, of 1 pint capacity	...	...	6
" " " of 4 oz. "	...	...	4
Basins, platinum, 150 c. c. capacity, with covers	...	...	2
Empty bottles, stoppered.	...	...	
12 twelve ounce.	} Each having a separate compartment.		
8 eight "			
14 four "			
4 six "			
4 two "			
Bath, steam, Wanklyn and Chapman's, with apertures for two funnels, and also stone-ware funnels for above, the bath to be as small as consistent with practical use	...	...	1
Washing bottle	...	...	1
Books, Noads' Chemistry	...	...	1
Wanklyn and Chapman's Water Analysis	...	...	1
Burette stands with two arms	...	...	2
Cylinders measuring capacity 100 cubic centimeters, graduated at each 5 cubic centimeters	...	...	1
Crucibles, porcelain, with covers	...	...	2
India rubber corks	...	dozen	1

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19th August 1871.*

Good corks of sizes	dozen	2
Cork covers	sets	1
Thistle funnels		2
Absorption tube graduated to hold about 20 cubic centimeters		1
Crucible platinum and cover		1
Funnels, 1 pint capacity		2
Do. 4 ounce do.		4
Desiccating apparatus for use with lime or sulphuric acid		1
Clamp, Bunsen's, with universal joint		1
Cylinders, glass, for neesbusing, each 160 c. c. capacity, graduated to 50, 100, 150, c. c.		3
Cylinders of colourless glass, two feet long, to observe colour of water		2
Files, triangular		2
„ rat-tailed		2
Filtering paper	quires	2
Filters, ready cut, of sizes, in the tin box		2
Flasks, stout, of glass to deliver 500 c. c.		2
„ „ „ 250 „		2
Flasks, unmarked, round-bottomed, to hold about 750 c. c. for Wanklyn and Chapman's process		6
Do. of about 500 c. c. capacity		4
Forceps, dissecting		1
Gauze iron (each six inches square, one piece)		4
Lamp, Argand, spirit lamp, and wicks		1
„ Pewter, spirit lamps		4
Small microscope without stage, movement power, quarter inch, half inch, and one inch		1
Glass slides, and thin glass for the above		1
Measuring glass	2 oz.	1
„ „	minim	1
Pipettes, plain		2
„ with turned up point to throw solutions into a tube standing over mercury.		2
„ to deliver 10 cubic centimeters graduated to deliver millimeters		2
„ to deliver 50 cubic centimeters graduated		1
Precipitating glasses, six ounces		4
„ „ four „		2
Spatulas, sheet		2
Scissors, pair of		1
Stainers, glass		4
Syptrous, „		2
Test tube stand for six tubes		1
Tripod, iron, with legs, which unscrew to form sand-bath		1
Iron plate for sand-bath		1
Tongs, crucible, pair of		1
Thermometer (centigrade chemical in wooden case)		1
Vulcanized tubing, small size	yards	3
Worm tubs of block tin may fit (for packing) one within the other each with a central aperture in bottom (tabular) fitted with rubber corks through which worm tube will pass, largest tube to be "10 inches high" 7 diameter		2
Worm tubes of tin for the above, the tube will pass centrally through the tube-bore of tube 4 inches		2
Tubing glass, small pieces, (each 2½ feet long)		6
Trough, small, mercurial of stone-ware		1

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19th August 1871.*

Test tubes, large	dozen	1
„ middling size	„	1
„ small	„	1
„ cleaners	„	2
Triangles, copper, guarded by tobacco-piping		4
„ „ large, unguarded		2
Test paper, box of		1

The boxes should be of teak or mahogany, well secured with screws and iron, or brass corners and clamps. The partitions between the compartments should be secured by dove-tailing and screws, glue must not be used, and the apparatus should be contained in two boxes each not larger than as follows—length, thirty inches; depth, thirteen inches; back to front, nineteen inches.

17th April 1871.

(Signed) F. N. MACNAMARA.

From the Officiating Assistant Secretary to the Government of India, Military Department, to the Inspector-General of Hospitals, Her Majesty's British Forces, dated Fort William, 2nd June 1871, No. 60.

It having been ascertained that thirty-six cases of Parke's analytical apparatus, indented for from England at your request and are now in the Presidency Medical Department, I am directed to inquire if any, and, if so, how many, sets could be spared for use in the Bombay Presidency should they be required.

From W. M. MUIR, Esq., M.D., C.B., Inspector-General of Hospitals, Her Majesty's British Forces, to the Secretary to the Government of India, Military Department, Calcutta, dated Simla, 8th June 1871, No. 36.

In reply to your letter, No. 60, of the 2nd current, I have the honour to state that, after due consultation with Administrative Medical Officers of Circles as to how many cases of "Parke's analytical apparatus" were required for this Command, and as to how these could be most advantageously distributed, I have fixed upon twenty-six as the number required, and I have notified to the Principal Medical Store-keeper at Calcutta of the assignment proposed by me.

2. The ten remaining cases might, I conceive, with advantage be divided between the Madras and Bombay Presidencies in equal proportions.

MEMORANDUM from the Inspector-General of Hospitals, Indian Medical Department, to the Secretary to the Government of India, Military Department, dated Fort William, 4th July 1871, No. 1478-A.

Submitted for information, with reference to the third paragraph of this office letter, No. 174, of the 19th May last. It will be observed that Dr. Muir can spare ten cases of apparatus.

From W. M. MUIR, Esq., M.D., C.B., Inspector-General of Hospitals, Her Majesty's British Forces, to the Principal Medical Store-keeper, Calcutta, dated Simla, 10th June 1871, No. 479-M.-O.

In continuation of previous correspondence regarding the thirty-six cases of "Parke's analytical apparatus," I have the honour to request that you will be good enough to forward four of these cases to the Deputy Inspectors-General of Hospitals, British Forces, at Meerut and Umballa, respectively, and three to each of the other Administrative Medical Officers of Circles, viz., Presidency, Allahabad, Lucknow, Gwalior, Lahore, and Peshawur.

*Proceedings of the Madras Government, Public Department,
19th August 1871.*

2. It is desirable the arrangements for the ultimate distribution of these cases should be made by Administrative Medical Officers of Circles, who will be instructed accordingly.

3. With regard to the remaining ten cases, I think these might with advantage be divided between the Madras and Bombay Presidencies in equal proportions.

Transferred to the Public Department.

FORT ST. GEORGE,
31st July 1871.

(Signed) A. C. SILVER, Colonel,
Offg. Secy. to Govt., M.D.

Referred to the Inspector-General, Indian Medical Department, for report whether the five sets of Parke's chests and three of Oertling's balances should be obtained from Bengal.

OOTACAMUND,
5th August 1871.

(Signed) R. S. ELLIS,
Chief Secretary.

No. 111. From the Acting Inspector-General, Indian Medical Department, to the Chief Secretary to Government, Fort St. George, dated Fort St. George, 9th August 1871, No. 266.

In returning the communications referred under your docket memorandum of the 5th instant, I have the honour to recommend that the five cases of Parke's chemical apparatus may be obtained from Calcutta, as such sets are at timesf indented for and would prove very useful.

2. No balances will be required, as there is now a surplus of chemical balances in the Medical Store Depôt.

No. 112. To the Secretary to the Government of India, Military Department, dated Ootacamund, 19th August 1871, No. 1287.

Referring to your letter, dated the 21st July last, No. 631, I am directed to request that this Government may be furnished with the five sets of Parke's chests therein referred to.

2. Oertling's balances are not required.

(Signed) R. S. ELLIS,
Chief Secretary.

1871.

MILITARY DEPARTMENT.

From

The Chief Secretary to Government,
Fort St. George,

To

The Secretary to the Govt. of India,
Military Department.

Dated 19th August 1871.

Recd.

No. 1287.

Enclosure.

AUGUST.

Nos. 110-112.

Requesting that this Government be furnished
with the five sets of Parke's Analytical Apparatus
said to be available at Calcutta.

No. 266

OFFICE OF INSPECTOR GENERAL, INDIAN MEDICAL DEPARTMENT,

Fort Saint George, 9th August 1871.

From

The Acting Inspector General, Indian Medical Department,
Fort Saint George,

To

The Chief Secretary to Government,
Public Department.

SIR,

In returning the communications
referred under your dotted memo of the 5th
instant, I have the honor to recommend
that the 5 Cases of Parke's Chemical
Apparatus may be obtained from
Calcutta, as such sets are at times
indented for and would prove very
useful.

2 No balances will be required, as
there is now a surplus of Chemical balances
in the Medical Store Depot.

I have the honor to be
Sir

Your most Obedt Servant

(11111) H. A. P. M. M.

Acting Inspector General
Indian Medical Department.

2426mk

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*It is recommended that
5 cases of Tents
Chemical Apparatus
may be obtained
from Calcutta*

No 1748

No. 286.

*Dated
Aug 5. 1871
Sd/-*

1287

Inspector General,
Indian Medical Department,
Fort Saint George,

219

*Aug 13/71
Public 1871. 7/11/71*

No. 631.

To

THE SECRETARY TO GOVERNMENT, FORT ST. GEORGE,
MILITARY DEPARTMENT.

Military Department.

SIR,

I AM directed to forward, for the information of the Right Hon'ble the Governor in Council, a copy of the documents noted in the margin, and to state that five sets of Parke's chests and three of Oertling's balances mentioned therein can be spared if required.

I am,

Sir,

Your most obedient servant,

[Signature]

Major, R. A.,

Offg. Asst. Secy. to the Govt. of India.

FORT WILLIAM;
The 21st July 1871.

- No. 632. To the Secy. to Govt., Bombay, Military Department.
- No. 633. To the Insp. Genl. of Hospitals, Indian Medical Service.
- No. 634. To the Insp. Genl. of Hospitals, Her Majesty's British Forces.
- No. 635. To the Home Department.

Exd. H. de Silva.

From J. C. BROWN, Esq., C. B., Inspector General of Hospitals, Indian Medical Department, to the Secretary to the Government of India, Military Department,—(No. 174, dated Fort William, the 19th May 1871.)

In reply to your docket No. 646 of the 15th March last, giving cover to correspondence regarding the analysis of the potable waters of the Bombay Presidency, and enquiring whether any apparatus could be spared from Bengal in the event of their being wanted, I have the honor to state that 36 cases of Parke's analytical apparatus were received in December last, and that these instruments are now in the Presidency Medical Depot. They were indented for at the request of the Inspector General of Hospitals, Her Majesty's British Forces; and the Principal Medical Store Keeper reports that he has advised Dr. Muir of their arrival, and has solicited instructions as to their disposal.

2. From the copies of the communications noted on the margin, it will be observed that the Chemical Examiner to Government does not consider the boxes suited for the use of water analysts on tour, but that they might be turned to account in special or urgent cases.

3. Allowing due weight to the opinion of the Chemical Examiner, I am inclined to think that, in the absence of the specially constructed and elaborately fitted chests which Dr. Macnamara considers essential to a proper analysis, some of Parke's boxes might be adapted to meet the requirements of the Bombay Presidency in this respect, provided Dr. Muir can spare them. In a further communication,* No. 88 of the 5th instant, Dr. Macnamara states that 6 balances, by Oertling, can be spared from his department, and these instruments he declares to be admirably suited for the use of water analysts.

4. Although not directly connected with the point referred to this department, Dr. Macnamara enters upon the question of instructions for the guidance of water analysts raised by the Inspector General of the Bombay Medical Department, and communicates† information which will doubtless be appreciated by the authorities at Bombay.

5. The original enclosures of your memorandum are returned.

Memorandum from Surgeon-Major D. MACDONALD, M. D., Officiating Principal Medical Store-Keeper to Government, to the Secretary to Inspector General of Hospitals, Indian Medical Service,—(No. 156, dated Calcutta, the 19th April 1871.)

Returns correspondence as requested in his memorandum No. 24A, of the 3rd April 1871, together with a copy of the Chemical Examiner's report regarding Dr. Parke's analytical boxes received from England.

From F. N. MACNAMARA, Esq., M. D., Chemical Examiner to Government, to the Principal Medical Store-Keeper to Government,—(No. 62, dated Calcutta, Medical College, the 18th April 1871.)

With reference to your memorandum No. 26, of the 5th instant, I have to state, that I have looked through the apparatus and chemicals in the box of Parke's Analytical Apparatus sent therewith, and that neither the apparatus nor the chemicals contained in the box are in sufficient quantity, or quite of such description as to allow of the boxes being issued for the use of our water analysts on their tour.

The box will be returned into store to-morrow.

Recd of 24/5/71

Transferred to the
Public Department

Recd of 24/5/71

1. Mr. Brown
2. Mr. Brown

24th May 1871. D. Brown

24th May 1871. D. Brown

No. 1000-

24th May 1871. D. Brown

Recd of 24/5/71

Transferred to the
Public Department

Estimate of 5 August 1871.

Recd of 24/5/71

Transferred to the
Public Department

Recd of 24/5/71

From Surgeon-Major D. MacDONALD, M. D., Principal Medical Store-Keeper to Government, to the Secretary to Inspector General of Hospitals, Indian Medical Service,—(No. 399, dated Medical Store Department, the 12th May 1871.)

Copy forwarded to the Secretary Inspector General of Hospitals, with reference to the last para. of this office memorandum No. 242, dated 29th ultimo.

From F. N. MacNAMARA, Esq., M. D., Chemical Examiner to Government, to the Principal Medical Store-Keeper to Government,—(No. 88, dated Calcutta, Medical College, the 4th May 1871.)

With reference to your memorandum No. 249, I have to state my opinion, that three or four of the chemical cases might be with advantage kept in store for use, under such circumstances as a sudden appeal for the deputation of a Medical Officer to analyze the waters of a station, or for use in the case of a scientific expedition having a chemist attached, or for use in the case of such a special inquiry as that at present being made by the Cattle Plague Commission, when a partial analysis only, and that of but a few water sources, is needed.

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In continuance of my letter No. 56, dated the 11th April last, I have to state that, should the Government of Bombay or Madras be getting chemical chests from home for the use of water analysts in those presidencies, six balances could be spared from this department. The balances in question are by Oertling, and are admirable balances for the use of water analysts; they are supplied with a set of English weights. Each balance is packed in a box of the following dimensions, fifteen inches long, eight inches across, five inches in height, and would need a compartment of that size or a little larger in the chemical chest.

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necessary to get others from England to supply their place. The boxes themselves were very badly put together, and made of such unseasoned wood, joined in many places with glue, that they have become almost useless, and I shall consequently be obliged to indent shortly for four new sets of apparatus.

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List of apparatus needed for water analysts.

List of chemicals which follow:—

Aluminum sheet ...	...	oz.	2
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Set of weights on metric system, gramme weights of brass, the smaller weights (in duplicate) of platinum or aluminum	...		1
Burettes—Binks to deliver 50 cubic centimeters	...		1
Ditto to deliver 15 ditto	...		2
Wooden feet for the above burettes	...		3
Burettes Mohis to deliver 50 cubic centimeters	...		1
Ditto to deliver 30 ditto	...		2
Pinch cocks and jets for use with the above	...		6
Basins, porcelain, thin, of 1 pint capacity	...		6
Ditto ditto of 4 oz. capacity	...		4
Basins, platinum, 150 c. c. capacity with covers	...		2

Empty bottles, stoppered.

12 Twelve ounce	} each having a separate compartment.
8 Eight ounce	
14 Four ounce	
4 Six ounce	
4 Two ounce	

Bath steam Wanklyn and Chapman's with apertures for two funnels and also stone-ware funnels for above, the bath to be as small as consistent with practical use

Washing bottle	...	1
Books, Noads' Chemistry	...	1
Wanklyn and Chapman's Water Analysis	...	1
Burette stands with two arms	...	2
Cylinders measuring capacity 100 cubic centimeters, graduated at each 5 cubic centimeters	...	1
Crucibles porcelain with covers	...	2
India rubber corks	dozen	1
Good corks of sizes	"	2
Cork covers	sets	1
Thistle funnels	...	2
Absorption tube graduated to hold about 20 cubic centimeters	...	1
Crucible platinum and cover	...	1

196

No. 12874

The Secretary to Government
of I

Sir,

Referring to your
letter dated the 21st July
last, N^o 631, I am directed
to request that this form
may be furnished with
the five sets of Parker's
Chests therein referred to.

2. Overthing's balances are not required.

Cotacuman.
19 Aug^t 1871.

2^d Edition - 17

Aug 19
Dec 34 26 of 1110

L. Paul. 1660/71

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Handwritten text, possibly a date or reference number.

18th , Department

No.

To
The Secretary to the
Government of
Department

Dated 187 .

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1871
Military DEPARTMENT.

From
The Chief Secretary to Government,
Fort Saint George,

To
The Secretary to the Govt. of India,
Military Department.

Date: *August 19.* 1871.

Re: *Aug.*

No. *287.*
Enclosure.

Nos. 10 - 112

Requesting ^{that} ~~information~~ ^{that} this ~~be furnished~~ ^{be furnished} ~~with the 5 sets of the~~ ^{with the 5 sets of the} ~~Analytical Apparatus,~~ ^{Analytical Apparatus,} ~~said to be available~~ ^{said to be available} ~~at Calcutta.~~ ^{at Calcutta.}