M.R.O. 1—22,000—8-6-37.

(1) Number of pages.....

(2) Date of repair.....

(3) Initials of the Referencer .....

MADRAS RECORD OFFICE.

Government of Madras.

Public (Cons.) DEPARTMENT.

G.O. No. 2204-15 Press Mis.
132-15 132

Dated 9 10 1815.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 9th October 1872.

Read the following papers:—

No. 122. From the General Superintendent of Public Works Stores and Workshops.
(Here enter No. 545, dated 4th September 1872.)

No. 123. Proceedings of the Madras Government in the Public Department.
(Here enter No. 1,001, dated 29th August 1872.)

No. 124. Do. do. in the Military Department.
(Here enter No. 2,838, dated 6th September 1872.)

No. 125. From the Officiating Deputy Inspector-General in charge Ordnance Office.
(Here enter No. 185-G., dated 9th September 1872.)

No. 126. From the Director of Public Instruction.
(Here enter No. 2,030, dated 18th September 1872.)

No. 127. From the Superintendent of Revenue Survey.
(Here enter No. 1,875-54, dated 10th September 1872.)

No. 128. Proceedings of the Board of Revenue.
(Here enter No. 6,450, dated 23rd September 1872.)

No. 129. From the Government of India.
(Here enter No. 626-A. G., dated 24th September 1872.)

No. 130. From the Inspector-General of Hospitals, Indian Medical Department.
(Here enter No. 302-I., dated 17th September 1872.)

No. 131. ORDER THEREON, 9th October 1872, No. 2,364.

ACCOUNT, No. 13.

ORDERED that the following letter be sent to the Government of India.

(Here enter No. 2,365, dated 9th October 1872.)

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

Exd. E. C. Shunker.

In charge Ordnance Office.

PUBLIC WORKS DEPARTMENT,
OOTACAMUND, *9th October* 1872.

No. 132.

No. 2,365.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,

PUBLIC WORKS DEPARTMENT.

ACCOUNT, No. 14.

SIR,—With reference to your docket Nos. 626—44 A. G., dated 24th July 1872, I am directed to forward the accompanying statement showing the number of Thermometers that will be required from England during future years by the several departments under the Madras Government.

I have the honour to be,

Sir,

Your most obedient servant,

(Signed) G. W. WALKER, Colonel, R.E.,

Secretary to Government.

Exd. E. C. Shunker.

Public Works Store Department

Chefpauk 4th September 1872

No. 545

From

The General Superintendent

Public Works Stores Workshops

Chefpauk

To

The Secretary to Government

Public Works Department

Fort St George

Sir

With reference to G.O. dated 19th August 1872 No. 1969. I have the honor to state that no Thermometers have been indented for during the current year for use of this Department and from the Stock on hand there is hardly any likelihood of any of those instruments being required for at least three years hence.

It will be observed from the Statement appended to the G.O. above quoted that the demand for Thermometers for the use of the P.W.D. is very small.

I have the honor to be

Sir

Your most Obedt. Servant

(Sd) Mark

John Gaddard Lt Col RE

for General Supt PW Stores &c

In charge Ordnance Office.

No. 307. Read the following docket of the Government of India, Public Works Department, (Account—General,) dated Simla, 24th July 1872, Nos. 626—44 A.G:—

Copy of the following despatch of the Secretary of State, and its accompaniment, forwarded to the Local Governments and Administrations, and to the officers of the Railway Branch enumerated in the margin, with a request that the information called for by the Secretary of State in paragraph 2 of his despatch, in respect to the probable number of thermometers that will be required from England during future years, may be furnished to the Government of India as early as possible.

Governments of Madras, Bombay, Bengal, North-Western Provinces, and Punjab; Chief Commissioners of Central Provinces, British Burmah, Oudh, and Mysore; Resident at Hyderabad; Agents, Governor-General, Rajpootana and Central India, and Superintendent, Port Blair and Nicobars.
Chief Engineer, Punjab Northern State Railway.
Engineer-in-Chief, Indus Valley State Railway.
Superintending Engineers, Holkar and Neemuch State Railway.
Superintending Engineers, Delhi and Agra Districts, Rajpootana State Railway.

2. Any of the articles in question which may have been indented for during the current year, and which are not entered in the statement prepared by the India Office, should be included in the estimate now called for.

(Signed) P. P. O'CONNELL, Lieut.-Colonel, R.E.,
Offg. Depy. Secy. to the Govt. of India.

From the Secretary of State for India, to the Government of India, dated India Office, London, 29th February 1872, No. 87.

It having been recently proposed by the officer appointed to examine scientific instruments required for Government service in India, that an apparatus should be obtained for testing thermometers, my attention has been drawn to the large number of thermometers recently indented for from India.

2. I annex a statement of the demands which have been received during the years 1869, 1870, and 1871, and I have to request that I may be informed whether there is a prospect of such large supplies being needed in future years.

3. The demand for 582 thermometers, included in the medical indent received from Bombay in 1871, especially appears to call for explanation.

4. Pending your reply the proposed apparatus for testing thermometers will not be provided.

BENGAL.

1869. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Public Works letter No. 6, 1868, Jan. 14th.	12	12
Medical Indent, „ 41, „ April 1st.	12	...
Revenue „ „ July 14th.	64	50
Public Works A and B, 1869, Jan. 2nd...	...	103
„ Indent 1869, July 5th	156	...
Revenue „ 1868, „ 14th and	...	72
Revenue letter, No. 18, 1869, July 22nd...	...	...
Total...	244	212

1870. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Medical Indent No. 42, 1869, August 1st ...	...	...
Public Indent No. 1,057, 1869, July 30th ...	272	...
Total...	272	...

1871. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Medical Indent, No. 45, 1870, April 1st	68	167
Mint Assay Indent No. 4, 1871, February 24th	2	...
Financial Indent, 1871, May 11th ...	6	...
„ „ letter No. 211, 1871, Aug. 19th.	7	1
Total...	83	168

1870. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Medical Indent, No. 38, 1870, Dec. 1st	103	474
Marine „ „ 12, „ „ 20th	...	35
Medical „ „ 37, 1869, „ 1st and	...	6
Council Minute, 1861, January 12th ...	...	...
Total...	103	515

1870. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Revenue Survey Indent, 1870, Jan. 13th	...	2
Medical Indent No. 55, „ Aug. 1st.	29	12
Educational Indent, No. 13, 1870, December 20th	...	2
Total...	29	16
Total to 3 Presidencies...	220	699

BOMBAY.

1869. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Military Indent No. 1, 1868, August 5th.	6	5
„ letter „ 6, „ Nov. 25th...	1	...
Medical Indent „ 33, „ Dec. 14th...	54	23
Public Works „ 13, 1869, Jan. 11th...	1	17
Revenue letter „ 17, „ April 17th...	24	...
Marine Indent „ 2, „ „ 24th...	...	13
Total ...	85	63

1870. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Ordnance Indent No. 50, 1869, October 18th.	4	...
Medical Indent No. 37, 1869, December 1st.	116	...
Total...	120	...
Total to 3 Presidencies...	381	380

MADRAS.

1869. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Medical Indent No. 33, 1868, August 1st.	36	...
Ordnance „ „ 91, „ Dec. 18th.	...	1
Medical „ „ 1869, May 11th	3	...
„ „ „ 34, „ August 1st	12	71
Total...	51	75

1870. Indent, Name, Number, and Date.	Thermometers, Number of. Superior.	Ordinary.
Ordnance Indent No. 93, 1869, October 22nd.	4	...
Public Works No. 604, 1869, December 15th	17	4
Total...	21	4
Total to 3 Presidencies...	413	459

No. 308. ORDER THEREON, 19th August 1872, No. 1,969.

ACCOUNT, No. 26.

COMMUNICATED to the General Superintendent of Public Works Stores and to the several Departments of the Secretariat with a view to the required information being obtained and furnished to this department for submission to the Government of India.

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

To the General Superintendent of Public Works Stores.
„ Public Department.
„ Revenue do.
„ Military do.

Order in the Public Department 29th August 1872 No 1001

Communicated to the Inspector General Offices Indian Medical Dept and Ordnance & Magazines, and to the Director of Public Instruction, who will furnish the information required, direct to the Public Works Department.

(True Extract)

G. W. Walker
Lt Under Secretary

To the Inspector General Indian Medical Dept
Ordy Ordnance & Magazines
Ed. Austin
Director of Public Instruction
Public Works Department

X 8.9

" In charge Ordnance Office.

P. Off. 1873 Depart.
Pro: of Sept for Aden
No 4360.

Pro: of Meteorl. Soct.
Public Depart:

Dated 29th augt.
Recd 6th Sept. } 1872.

No 1001.

Giving instruc-
tions for obtaining
the information
required regarding
the thermometers
that will be
required from
England during
future years.

No 2364 - 2365 f 10-72

No 123
3 Oct 72
Meteorological Society

Proceedings of the Madras Government, Military Department, 6th September 1872.

Read the following papers, relating to an estimate being furnished of the probable number of thermometers that will be required from England during future years.

No. 91. From the Assistant Secretary to the Government of India, Military Department, dated 5th August 1872, No. 165.

No. 92. Proceedings of the Madras Government, Public Works Department, dated 19th August 1872, No. 1969.

No. 93. From the Inspector General, Indian Medical Department, to the Officiating Secretary to Government, Military Department; dated Fort Saint George, 27th August 1872, No. 279.

Letter from the Government of India, No. 165 of 5th August 1873, Military Department.

With reference to the communication marginally noted, referred to me under your docket memorandum of the 15th instant, I have the honor to report, for the information of His Excellency the Governor in Council, that during the years 1869, 1870 and 1871, the only meteorological thermometers entered in the annual indents of the Madras Medical Department, were twenty-four in indent No. 34, dated 1st August 1869, and seventeen in indent No. 35, dated 1st August 1870.

2. There has been a considerable demand for thermometers required for other purposes, and I beg to submit the following statement showing the total quantities of thermometers indented for during the past three years:—

In indent No. 34, dated 1st August 1869.

	Due on former indent.	Indented for
Thermometers, clinical	... 36	12
Do. metal for baths	... ...	36
Do. for Carre's ice machines ...	... ...	24
Do. ordinary	... ...	24

In indent No. 35, dated 1st August 1870.

	Due on former indent.	Indented for
Thermometers, clinical	... 12	12
Do. metal bath	... 36	12
Do. self registering	... ...	17
In indent dated 1st August 1871... ...	...	None.
	Total indented for...	137

It will thus be seen that the total demands for thermometers by the Medical Department during the above period amounted to 137. Of this number twenty-four were clinical thermometers, instruments which have only come into use of late years, but which are now in great demand and of immense value in the diagnosis and treatment of disease. I am therefore of opinion that the demand for this class of instruments is likely to increase, more especially as they are liable to be broken, and as it is essential that every hospital in charge of a medical officer should have one or more of them for use.

3. With regard to the thermometers for Carre's ice machines, it seems probable that the demands for these will grow less, as railway communication is extended, and the facilities for getting natural ice from the Presidency towns for use at mofussil stations are increased.

4. The meteorological thermometers have been got out for the British Medical Department, and a small number of these may be required from time to time. The same holds good as regards bath thermometers.

No. 94. ORDER THEREON, 6th September 1872, No. 2838.

Ordered that the letter from the Inspector General, Indian Medical Department, be communicated to the Government of India, and a copy furnished to the Public Works Department.

No. 95. *To the Offg. Secy. to the Govt. of India, Mily. Dept.* } Here enter 6th Sep. 1872, No. 2839.

(True Extract.)

Offg. Secretary to Government.

To the Public Works Department. With 20 spare Copies.

Ex.J. J. E. Cashart.

Public Works Department
(Irrigation Branch) No. 4466
Govt. of 1872 Madras.

MILITARY.

To

THE PUBLIC WORKS DEPARTMENT.

Dated Sept. 9, 1872.
Read " 12th Inst.

G. O., Oct. Sept. 7, 1872, No. 2388.

S.

SEPTEMBER.
Nos. 91–95.

Despatch from the Inspector General, Public Works Department, regarding the [illegible] ordered to be communicated to the Government of India, and a copy furnished to the Public Works Department.

Ord 124

Ack 9th Sept 72

Ack 9th Sept 72
No 3864-2065-Sept 10-72

Ordnance Department

ORDNANCE OFFICE,
Fort Saint George
9 Sept. 1872.

No. G/185

From,
Colonel R. Cadell R.A,
Offg Dy. Inspector General of Ordnance and Magazines.
In charge Ordnance Office.

To,
The Secretary to Government,
Public Department.

Sir,

With reference to the Order of Government No. 1000 dated 29 August 1872, I have the honor to report for the information of Government, that the ordinary thermometer indented for by this Department in 1868 was for the use of the Gun Powder Factory for determining the moisture in Gun Powder, its cost was Rs. 5:7:4.

2. The four Superior Maximum and Minimum Thermometers indented for in 1869 were also for use at that Factory, being absolutely necessary in the drying or stoving house, and as it was found that the ordinary maximum and minimum Thermometers had not sufficient range up to the artificial temperature of this house, four of them were indented for with a range up to 140° and these thermometers cost the State Rs. 45:2:0.

3. I am unable at present to state, whether any further demands for ordinary and for wet and dry bulb thermometers will have to be made to carry out the system of ventilation in Powder Magazines as ordered in Bengal, the question being still undecided as regards this Presidency, and my opinion being at present adverse to the Bengal System being applied to us.

I have the honor to be,
Sir,
your most Obedient Servant
R Cadell Col. R.A.
Offg: Dy Inspector Genl of Ordnce & Mags.
In charge Ordnance Office.

Office

No. 2030.

OFFICE OF THE DIRECTOR OF PUBLIC INSTRUCTION.

MADRAS, 18th September 1872

1872

From

E. B. POWELL, Esq.,
Director of Public Instruction.

To

The Secretary to Government,
Public Works Department.

SIR,

In connexion with Government Order, Public Works Department, No. 1969 of the 19th ultimo, I have the honor to state that the following appear to be the requirements of the Educational Department in regard to thermometers.

Medical College

5 Thermometers—every 10 years.

Civil Engineering College

1 Maximum, 1 minimum, 2 ordinary and 1 standard Thermometer—once in three years.

The other Educational institutions do not indent for thermometers.

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

E B Powell

Director of Public Instruction.

Transferred to the Public Works Department with reference to the Order in that Department dated the 19th August 72. No. 1969.

L. Rudyerd
Secy. to Govt.

To the Public Works Department.

Copied
Asst. Secy. to Govt.

Mlle. Sey. to Govt. Pub. Wks. Dept. 29 Aug. 1872 No. 1991

Public, 1872 Sept. 4858.
From
The Offg. Dy. Inspector Genl. of Civil Hospitals, Madras,
A charge of Rs. 2-8-0

To
The Secretary to Govt.
Public Branch

Dated 9 Sept. 1872

Rs. 2-8-0 at 1/2 per cent.

Richard Mackilligin at present to receive monthly at present to receive monthly at present to receive monthly

No. 1875
54

Revenue Survey Office
Chepauk
10th September 1872

1

From

The Superintendent Revenue Survey.

The Secretary to Government
Revenue Department.

SIR,

In obedience to the order of Government No. 1969 of the 19th August 1872, I have the honour to state that two Thermometers ordinary will be required for the official year 1874/75.

I have the honour to be
Sir
Your most obedient Servant

J Pinkney Col
Superintendent Rev Survey.

Encl Ctd
Copied 873

Rev. Dept. No. 1875 dated 10th September 1872.
From The Superintendent Revenue Survey.
To The Director of Public Instruction,

Dated 30th September 1872.
Received 19th October 1872.

Enclosures.

Stating the requirements of the Educational Department in regard to Thermometers

No. 2065-2305-9-10-72

Rev. Dept. Ctd 3 Oct 1872 No. 125

No. 2504-2305-9-10-72

Miscellaneous No 6450 Revenue Department.

Proceedings of the Board of Revenue
dated 23d September 1872.

Read Government Order, dated
27th August 1872. No 161, requesting the
Superintendent of Survey Department
and Board of Revenue to report on
the probable number of Thermometers
that will be required from them during
future years.

No indents for thermometers for
the Revenue Department have hitherto
been sent, and the Board are not
aware that any of these instruments
will be required in future years.

(True Extract)

H B Stokes
Actg Sub Secretary

To the Chief Secretary to Government
Revenue Department.

Received by Post
Office Board
Survey Department
No 4585.
Superintendent
Chief Secretary.

To
The Secretary to the
Govt Revenue Dept
Fort St George

Dated 10th
Rec'd 13
Rec'd 20th
Ans'd

1872

Herewith the letter from
Thermometer Factory
will be required by
the Revenue Board

Superintendent

18th Sept 1872

Answered 24th Sept 1872 -
No 124
Dept: & Sept
Chairman

B. W.
Revenue 1872 Ref.
Ans. if sent for Copy No 4755.
No 2425

Proceedings of the
Board of Revenue
Dated 23d September 1872
Desp. 23 — " —
Rec'd 26th " —
Read 30 — " —

Intimating, that no
thermometers for the
Revenue Depts have
hitherto been indented
for, and that Boards
are not aware that
any of these instru-
ments will be re-
quired in future Years

No 2364-2365 - 9-10-72

Secretary to the B. of R.

20 Sept 1872

I. Thurston
Dep Secy

No 128

Secretary to Govt of Bengal

Public Works 1872 Dept
Govt of India Letter No. 2199

No. 626 A. G.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

ACCOUNT.
General.

To The Secretary to Government
Madras.
P. W. D.

Dated Simla, 24th Septr 1872.

Rec'd 2nd October 1872.

THE undersigned is directed to invite attention to the reference from this Department, noted in the margin, and to request an early reply thereto.

P. Vannell Lt-Col R.E.
Offg Dy. Secy. to the Govt. of India.

No. 626 A.G. dated 24th July 1872.

SUBJECT.

Requesting submission of an estimate of the probable number of Thermometers required from England during 4 future years.

No 2365-

No 2364-2365-9-10-72

No 129
Rec'd 6 Oct 3 Oct 72

Office of Inspector General I.M.D.
Fort Saint George 17th September 1872

No 302.

17

From
The Inspector General of Hospitals
Indian Medical Department
Fort Saint George

To
The Secretary to Government
Public Works Department

Sir,

With reference to G.O. Public Department No 1001 of 29th August 1872, I have the honour to annex for the information of His Excellency the Governor in Council, a statement shewing the probable numbers of Thermometers that will be required annually, hereafter, by the Medical Department of this Presidency.

I have the honor to be
Sir
Your most Obedient Servant
Edwd Balfour Insp.r General
Insp.r Genl of Hosps Ind.: Medl Deptt

Memo

	Probable Annual requirements
Self Registering Maximum Thermometers — No.	6
—do— Minimum —do—	6
Clinical Thermometers — "	60
Thermometers for Carre's Ice Machines — "	6

Edward Seaton Insp.r General

Insp.r Genrl of Hospls Ind: Medl Deptt

From Govt Fort St. George
No. 4572.

The Insp.r Genl of Hosps
Indian Medl Deptt
Fort Saint George

To

The Secretary to Government
Public Works Department

Dated 17th September
Recd 19th ——— Do. } 1872

No. 302

Annexes a statement
shewing the probable
number of Thermometers
that will be required
annually by the Medical
Department of this Presy.

No 2364-2365- 9-10-72

No 130
dated 16 Oct & 3 Nov 72

Departments.	Description of Instrument.	No. req.	Remarks.
Indian Medical Department.	Self registering Max.m Thermometer	6.	
	do Minimum	6.	
	do Clinical	60.	Annually.
	do for Cavalry	6.	
	Lee Machine	6.	
Ordnance Dept.			The number required in future years cannot even be specified owing to the question of the ventilation of Powder Magazines which will affect the requirements of that Department being still undecided.

W. Walker Col. R. E.
Secretary to Government
P. W. D.

W. S.

20

P.W. Dept

No 2364

Proceedings of the Madras Government

Under date the 9th October 1872.

Read the following

From the Genl Supt P.W. Stores & Works & Sights — Hereenter No 5450 of 4 Sept 72.

Proc^s Madras Govt Pub Dept — " — " — " 1001 of 29 Aug "

Proc^s — do — do — Mily Dept — " — " — " 2838 of 6 Sept "

From the Offg Dy Inspector Genl in charge Ordnance Office — " — " — " No 165 " 9 Sept "

" — " Director of Public Instruction — " — " — " 2030 " 18 Sept "

" — " Supt Revenue Survey — " — " — " 1825 " 10 Sept "

" — " Board of Revenue — " — " — " 8560 " 23 Sept "

Proc^s of the Board of Revenue — " — " — " 626 " 26 " "

From the Govt of Bombay — " — " — " 3021 " 7 " "

" — " Inspector Genl of Hospitals Indian Medical Dept

Ordered that the following letter be sent to the Government of India.

A E No 7

No 2365.

To

The Secretary to the Government of India.

Sir.

With reference to your Docket No 626-41, A G dated 24th July

July 1872 Jam directed to forward the accompanying Statement shewing the number of Thermometers that will be required from England during future years by the several Departments under the Madras Governments.— Gun

25 = Lie-S dispt 9/10/72 with Statt
P-C — 17/10/72 —

Govt. of [1872] Madras.

PUBLIC WORKS.

To The Secretary to the
Govt of India

Dated

Read. Encl.

G. 9th October 2364-2365.

Nos. 122 & 131 & 132

Thermometers. Passing orders
on Correspondence relating
numbers of
Sets of Thermometers required
from England during future
years by the General
Dept under the Madras
Govt.

To Forwards a Statement
showing the number of Thermometers
required from England during future
years by the General Dept under
the Madras Govt.