M.R.O. 1—77,006—8-6-37.

(1) Number of pages 4

(2) Date of repair 4-1-1963

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works **DEPARTMENT.**

G.O. No. 127
261-262

Press
~~Mis.~~

Dated 4 — 1 — 1866.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
11th January 1866.

No. 261. Read the following Proceedings of the Madras Government in the Military Department :—

Communicating certain correspondence on the successful working of the Ice machines which were sent to the Public Works Workshop at Chepauk. } (Here enter 10th January 1866, No. 125.)

No. 262. ORDER THEREON, 11th January 1866, No. 127.

ESTABLISHMENT, No. 22.

Communicated to the General Superintendent of the Public Works Stores and Workshops.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the General Superintendent Public Works Stores and Workshops.

Exd. S. T. Augustin,

MILITARY DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Read the following papers:—

From the Principal Inspector General Medical Department, Fort Saint George, 13th December 1865, No. 382; to the Secretary to Government, Military Department.

With reference to the Proceedings of Government, dated 17th November 1865, No. 4246, I have the honor to forward a report received from the Medical Store-keeper, on the successful working of the ice machines sent to the workshops at Chepauk.

No. 291, dated 5th December 1865.

2. In the Proceedings of Government, dated 15th August, No. 3020, sanction was accorded to these machines being fitted with slings at the Mint. I beg that permission may be granted for this being done by the Public Works Department, as it will be seen from the accompanying copy of a memorandum* from Mr. Moncrieff to the Medical Store-keeper, that he is now prepared to have this work executed under his own superintendence.

**No. 1077, dated 8th December 1865.*

3. With the sanction of Government, I propose to direct the issue to European Hospitals of the machines now proved to be in working order, and to have each of the others in store tested previous to being sent to be fitted with a sling, as any repairs required might be done at the same time at the workshops at Chepauk.

4. The Medical Store-keeper will be directed to draw up a memorandum of instructions, in communication with Mr. Drodret.

From the General Superintendent of Public Works Stores and Workshops, Chepauk, 8th December 1865, No. 1077; to the Acting Medical Store-keeper, Fort Saint George.

Reference.—Your letter No. 297, dated 8th instant.

With reference to your letter of this date, I will be happy to fit up one ice machine with chains and slings, and if approved of by the Principal Inspector General of the Medical Department, alter all the others in your store accordingly.

From Assistant Surgeon GEORGE BIDIE, M. B., for Medical Store-keeper, Fort Saint George, 5th December 1865, No. 291; to the Secretary to the Principal Inspector General Medical Dept.

I have the honor to report that, in compliance with your memorandum, No. 4054, attached to Proceedings Madras Government, Military Department, No. 4246, concerning Carre & Co.'s ice machines now in store, I met Mr. Moncrieff, General Superintendent, Public Works Stores, on the 2nd instant, to see five of the machines in question duly tested.

2. In commencing operations, the instructions supplied by the makers with each machine were carefully followed, and in due course they all began to freeze the water in the cylinders vigorously, and the moisture on the outside of the congelators was converted into ice.

3. Each machine is supposed to yield 4 lbs. of ice at each operation, but on no occasion I believe has the return been quite up to that amount. The process of making is somewhat tedious, and will vary in duration from three to five hours, according to the temperature of the water in the large tub; and the skill with which the machine is worked. After a little experience, one or two ordinary coolies would, under the supervision of a Medical Subordinate, probably be capable of using the machine.

4. It does not appear that the machines sent to the Public Works store required any repairs, but had become partially inefficient from long disuse and tossing about during the voyage, landing, &c. A skilled workman, like Mr. Doderet, was of course able to discover this, and by careful management to render them quite efficient again.

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5. I would recommend, however, that each machine before issue be supplied with the lifting apparatus recommended by Mr. Moncrieff, on Dr. Barclay's suggestion, in his letter, No. 16, to Principal Inspector General Medical Department. This would obviate all risk of injury to the machine during the process of reversing, &c., and enable the coolies to manage it. Each machine should be tested in the Medical Stores before issue, and if found out of order, might then be sent to Mr. Moncrieff's Department to be put in working trim. Along with each machine too, further written instructions, as to the management, might be sent, as the printed directions are scarcely sufficient.

6. The quality of the ice made by these machines is as good as that prepared by other artificial means, but sometimes has a faint flavour of the spirit used in the congelator. Mr. Doderet informed me that according to his experience, the freezing process was considerably accelerated by using Alcohol instead of a weak spirit in the congelator. In order to have a supply of ice always ready in case of emergencies, and for daily use, the process of making should be commenced in the early morning, and the ice left in the cylinder until wanted, the boiler meanwhile remaining in the tub of water.

7. I have therefore to conclude by reporting that the five machines sent to the Public Works Department are now in working order, and would suggest that the others in store may be tested as required, before issue.

ORDER, No. 125. 10th January 1866.

Communicated to the Public Works Department.

2. The measures proposed in the foregoing papers regarding the ice machines for Hospitals are approved. The attendant expenses will be met under the sanction granted in Proceedings of Government noted in the margin.

No. 4246, *dated* 17*th November* 1865.

(True Extract.)

Deputy Secretary to Government.

To the Principal Inspector General Medical Department, with an enclosure.
,, Public Works Department. 4 Rch 20 spare Copies
,, Controller of Military Accounts.
,, Military Accountant.
,, Examiner Pay Department.

Exd. J. E. Cashart.

Lieut St George
11th January 1866

Lieut
1/1
Cmd 1/9 12th
General Hospital Fort
& M Stores and
Barrackpore —

2 Ice Machines
& 4 Moncrieff Furnaces

Sep. 18 Jany

58

To Y 1866 Dep^to
Proc^s of Govt^t for January
No. 146

To Proc^s of Govt^t in the
Mily. Dep^to

D/ 10 } Jany/66
Rec^d 16 }

No. 125

Comm^g certain corres-
pondence on the success-
ful working of the
Ice machines which
were sent to the
Penitentiary Penkahs
at Chepauk —

No. 261. 262

No. 127 - 11th Jany 1866
With an Order