

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No.	711	Press
B.P. No.		Mis.
114-115		
Dated	5-3-	1872.

Not to be folded or roughly handled

13

*Proceedings of the Madras Government, Public Works Department,
5th March 1873.*

No. 114. Read the following endorsement of the Chief Engineer for Irrigation, dated Lockinsula, 24th February 1873, No. 116:—

From Assistant Surgeon E. NICHOLSON, R.A., on special duty, Public Works Department, to the Chief Engineer for Irrigation, dated Bangalore, 17th February 1873, No. 19.

With reference to your letter No. 69, of 7th February, I have the honour to state that the use of the testing machine for a short time would be of great service to me. I am about to have a steel-yard testing machine constructed, and shall be glad of the opportunity of comparing the results of the two machines. Mr. de Michele's machine measures the resistance of cement to *tensile* strain, whilst the experiments hitherto made have generally given the resistance to a *transverse breaking* strain. I apprehend that there is not much difference between the results in the two methods, but the comparison will be of interest. The steel-yard machine used by Mr. Grant in testing cement for the London Board of Works, as far as I can gather from drawings, also gives the resistance to a transverse breaking weight; it costs £50, while, I believe, that I can get as efficient a machine made in the Sappers' Workshop for a fifth of the cost. The enclosed sketch will show that my proposed steel-yard machine will, as a lever of the second order, test the breaking weight, and as a lever of the first order, test the tensile strength both of cement blocks and of brick joints.

SUBMITTED to Government, with a recommendation that the cement testing machine, shortly expected* from England, be placed at Dr. Nicholson's disposal for a time, and that the General Superintendent of Public Works Stores be instructed to forward it to that officer on its arrival.

(Signed) J. MULLINS, Lieut.-Colonel, R.E.,
Chief Engineer for Irrigation.

No. 115. ORDER THEREON, 5th March 1873, No. 711.

ACCOUNT, No. 8.

COMMUNICATED to the District Engineer, Presidency, who will arrange for placing the cement testing machine on arrival at the disposal of Dr. Nicholson.

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

To the District Engineer, Presidency.
,, Chief Engineer for Irrigation.

#116.

Submitted to Government with
a recommendation that the ce-
ment testing machine, shortly
expected from England, be placed
at Dr. Nicholson's disposal for
a time, and that the Gen-
eral Superintendent Mr. Storey
be instructed to forward it
to that office on its arrival.

ide G.O. No. 2187
dated 14th Sep.
1872.

Lockwood at Washington D.C.
24 February 1873 Chief Engineer for Immigration

The Secretary to Govt. Mr.

11/11/73

11/11/73

P. W. 18/73
No. 13 63.
From
The Chief Engineer for
Irrigation.
To The Secy to Govt. Mr.
Deys.

Noted 24th Feby-73
Recd 1st March 73.
No 116.

Recommends that
+ Please sent to duty for the 25/7/73.

Recommends that
the Cement testing ma-
chine, shortly expected
from England be
placed at D^{rs} Nichol-
son's disposal for a
time
With an order

Communicated to the Chief Engineer (Recd)
no. 111
dey who will arrange for placing the cement
testing machine, as ordered, at the disposal
of Mr. Nichol-son.
MMMS
J. E. Tracy
Chief Engr. Irrigation
W. S. Clarke 5/3/73. Thos
P. C. 2-17/3/73

C/2/33
Govt. of 1873 Madras.
PUBLIC WORKS.

The District Engineer
Pondicherry

Dated

Recd.

Feb. 2

G. O. 5 Morels, N. 11.

Nos. 1149/15

Cement testing Machine.

The District Engineer,
Pondicherry,
instructed to place
the machines, on
arrival, at the dis-
posal of Mr. Nicholson.