

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Publications DEPARTMENT.

G.O. No.	1802	Press Mis.
446-47		
Dated	30th July	1879

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
30th July 1872*

No 446. Read the following Despatch from the Right Honourable the Secretary of State for India, (Public Works,) to His Excellency the Right Honourable the Governor in Council, Fort St George, dated India Office, London, 13th June 1872, No. 9 —

With reference to the Indent for Public Works Stores required in the present financial year, which was forwarded with the last paragraph of your letter in this department, No. 2, dated 29th February 1872, I have to inform your Excellency that the various supplies which are therein demanded will be provided, with the exception of the two machines for testing cement.

2. I enclose, for your information, a copy of a report which has been obtained from Mr. Parkes, C.E., on the form of machine which it is proposed in the indent should be supplied.

Dated 13th May 1872

3. Mr. Parkes has had considerable experience in testing cement obtained for the Kurrachee Harbour and other works, and in view of the opinion which that gentleman gives on the proposed design, I have decided to suspend the provision of the machines until your Government shall have had an opportunity of re-considering the subject.

MACHINE FOR TESTING CEMENT Dated 13th May 1872

I HAVE seen experiments with this machine, but I am not aware that it is in practical use except (probably) at the works of Messrs. Francis, with whom the inventor is connected

It appears to have several *prima facie* objections, which might, however, be partially or wholly removed by special arrangements, if on other grounds it has any special advantages over Adie's machine

Some of these are,

1 The endless screw working in the segment gives a cross strain on the latter, which would be communicated to the test block to its advantage

2 The strain is not brought on the block by an uniform rate of increase It comes rapidly at first and very slowly at last, as the movement of the weight becomes almost vertical This is in favour of weak and against strong samples

3. The moment the test block breaks the weight must fall, leaving no record of the strain applied, so that a reading may be easily lost. This, however, might be remedied by the addition of a clip on the scale to be left behind when the weight falls

4 The sudden fall of the weight must shake and jar every part of the machine
In all these points this machine is inferior to Adie's It is more compact than Adie's, but compactness is obtained at the cost of nicety, a short lever and heavy weight being substituted for a long lever and light weight An Adie's machine with a lever the same length as this, and therefore equally compact would still be better than this machine.

I do not know what are the relative prices asked, but I can see no reason why Adie's should not be made as cheaply as this Its construction is simpler

If the tests at Madras are intended to be applied to Portland cement from England, the use of a machine not generally recognized by manufacturers in this country would be an additional reason for their discrediting such tests if unfavourable, but the tests made in this country on shipment are undoubtedly the only ones on which questions with manufacturers should be based

*Proceedings of the Madras Government, Public Works Department,
30th July 1872.*

Though I consider this machine inferior to Adie's in principle, I yet think it would be useful and sufficiently trustworthy if on other grounds it be preferred. In the event of the Government giving further consideration to it I shall be happy to inspect its working and report more in detail.

The Director General of Stores

(Signed) W PARKES.

No. 447.

ORDER THEREON, 30th July 1872, No 1,802.

ACCOUNT, No. 33.

ORDERED that this despatch from the Right Honourable the Secretary of State with its accompaniment be communicated to the Acting Chief Engineer for Irrigation, for such remarks as he may wish to offer with reference to G. O. No. 554, dated 25th February 1871.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Acting Chief Engineer for Irrigation
,, General Superintendent of Public Works Stores

Exd S T. Austin.

Copy

5 10 3
2/13
13th May 1872.

Machine for Testing Cement.

I have seen experiments with this machine but I am not aware that it is in practical use except (probably) at the works of Messrs. Francis with whom the Inventor is connected —

It appears to have several *prima facie* objections which might however be partially or wholly removed by special arrangements if on other grounds it has any special advantages over Adie's machine. —

Some of these are,

1. The endless screw working in the segment gives a cross strain on the latter which would be communicated to the test block to its advantage —
2. The strain is not brought on the block by an uniform rate of increase. It comes rapidly at first and very slowly at last, as the movement of the weight becomes almost vertical. This is in favor of weak and against strong samples. —

3. The

Director General of Stores.

No 4. 1110.

Copy Report by Mr. Parker,
dated 13th May 1872.

Referred to in Public Works Report
Madras, No. 9, dated 13th June 1872.

Public Works.

No. 9

India office,

London 13th June 1872.

My Lord,

1. With reference
to the Indent for
Public Works stores
required in the present
financial year, which
was forwarded with
the last paragraph
of your letter in this
Department No. 2, dated
29th February 1872, I have

His Excellency
The Right Honorable
The Governor & Council
Fort St George

to

to inform your Excellency
that the various supplies
which are there demanded
will be provided with
the exception of the
two machines for testing
cement.

2.- I enclose for
your information a
copy of a report which
has been obtained from
Mr. Parker, C. E. on
the form of machine
which it is proposed
in the Indent should
be supplied

3 - Mr Parker has
had considerable
experience in testing

Cement

Dated 13 May 1872

Cement obtained for the
Rarrackee Harbour, and
other works. (and in
view of the opinion
which that gentleman
gives on the proposed
design, I have decided
to suspend the provision
of the machines, until
your Government shall
have had an opportunity
of reconsidering the
subject.

I have the honor to be,

Yr Lord,

your Lordship's most obedient,

humble servant,



No 3.

Acting Secy for Ind. Public Works
13 June 1872
Recd 18 July 72.
The Secy to Govt of India
No 9.
Encl. one.

Intimating that the
shoes required in indent
forwarded with letter No 2 of
1872 will be provided with
the exception of the machines
for testing cement and for-
warding copy of a report by
Mr. Parker C. E. on the
form of machine with
a view of a reconsidera-
tion of the design.

No 1802-30 D. by 72

Ch 446

Recd to Secy 20 July 72

No 1802 P. M. D.

Pr. of the Madras Govt. 116.
Read the following:-

Despatch from the
Rt. Hon. the Secy of
State for India } R. E. No 9 of 13 June 72

Ordered that
this despatch from the
Right Honorable the
Secretary of State with
its accompaniment be
communicated to the
Acting Chief Engineer
for Irrigation for such
remarks as he may
wish to offer with
reference to G. E.
S/P

No 554 dated 25th Febru-
-ary 1871.
Q. M. W.

27. 2. 71

not a student
in school
at 18

26

To
The Actg. Chief Eng^r
for Irrigation -
2 Cont. Superintendents

Dec 25/81/2

71

Delivered to Actg. Chief Eng^r 1/2/72
Delivered to Actg. Chief Eng^r 20 July/72

14100-00

