

(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.	2505	Press	<i>Original</i>
B.P. No.		Mis.	
Dated	4-9	1874	-195-

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
4th September 1874.*

Read the following papers:—

No. 80. From Lieutenant-Colonel J. GODDARD, R.E., District Engineer, Presidency, to Colonel G. W. WALKER, R.E., Secretary to Government, Public Works Department, dated Fort St. George, 3rd August 1874, No. 2,039:—

IN reference to G. O., No. 1,875, of 13th July 1874, I have the honor to request a further sum of Rupees 300 to enable me to construct a crushing apparatus for testing concrete.

2. Dr. Nicholson has kindly sent me the apparatus used by him, but it only tests tensile strength; and a hydraulic press kindly supplied by Lieutenant-Colonel Sankey is not sufficiently delicate.

3. Under the above explanation, I trust Government will sanction the money. If necessary, I can supply a drawing of the machine.

4. I have placed Mr. Grainger in sole charge of the experiments now, as I have not been able to devote sufficient personal attention thereto; and he can devote a portion of every morning to this work.

No. 582-D.

No. 80A. *Note by the Chief Engineer for Irrigation.*

I THINK that, if adequate tensile and cohesive strength and hydraulic energy be secured in the cements on which Colonel Goddard is experimenting, resistance to crushing will generally be found quite sufficient, but if, after further consideration, and perhaps some rough tests, that officer should think a more regular examination of the resistance to crushing possessed by his mixtures to be desirable, I would place the sum asked for at his disposal for the construction of a testing machine, while in any case this amount may be allowed for the purposes of the experiments generally.

JOTACAMUND, (Signed) J. MULLINS, Lieut.-Colonel, R.E.,
12th August 1874. *Chief Engineer for Irrigation.*

No. 81. ORDER THEREON, 4th September 1874, No. 2,505.

IRRIGATION, No. 12.

Account.

A FURTHER sum of Rupees 300 is placed at the disposal of the District Engineer, Presidency, from the grant for Minor New Works, *Military*, in connection with the experiments on cement and concrete which that officer is conducting, and his attention will be called to the remarks of the Chief Engineer for Irrigation in the foregoing Note.

(True Extract.)

Lieut.-Colonel, R.E.,
Joint Secretary to Government.

To the District Engineer, Presidency.

„ Chief Engineer for Irrigation.

„ Officiating Controller of Public Works Accounts.

Exd. S. T. Austin.

Spare Copies

106

District Engineer, Presidency

N^o. 2039.

From,

The District Engineer
Presidency

To,

The Chief Engineer, and
Secretary to Government
D.P.W.

Sir,

In reference to G.O. N^o. 1875 of 13th July 1874, I have the honor to request a further sum of Rs 300/- to enable me to construct a crushing apparatus for testing concrete.

2. Dr. Nicholson has kindly sent me the apparatus used by him, but it only tests tensile strength; and a hydraulic press kindly supplied by Lt. Col. Sankley is not sufficiently delicate.

3. Under the above explanation I trust Government will sanction the money. If necessary I can supply a drawing of the machine.

4. I have placed Mr. Grainger in sole charge of the experiments now, as I have not been able to devote sufficient personal attention thereto; and he can devote a portion of every morning to this work.

I have the honor to be
Your most obedient servant

W. G. G. G.
District Engineer, Presidency

Fort St. George.
3rd Aug 1874
Roh.

P. W. 1874 Sept.
No: 5233

From

The Chief Engr.
for Irrigation

Dated 12 August 1874.
Recd: 20

EO no: 2505. 4-5-74.

Note on a
letter from the Dist.
Eng. Presidency, re-
questing further funds
for constructing a
crushing apparatus
for testing concrete.

Ob. 800

Recd 21-8-74 & 27-8-74.

Public Works Department
Proceedings of the Madras Government
Read the following
From The Dist Engr (P. B. Co. 2039 dated
" Chief Engr for Dist (P. B. Co. 2582 dated 12"
3 Aug 1874)
Aug 1874)
2505.

A further sum
of Rupees 300 is
placed at the dis-
posal of the Dis-
trict Engineer, Pre-
sidency, in connection
with the experiments
on cement and con-
crete which that
officer is conduct-
ing, and his at-
tention will be call-
ed to the remarks
of the Chief Engr.
for Irrigation
in the foregoing
note.

M. S. P.

34

The Dist. Presidency Engr.
for the Chief Engr for Dist.
Contractors

15/8/74

Engr.

and the other side
 of the mountain
 is the same
 and the same

and the other side
 is the same
 and the same
 and the same

and the other side
 is the same
 and the same
 and the same

80 - 81

Recd 21-8-74 R. 27-8-74
 Recd 18/8/74 R. 18/8/74

and the other side
 is the same
 and the same
 and the same

and the other side
 is the same
 and the same
 and the same

and the other side
 is the same
 and the same
 and the same

and the other side
 is the same
 and the same
 and the same

2

25

4861 5233

Obt. of 1874 Orders.

PUBLIC WORKS.

The Dist. Ingr
Residency

Dated

Recd.

Encl.

G. O. 2nd Sept. No. 2575

Nos. 80-81.

Experiments with Enclage

A further sum of Rs 300
placed at the disposal
of the Dist. Engr. Residency
in connection with the
experiments & his attention
called to the remarks
in the note by the Chief
Engr for D. S. G.