M.R.O. I—77,006—3-6-37.

(1) Number of pages.

(2) Date of repair.

(3) Initials of the Referencer.

MADRAS RECORD OFFICE.

Government of Madras.

Public DEPARTMENT.

G.O. No. 115 Press / Mis.

Dated 14 1 1871.

Not to be folded or roughly handled

No 113
Ordered to be recorded.

Forbes Sainsbergen
16th January 1875

Pub. Works 1870 Dept.
No 3210
No 5274
From
The Secy. Govt. Engr.
1st Division

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

Dated 19th December 70
Received 31st
C-11-Pub. W.

Forwards the original
Report from Major
Officers regarding the
best Method of
fastening doors and
windows of Public
Buildings.

No 113 - 16th Dec 1871
With an addl

Govt. of Madras

PUBLIC WORKS.

No

Dated.

Read.

No. 16 Vary 1 x 113.

Nos. 2301234

Doors & Windows of Public Buildings. Papers forwarded by the Engineer Officer for the best method for fastening doors & windows of Public Buildings, recorded.

16

Proceedings of the Madras Government, Public Works Department,
16th January 1870.

No. 233. Read the following letter from the Acting Superintending Engineer, 1st Division :—

Forwards the original reports from Range Officers regarding the best method of fastening doors and windows of public buildings. } (Here enter No. 3,210, 19th December 1870.)

No. 234. ORDER THEREON, 16th January 1871, No. 113.

CIVIL WORKS, No. 16.

ORDERED to be recorded.

(True Extract.)

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

Camp Cannanore

Camp Cannanore

No. 235

From

The Officer In-charge No. VI or
Rajahmundry Range Godavery

To

The Supg Engineer
Rly Division

Dated 7th September
Received 10th " } 1870

Enclosures, One

Subject DM 524/70

Your Endorsement No 1820 dated 6th July/70

Begs to forward a plan with specification illustrating the Method for securing the intrados fastening of doors in the Public buildings from Porlom

outside

E. Harman
Asstt Engineer Ld

No 573

No 3 or Western Delta
Range Office Narsapur
12th October 1870.

From The Executive Engineer
No 3 or Western Delta
Range. Godavery District

To The Superintending Engineer
1st Division
Dowleswaram

Sir

With reference to your endorsement No 1311 dated 20th July on Government Order No 1,620 dated 6th July regarding the fastenings to Windows of Public Buildings being placed beyond reach from outside, I have the honor to state that I cannot suggest any method by which this can be accomplished.

I have the honor to be

Sir

Your most obedient servant

J. W. Ellis.
Supervisor in Charge
No II Range Godavary

to Put it to construction

2 bolts one each I suggest that two be
bolts be fastened one to the half shutter
that

Range Gody

Compd Lo 18

Sir

Your Most Obdt Servt

Irw. Randall

Executive Engr

No 3 Range

No. 130

No. 3 OR VIZIANAGRAM RANGE OFFICE,

VIZAGAPATAM DISTRICT. 25 July 1870

From

The Executive Engr

Vizianagram Range

To

The Superintending Engr

1st Division

Sir,

With reference to your endorsement No. 1311 dated 20 Instant on G. O. No. 1820 dated 6 July 1870, beg to report that when a door frame has two shutters venitian or glass instead of having 2 bolts on one half and lock (English) fastened on to the centre of the other and a window shutters instead of having 2 bolts one each I suggest that two bolts be fastened one to the half shutter that

From
The Executive Engr
No 3 Range

To
The Acting Engr
1st Division
(Dis) 5274/10
Dated 12th Augt
1870.
Cuddapah

Sir,

I have the honor to

Sir

Your Most obedient

L. D. H.

that over laps the other at the bottom
and top so that the bolts of the
locks will run into the door
frame above and below

Sir
Your Most Obt Servt
J. A. Hamilton Capt
Executive Asst Topographical
Engrs

1/E237 Fort [illegible] 66 Copies of Proceedings
The Inspector Camp Butler
of Instr: Dist Range 30 E Year 1859
Office of Asst Engr 1st Dist

Sir,

With reference to Your Endorsement
No 1311 dated 21st Aug 1859 made on C.O.
No 1620 dated 18th Aug 1859 forwarding Plans
& Estimate for Iron Fencing, Gates & Doors for
Powder Magazine, Offices & Store Houses
at Fort Kearney, with a plan and 2 models of fastenings
shewing the way proposed to fix the
Doors and windows. — I have the honor
to report that the Work is Carried on Sam Sun & Will be very
Safe, and no one can get in unless a
Key is kept in possession. —

Please excuse me for delaying
so long in Considering for this method.

I have the honor
Sir
Your most Obedt Servt
Lt Russell Corps
Asst Engr
1st Dist Range

interfere with ventilation, while it would effectually secure the Buildings from the exterior, whether the shutters were left open or closed, and whether they were damaged or in good repair. It would also prevent the men inside from breaking out of Barracks. And that all doors which are not guarded by sentries should be strong battened ones provided with good rim-locks.

I have the honor to be
Sir
your most obedt servant
J. E. Howard Lieut R.E.
Assistant Engineer Virginia

Asst Engrs Office
Camp Pendoor
27th July 1870

No 287

From The Asst Engineer
Vizagapatam

To The Superintending Engr
1st Division

Sir

No 3774/28

Referring to your endorsement No 1311 dated 20th inst. on C.O No 1620 dated 6th inst. regarding the best method of securing the internal fastenings of doors and windows in Military Buildings from persons outside, I have the honor to suggest that the frames of all windows shall be protected by iron bars, placed at about 4" clear intervals. This would not

No 4 Range, Office
No 378. Camp Bheemunkole
No 59. To Major J. F. Fischer R.E.
Asst Superg Engineer
1st Division

Sir,

With reference to Your's No 1311 dated 20th inst. at the foot of G.O. No 1620 dated 6th July 1870, I have the honor to inform You that, what would prevent the pilfering committed in Public buildings by the breaking of panes of glass and thereby opening of the internal fastenings of doors, is a wire net work in an iron frame screwed on over the panes of glass internal.

No 3 Range Office
Rajamundry
31st July 1870.

I have the honor to be
Sir,
Your most obedt humble Servt
James Lever
Superintending Overseer
In charge of No 3 Range

Executive Officer No 4
Range, Godavery

No 287

Asst Engr Office
Camp Pequeur
27th July 1870

No 378.

No 4 Range Office,
Camp Rheumadale,
17th August 1870.

From
The Executive Agent
No 4 Range, Godg.

To
The Superintending Engineer
1st Dn.

Encls
2.

Sir,

I beg to forward two drawings illustrative of fastenings of doors and Windows to prevent theft in public buildings, with reference to G.O. No 1620 of 6th July 1870, and Your No 1311 of the 20th July 1870.

I remain
Sir,
Your Most Obedient Servant

[signature]
Executive Agent No 4
Range, Godg.

Compd Lo 88

No 76

No 2 Range Office
Berhampoor
26th July 1870.

From
The Assistant Engineer
in charge of No 2 Range Ganjam

To
The Superintending Engineer
5th Division

Sir,

In reply to your No 1311 dated 20th Instant I beg respectfully to inform you that I think the suggestion put forward by the Government of India in the Military Department dated 6th June 1870 No 152 can be acted upon so as to obviate the evil therein alluded to a simple Bolt or Bar passes across Door or Window may be latched on the wall, removed beyond the reach or possibility of being opened from the outside of Door or Window. and this is in my humble opinion a very good and safe suggestion.

I have the honor to be
Sir
Your Most Obedt Servt

[signature]
Assistant Engineer

5 Oct 1870

From
The Executive Engineer
No 1 Range Ganjam

To
The Superintending Engineer
5th Division

No 3378
Dated 2 Oct 1870
Received 4 Oct 1870

Begs to forward
Two letters concerning civil
Station Boundaries
for decision thereon
Received thanks
Ganjam
Dated 5th Oct 1870

No 1 Engineering Office
Office Assistant
Pango

No 2 Hulk 1870.

Sir

I have the honor to be
Your obedient Servant
No 1 Engineering Office
No 1 Pango Ganjam

To The Superintending Engineer
1st Division

Sir

With reference Your
No 1311 of G.O. No 520 dated 15th July 1870.
I beg leave respectfully to state
that I die nothing that can be
suggested with simplicity towards
the Fastening of flanged door Gunnions
issued from being opened by removing a
pane of glass from outside.
The Gunnions of door Scuttles
which are intended to be opened with
cane by the animals, a hook are as
easy to those who can get their hands
from outside to do it.
I once resorted to a piece of
Cutching iron hooking to the [illegible] a groove

From 8/30/1784
The Assistant Engineer
No 2 Pango Ganjam
To The Supg Engineer
1st Division

Dated } 26 July 1870
Despd } 30/7/70

No 76
Replies to Memo No
1311 dated 20th July 1870.
Regarding the Public
Buildings

No 5274/70

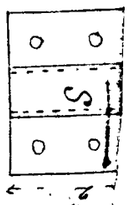
window fast by drilling a hole in the loop and bolt and putting a small screw into it. this may be done but it will no doubt prove a measure of security with a great deal of inconvenience to the inmates; it may be resorted to occasionly but to suggest that it should be attended to daily where there is a dozen of doors and windows is one that I cannot favorably recommend.

In my experience of glazed doors & windows I found them secure enough where the doors are 1/3 pannelled and only 2/3 glazed, each half door then has a bolt falling into the loop in the sill, the top bolts being regarded as mere fastenings and with a patent door lock; nothing seemed more secure windows invariably opened from inside and they were secured by either bars, or shutters hooked inside and the glazed windows closed against them and were simply buttoned I notice that the putty side of the glass are sometimes

put

put on the outside; this is a mistake it should be always inside when it is on the outer side there is no difficulty whatever in removing a pane without breaking it.

I beg to Remain
Sir
Your most Obdient Servant
Wm Bentley Inspector
In Charge of Golgonda Range



This represents the ordinary method of fastening doors inside, In order to prevent an individual outside from means

for some themselves

door in a the door the bar ...ing to the ...y and ...e is ...or is ...t into ...ers pump ...m the ...m the Cylinder ...bolt

...s when ...t case ...wer

The ... ... in a position ... this should be painted ... marking so that a person wanting to open the door from inside can put them at once in their proper position the ... Cylinder

Ex 30/8/70

From
The officer in charge of
Golconda Range
To SW 5th 14/70
The Supdt Engineer
1st Div

Dated 24th July 1870
Resp. 2nd Aug 70
SD 5-9108
Encls

Respectfully submits
to No 1131 in G.C. No 1620
dated 8th July 1870

PUBLIC WORKS DEPARTMENT

"On Her Majesty's Service Only"

2 Models – Enclosure of letter No 3210

TO

THE SECRETARY

TO GOVERNMENT D. P. W.

MADRAS

Jno. Warrefully

MANAGER.

SUPERINTENDING ENGINEER'S OFFICE 1ST DIVISION

From

The Officer In-charge of No. 3
or Vizianagrum Range,
Vizagapatam District

To

The Supdg. Engr

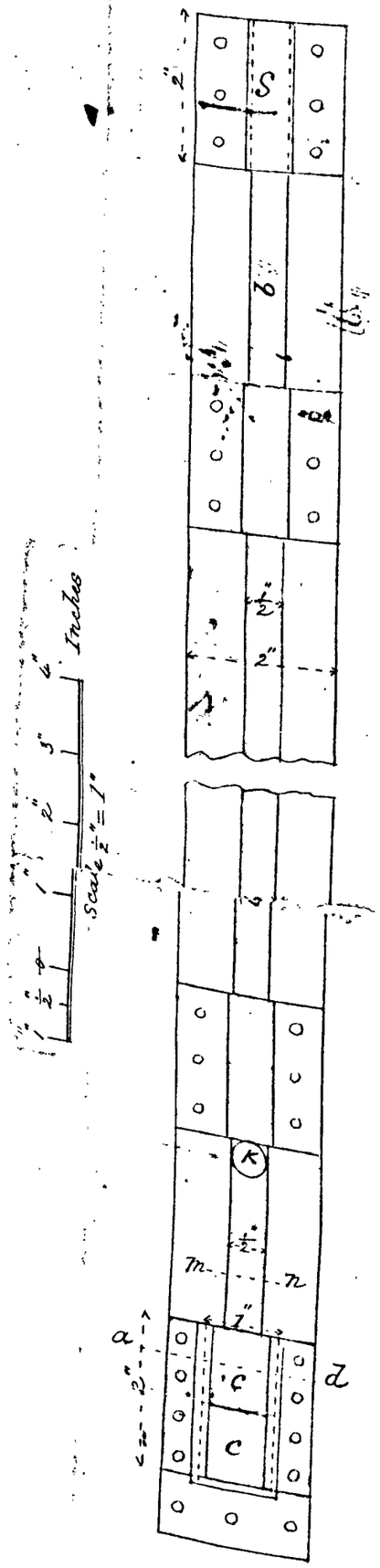
Dated 26 July
Despd.
Received / — 8 — 70
} 1870

No. 130

Enclosures. none

Regarding fastening locks to doors and windows

P.W.D. 5274/70



This represents the ordinary method of fastening doors inside. In order to prevent an individual outside from pulling down the bolt (bb) by means of knob (k) and so opening the door, have fitted in bolt frame at lower extremity of bolt (b) two hollow brass Cylenders (C & C) capable of revolving in a segmental frame (ff) have the Cross section of the lower extremity of the bar an irregular figure (I) corresponding to similar sections in the interior of the Cylenders so as that the bolt will only fit into the Cylenders when they are in one fixed position. When the door is fastened by pushing the bolt b into the socket S turn the Cylenders round so this position. A person from outside who now wishes to open the door will have to arrange the Cylenders before he can pull down the bolt — which is barely possible.

Gross Section on a, d



Gross Section on m.n



The exposed portions of Cylenders when in a position to allow bolt to pass thro should be painted or otherwise marked so that a person wanting to open the door from inside can put them at once in their proper position the Cylen

Cylinders should be milled so as to allow of their being turned round easily.

Camelcottah
7th September 1870

H Haman
Sp. Engineer Ld

Maj. RE
Ag. Supg. Engr

Ag. Supg. Engrs Office 1st Division
Dowlaishweram 9th December 1870

No. 3210

From

The Ag. Supg. Engineer
1st Division

To

The Secretary to Government
D.P.W.
Madras

Sir

In continuation of my letter No. 2073 dated 15th September 1870, and as requested in G.O. No. 1620 dated 6th July 1870, I have the honor to forward herewith the original reports as per margin received from the Range Officers in this Division regarding the best method for the fastening of doors & Windows of Public Buildings.

2 I beg to add Supervisor Ramiah's suggestion for a Lock & Key is ingenious, simple and might be effectual. Mr. Lewis's suggestion for using iron wire fencing for windows is

Letter No. 234 of 30th Novbr/70 with a plan 92 Models of No. 1 Range Ganjam
Letter No. 76 of 26th July/70 of No. 2 Rge. Ganjam
Letter No. 59 of 31st July/70 of No. 3 Rge. Ganjam
Letter No. 59 of 26th July/70 of No. 1 Rge. Vizagapatam
Letter No. 287 of 27 July/70 of No. 2 Rge. Vizagapatam
Letter No. 130 of 26th July/70 of No. 3 Rge. Vizagapatam
Letter No. 158 of 25 July/70 No. 2 Rge. Godavery
Letter No. 573 of 12 October/70 of No. 3 Rge. Godavery

X Separate Cover

is to consider the best ideas yet made here

I have the honor to be

Sir

Your most obedient Servant

Lette. No 378 of 17 Au
of No 4 Rga. God ave
2 Plans
Lette. No 235 of 7th
of No 6 Rga. Gord
with 1 Plan

Mil. Secretary Rga. P.C.

Ag. Supty. Engineer &c. Da

* To be return