

(10)
R. R. C. No. 8501

Comd to the Supg
Eng' & Ordnance and the
Military Department
and the Military
Department

Encl: 1 with g. s. c.
Type drawings read

Recd. 29. Sep. B-

Art.
Sept. 30, 1885

$\frac{Cu}{570}$

No. 24020 of 13th Oct/65

J - 8374
10/10/85

S.E.V.C. } With epia.
with 3 letters } memo & blank
July Septo } type
with 5-6 pages }
memo & blank drawing &
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10/10 Jan 4/10
Aug. 6/10
Q. 1. 10. 88 R 4/10/95 Aug 10/10

With order

MEMORANDUM TO ACCOMPANY DEFENCE COMMITTEE'S TYPE PLANS
Nos. 88 AND 89.

Extract from a Military letter from the Right Hon'ble the Secretary of State for India, No. 305, dated 6th November 1884.

Paragraph 6. Herewith is forwarded, for the information of the Inspector General of Military Works, copy of a letter from the War Office, dated 7th October 1884, suggesting that the system of locks in the fortress of Aden should be based on the recommendations of the Artillery and Engineer Works Committee together with the report of that Committee on the system of locks for a fortress and a copy of the drawings and specifications of such locks as supplied to the War Office by Messrs. Hobbs, Hart, & Co., of 76 Cheap-side, London.

Locks.

The drawing accompanying, marked A, gives full-sized drawings of the different locks, ordinary, sub-master and principal master keys, with notes of the different points to be observed in ordering.

Magazine locks.

Extra strong brass rim dead lock with heavy gun metal bolts designed to stand rough usage, made to lock on the one side as at D or two sides as at C as may be required, one key to each lock, with screw bolts as at E and nuts for fixing according to the thickness of the doors from 2 to 3 inches, with box staple for doors opening inwards as at G, and mortice plate for doors opening outwards as at F with heavy drop escutcheon as at H screws, &c., complete for fixing

	Shillings.
Price for the locks above specified, each ...	26/6
Sub-master keys extra, each ...	2/6
Principal master keys, extra ...	2/6
Extra cost of lock for principal master key to double lock, each ...	3/0

Locks for external or special doors.

These locks are made in distinct sets, numbered 1 to . . . for sub-master key to pass 1 to . . . varieties of keys. The sub-master keys simply pass the different varieties of locks which may be extended to 50, all different, and the principal master key passes all the sub-master keys, and by making the bolts of the lock to shoot twice can exclude for the time the use of the sub-master and all subordinate keys.

Shot and shell store locks.

Shillings

No. 120.—6" all brass full lever 2-bolt mortice lock with two No. 130 drop handles, two escutcheons, striking plate, screws, 1 gun metal key and patent spindle, each . . . 22/0

No. 122.—6" all brass full lever half rebated 2-bolt mortice lock with two No. 130 drop handles, two escutcheons, striking plate, one gun metal key and patent spindle, each . . . 23/6

No. 116.—4" all brass full lever 2-bolt mortice lock, with one No. 132 drop handle, one escutcheon, striking plate, screws, one gun metal key, and patent spindle each . . . 19/6

No. 118.—4" all brass full lever half rebated 2-bolt mortice lock with two No. 130 drop handles, two escutcheons, striking plate, screws, one gun metal key and patent spindle, each . . . 24/0

No. 118.—4" half rebated 2-bolt mortice lock with one No. 132 solid drop handle, complete as above, each . . . 21/0

Selected locks for other doors, also brass and galvanized padlocks made up in sets, each set to differ and sub-master key to pass.

Shillings.

D Pattern 7" Japanned rim dead-bolt locks, each . . . 8/6
D Pattern 8" Japanned rim dead bolt lock . . . 9/0

Shillings.

B Pattern 6" mortice dead-bolt lock . . . 8/0
B Pattern 7" mortice dead-bolt lock . . . 9/0
No. 120.—6" mortice 2-bolt lock with brass or ebony furniture, complete, each . . . 11/0
No. 128.—3½" extra strong all brass padlocks, each . . . 10/6
WAD.—4" galvanized iron, brass bolt padlocks, each . . . 7/6

All the above are supplied with one key to each lock.

Proceedings of the Royal Artillery and Royal Engineers Works Committee, dated 19th August 1884.

PRESIDENT:

The Senior Officer present.

Members:

COLONEL H. SCHAW, R.E.
CAPTAIN T. S. JACKSON, R.N.
MAJOR J. G. DAVIES, R.E.
,, D. D. T. O'CALLAGHAN, R.A.
,, T. ENGLISH, R.E.
CAPTAIN G. S. CLARKE, R.E.
MAJOR G. BARKER, R.E. (Secretary).

LOCKS FOR MAGAZINES.

Report concurred in. *Previous minute 44.*

The following report of the Sub-Committee nominated in minute 44 is for consideration:—

The Sub-Committee recommend that the doors of all the powder chambers at Hurst Castle be fitted with locks, each having its own key, but passable by one master key. The doors of light passages, which give indirect access to the powder chambers, should be treated in the same manner as the powder chambers themselves. The whole of these locks should, of course, differ from all others in the district. Those on the doors of powder

chambers only need be of brass, unless from their proximity to the sea the supply of the less corrosive metal is considered desirable.

The Sub-Committee find that there are no regulations on the subject of the arrangement of locks in fortresses generally, and they therefore submit a memorandum on the subject.

Memorandum on the system upon which locks should be supplied for the communication doors, &c., of a fortress.

1. The system upon which lock equipments are supplied by the Trade is as follows:—A number of different locks, say 1 to 50, each having a different key, is formed into a set passable by one sub-master key. A number of these sets, say 1 to 50, is formed into a group passable by a (principal) master key.

2. Applying this system to the case of a large fortress it appears that there should be four distinct groups of locks, demanding therefore four different (principal) master keys, viz.,—

- (a) Store magazine,
- (b) Artillery ammunition stores,
- (c) Artillery accessory buildings,
- (d) Communications.

(a) STORE MAGAZINES.

The number of these, even in a large fortress, is inconsiderable, rarely exceeding about 20. In certain cases it may suffice to form them all into one set, in which case a sub-master key will suffice.

In cases of large magazines, where there are several accessory buildings such as empty barrel stores, cooperage, shifting rooms, &c., it may be better to give each magazine a separate set with its own sub-master key. Main laboratories should form a set or sets in this group.

(b) ARTILLERY AMMUNITION STORES.

The locks should be arranged in sets corresponding with artillery sub-districts. The number of sets required would, therefore, tally with the number of sub-districts. Fort laboratories should be included in this group.

(c) ARTILLERY ACCESSORY BUILDINGS.

These locks should follow the same distribution as in (b).

(d) COMMUNICATIONS.

The locks on doors, gates, barriers, bridges, &c., should be arranged by sub-districts, coterminous with one or more artillery sub-districts.

It will generally be found convenient to form several artillery sub-districts into one communication sub-district.

Entrances to fresh water tanks (where locks are maintained) and other specialities might be attached to this group.

These four groups will generally meet all cases where locks have to be maintained.

(Sd.) J. G. DAVIES, Major, R.E.

(Sd.) H. SCHAW, Colonel, R.E.,
President, R.A. and R.E. Works Committee.



No. 245

FROM

THE SECRETARY, DEFENCE COMMITTEE,

TO

THE Secretary to the Government of Madras
Public Works Department
Madras

Simla, 21st September 1885.

Sir,

I am directed to forward for information 10 copies of each of the Defence Committee's type drawings quoted
* Nos. 87, 88, 89, 90, and 91. } in the margin together with 10 copies of Memorandum to accompany Defence Committee's type plans Nos. 88 and 89.

I have the honor to be

Sir,

Your most obedient servant

J. G. Bowyer,

Captain R.E.

For Secretary Defence Committee

J.G.B.

*R.H. Encl 1 / 85-
8301*

G.O. No 438 W. 24.2.83



No 2402 W a 13th Oct/85

Send to the Supg
Engr & Clerk and the
Military Department
and the Military
Department

Art

Sep. 30. 1885

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6.10.83

J. - 23/11
S.E. & C. } With copy
Mtg Dept } memo
Memo & blank memo
be memo
Oct. 6/10
G.O. 1.10.83

(10)

Rtr. C. No 8501

Encl. 1 with g.s.c.
Type drawing

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