M.R.O. 1—77,006—8-6-37.

(1) Number of pages 22

(2) Date of repair 23.11.43

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 2210 Press Mis.-
162-63

Dated 8 7 1869.

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 8th July 1869.

No. 162. Read the following letter from the Acting Inspector-General of Ordnance and Magazines, to the Secretary to Government, Military Department, dated Fort Saint George, 25th June 1869, No. 92:—

In continuation of my letter, No. 73, dated 16th June 1869, I have the honour to forward the accompanying plan, since received, showing the mode of drainage to be adopted in the Snider Ammunition Factory, with the view to its being transmitted for the information of the Engineer Department.

* With Explanatory Index.

TRANSFERRED to the Public Works Department, in continuation of Proceedings of Government, No. 2,417, dated 26th June 1869.

FORT ST. GEORGE,
30th June 1869.

(Signed) A. WILDE, Colonel,
Officiating Secretary to Government, M. D.

No. 163. ORDER THEREON, 8th July 1869, No. 2,210.

MILITARY WORKS, No. 14.

COMMUNICATED to the Superintending Engineer of the 4th Division, in continuation of G. O., No. 2,194, dated 7th July 1869.

(True Extract.)

Colonel, R.E.,
Secretary to Government.

To the Superintending Engineer, 4th Division, with copy of Plan and of Index.

Exd. F. R. Bantleman,

Govt. of {1869} Madr

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEE

4TH DIVI

Dated July, 8th.

Recd. *Encl.*

G. O., 8th July 1869, No. 2,210.

JULY.

Nos. 162-163.

Snider Ammunition Factory.—Letter from the Inspector-General of Ordnance and Magazines, received through the Military Department, forwarding a plan showing the mode of drainage to be adopted in the Snider Ammunition Factory at Madras, communicated to the Officer concerned.

(3)

Index.

W.J.C
22-6-69

Operations in the manufacture of the Boxer B.L. Blank Cartridges

In the Headings

Red means Ball

Blue means Blank.

S.
23.6.69.

No of Operation	Nature of Operation	By what performed	The same as is used for Ball	Required in addition to the Machinery for Ball	
	Making Base Discs				
1	Punching or forming Disc	Machine	31		
2	Dressing or Cleaning do	Revolving Drum	20		
3	Countersinking do	Machine	33		
4	Examining do	Table	29		
5	Blacking do	Furnace &c	35		
6	Inside Gauging do	Apparatus	36		
	Making Deep Base Cup.				
7	Punching or forming Cup	Machine	41		
8	Dressing & Cleaning do	Revolving Drum	42		
9	Annealing do	Oven	43		
10	Punching hole in do	Hand lever press	44		
11	Examining do	Table	45		
	Making Cap Chamber.				
12	Punching or forming (1st operation)	Machine	46		
13	Annealing	Oven	47		
14	Dressing and Cleaning	Revolving Drum	48		
15	Extending or 2nd operation	Machine	49		
16	Annealing 2nd time	Oven	50		
17	Dressing & Cleaning	Revolving Drum	51		
18	Extending or 3rd operation	Machine	52		
19	Trimming	Small Lathe	53		

No of Operation	Nature of Operation	By what performed	The same as is used for Ball	Required in addition to the Machinery for Ball	
	Cap Chamber Cont.				
20	Stamping	Machine	54		
21	Dressing in Saw dust	Revolving Drum	55		
22	Lacquering	Hot Plate	56		
	Making Percussion Cap.				
23	Punching or forming (1st operation)	Machine	57		
24	Annealing	Oven	58		
25	Dressing & Cleaning	Revolving Drum	59		
26	Extending or 2nd Operation	Machine	60		
27	Dressing in Saw dust	Revolving Drum	61		
28	Trimming	Machine	62		
29	Cleaning	Table	63		
30	Annealing	Oven	64		
31	Dressing & Cleaning	Revolving Drum	65		
32	Filling	Apparatus	66		
33	Pressing	Machine	67		
34	Damping	Apparatus	68		
35	Drying	Hot Room	69		
36	Cleaning	Table	70		
	Making Anvils				
37	Punching or forming	Machine	71		
38	Annealing	Revolving Drum	72		

No of Operation	Nature of Operation	By what performed	The same as is used for Ball	Required in additional letter Machinery for Ball	
	Making Paper Rods				
39	Cutting paper into pieces	Machine	73		
40	—"— "— "— Strips	do	74		
41	Pasting ends of do	Table	75		
42	Winding up Strips into Rods	Machine	76		
43	Drying Rods	Hot Room	77		
44	Pressing do	Machine	78		
45	Examining do	Table	79		
	Preparing Paper Cases				
46	Cutting paper into Strips	Machine	86		
47	Creasing do 1st time				
48	—"— do 2nd "	Table		/	
49	Racks shown for drying Strips	Iron Racks		/	
50	Rolling Strips into Case & cleaning Case with Indian Rubber	Table		/	
	Placing Case together				
51	Placing Cap Chamber & Base Disc together	Table	95		
52	Placing Paper Rod into Case	Table	96		
53	Crimping Case	Hand lever press	97		
54	Placing Base Cap, Cap Chamber & base disc together and fixing the whole	do	98		
			99		

No of Operation	Nature of Operation	By what performed	The same as is used for Ball	Required in addition to the Machinery for Ball		
	Compressing & finishing Cases.					
55	Compressing Rods & Securing base to body	Machine				
56	Rivetting & piercing Cap Chamber	Machine		1		
57	Examining	Table				
58	Chamber Gauging			1		
59	Examining					
	Preparing Paper Cylinder for Pellets					
60	Cutting Paper into Strips	Machine	1			
61	Pasting ends of Strips	Table				
62	Rolling or forming Cylinder			1		
	Making Powder Pellets					
63	Hydraulic Press for Pellets	Hydraulic Press		1		
64	Packing Pellets into Boxes	Table		1		
	Filling Blank					
65	Placing pellets into Cylinders	Table				
66	Boxwing			1		
67	Folding over Cylinders					
68	Piercing do					
69	Inserting Cylinder & pellet into Case	Table		1		

No. of Operation	Nature of Operation	By what performed	The same as is used for Ball	Required in addition to the Machinery for Ball	
	Filling Blanks				
70	Pressing down pellet	Table		/	
71	Crimping			/	
72	Cutting Discs of paper	Wood Block		/	
73	Pasting do do	Table		/	
74	Placing discs on Cartridges			/	
	Capping Blanks				
75	Preparing Cap & Anvil	Table	160		
76	Pressing Cap into Cartridge	Machine	111		
	Packing				
77	Printing paper for wrappers	Machine	85		
78	Cutting paper for do	Machine	86		
79	Packing into bundles of 10	Table		/	
80	Packing into Barrels &c	Space			
81	Stencilling & labelling packages	do			
82	Recording the Books	Office			
83	Gauging Metal &c	Table & Space			

Ordnance Department.

(15)

ORDNANCE OFFICE:

Fort Saint George,

25th June 1869.

No. 92

From

Colonel A. T. Cadell

Acting Inspector General of Ordnance and Magazines.

To

The Secretary to Government

Military Department

Sir,

In continuation of my letter No. 73 dated 18th June 1869, I have the honor to forward the accompanying Plan, since just received, shewing the mode of drainage to be adopted in the Snider Ammunition Factory, with the view to its being transmitted for the information of the Engineer Department.

* With explanatory Index

I have the honor to be

Sir,

Your most obedt Servant

A. T. Cadell Coll

Acg: Inspector General of Ordnance and Magazines.

&
A. T.

Cir 2718

Govt. of {1869} Madras.

PUBLIC WORKS.

To The Superintending Engr.
4th Division

&c, &c, &c.

Dated

Recd. 2nd.

G. O. 8th July 1869, No. 2210

Nos. 162-163

Sudder Ammunition Factory

Telegram the Majr Supdg Ordnance & Magazines Madras reqsting the July 1868 Forwarding a Plan shewing the modes of drainage &c. adopted in the Sudder Ammunition Factory Madras. and other Offrs. concerned.