

Enclosure in No. 11.

Messrs. SAMUEL LAWSON and SONS to Mr. E. Fox.

SIR,—

Hope Foundry, Leeds, 26th August, 1871.

We have now the pleasure to enclose you estimates, and also price, of the patent breaking machine. We propose to adapt a cistern over the machine, and have a constant stream of water playing on the rollers to free the gum from them, as well as from the fibre, as it is squeezed from the fibre or leaf by the action of the rollers. We think this riddance of the gum is a great feature in the preparation of New Zealand flax, and we are of opinion that the reciprocating action of our machine is particularly favourable to the attainment of that object, in conjunction with the use of water. We send you estimates of machinery for making bags and Hessians. Each loom would produce from 70 to 90 yards per day of Hessians, and 120 to 160 yards per day of bagging, according to the quantity. If you wish, we can send you estimates and plan of a factory for weaving or spinning, with engine shafting, and all accessories. For a rough calculation, you can reckon the cost of the machinery at one-third of the total cost of the factory. More detailed particulars of estimates shall follow by next mail.

E. Fox, Esq.

We have, &c.,

SAMUEL LAWSON and SONS.

Hope Foundry, Leeds, 28th August, 1871.

ESTIMATE of MACHINERY for Mr. FOX, from SAMUEL LAWSON and SONS, Leeds.

1. *Jute System for Warps and Wefts, from 6 to 12 lbs., chiefly from 7 to 9 lbs.*

Space occupied
by one machine
of each kind.

ft. in.	ft. in.		£	s.	d.	£	s.	d.
16 6	10 6.	1 Breaker card, 6 ft. × 4 ft., complete with clothing	200	0	0			
10 6	10 6.	1 Finisher card, 6 ft. × 4 ft., complete with clothing	240	0	0			
13 0	5 0.	1 First drawing frame, 3 heads, 4 deliveries per head, 6 in. hackle, 14 in. reach	100	0	0			
14 0	0 5.	1 Second drawing frame, 3 heads, 6 deliveries per head, 4 in. hackle, 12 in. reach	100	0	0			
21 0	4 6.	1 Roving frame, 6 heads, 10 spindles per head, 1½ in. hackle, 11 in. reach, bobbin 9 in. × 4½ in. = 60 spindles, 86s. 6d.	259	10	0			
21 0	6 0.	3 Double spinning frames, 60 spindles per side, 3¼ in. pitch = 360 spindles, 27s. 6d.	495	0	0			
						1,414	10	0

1 *Sacking Weft System, from 20 to 40 lbs.*

16 6	10 6.	1 Breaker card, 6 ft. × 4 ft., complete with clothing	£200	0	0			
10 6	10 6.	1 Finisher card, 6 ft. × 4 ft., complete with clothing	260	0	0			
13 0	6 0.	1 Rotary drawing-frame, 12 bosses	105	0	0			
21 0	4 6.	1 Roving frame, 48 spindles, 6 heads, bobbin 10 × 5, 100s.	240	0	0			
23 0	6 0.	3 Sides of spinning, 48 spindles per side, 5 in. pitch = 144 spindles, 38s.	273	12	0			
						1,078	12	0

For Sacking Weft System, for 28 to 50 lbs., on the Gill Spinning System.

16 6	10 6.	1 Breaker card, clothed complete	£200	0	0			
16 6	10 6.	1 Finisher card, clothed complete	260	0	0			
13 0	5 0.	1 Rotary drawing frame, 12 bosses	105	0	0			
18 0	4 6.	2 Gill spinning frames, 60 spindles each, bobbin 8 × 3½ = 120 spindles, 80s. 6d.	483	0	0			
						1,048	0	0

Packing and delivery in Hull or Liverpool, 5 per cent. additional ... 177 1 0

£3,718 3 0

1 Improved lapper	£100	0	0
1 Spreader	220	0	0
1 Drawing frame	220	0	0
24 Spindles, spinning	480	0	0
1 Rope-laying machine	120	0	0

£1,140 0 0

1 Patent breaking machine ... 150 0 0

£1,290 0 0

Packing and delivery in Hull or Liverpool, 5 per cent. additional ... 64 10 0

£1,354 10 0