M. E. Industries 40

I. Product and its uses

Twisted wire brush is used for washing and cleaning bottles etc. This is an item of consumer requirement and with the increase in number of educated people, the demand for this item is also increasing. (Reserved List Sr. No. 535).

II. Production Target

30,000 Brushes per month.

III. Manufacturing Process

Bottle cleaning brushes are made by twisting wires of nylon, animal hair, cocofibre etc. Washed and sterilised fibres of desired length are fed into two galvanised steel wires which are twisted by power operated machines. Thus the fibre gets the helical form. The brush is then trimmed to the required round size.

IV. Quality Control

Proper selection and quality of raw material would control the quality of the product.

V. Land & Building

Covered area 50 Sq. Mtr. on rent . . 500

Rs.

VI. Machinery & Equipment

1. Hand shearing machine	1,000
2. Sterilizing equipment	2,000
3. Wire twisting machine power operated-3	12,000
4. Brush making tools, fixtures, trimming tools etc.	3,000
Installation .	18,000 2,000
	20,000

VII. Office Furniture and Equipment

Tables, chairs, almirahs, typewriter etc. 8,000

VIII. Fixed Capital

1.	Machinery and	equ	ipme	nt.		20,000
2.	Office furniture				٠,	8,000
						28.000

IX. Raw Material (Per month)

15 000	s. 150			Nylon synthetic f	
15,000		• •		per Kg.	
	SWG			Galvanised steel	
6,000			er Kg.	600 Kgs. @ 10 p	
21,000					

BOTTLE WASHERS (TWISED WIRE BRUSH)

X. Staff & Labour (Per month)

				NO.	Rs.	
1.	Manager .			1	1,500	
2.	Workers .			5	2,500	
3.	Helpers			3	1,200	
4.	Clerk/Typist .			1	600	
5.	Peon/chowkidar .	1.00		2	800	
6.	Sweeper (Part.time))	. '	1	100	
				or loanes	6,700	

3.	Transportation of	char	ges			•	300
4.	Consumable sto	res,	binding	wi	re etc.		500
5.	Misc. expenses						300
							 1,800

XII. Working Capital (Per month)

1.	Raw Mater	ial				÷	21,000
2.	. Staff & Labour						6,700
3.	Other exper	ises	-				1,800
4.	Rent.			,			500
	•						30,000
					 a sana		manhared as the same named in age to the

For three months $= 30,000 \times 3 = 90,000$

XIII. Total Capital Investment

1.	Fixed capital				28,000
2.	Working capita	1.			90,000
					1,18,000

XIV. Cost of Production (Per month)

1.	Working capital	30,000
		30,000
2:	Depreciation on machinery @ 10%	250
3.	Interest on total investment @ 15%	1,500
		31,750

XV. Sales (Per month)

By sale of 30,000 Nos. brushes of different size and fibre @ Rs. 1 25 each

37,500

500

200

XVI. Profit (Per month)

Sa	ale			÷	1		Rs. 37,500 —31,750
						192 -	5,750
	ercentage of pro $5,750 \times 10^{-3}$ $= \frac{5,750 \times 10^{-3}}{37,50}$ ercentage of return $5,750 \times 10^{-3}$	100 500 urn o	- =1: n inve	5.3%	nt→		
XVI		3,000		=58 % is			anda in Mada
	Fixed Cost						Rs.
1.	Rent.						500
2.	Depreciation						250
3.	Interest .						1,500
4.	40% of salaries						2,680
5.	40% of others	1.00	16 . T	- D.			720
	Tot	al fix	ed co	st.			5,650

B.E. P. =	Fixed Cost $\times 100$						
	Fixed cost+Profit						
	5,650×100						
-	= = 49 % = 49 %						

XVIII. Addresses of Machinery Suppliers

- 1. Quality Machine Tools, Medows Street, Fort, Bombay.
- 2. Western Engineering Co., Industrial Estate, Srinagar.
- 3. Vankos & Company, Exhibition Road, Patna.
- 4. Modgil & Co. Kashmir Road, Batala (Punjab).