Aluminium Seal For LPG Cylinder

PRODUCT CODE : 335902006

QUALITY AND STANDARDS : Buyer's Specifications

PRODUCTION CAPACITY : Qty. : 180 lakhs (per annum)

Value: Rs. 40.20 Lakhs

MONTH AND YEAR : February, 2003 OF PREPARATION

PREPARED BY : Small Industries Service Institute

111-112, B. T. Road, Kolkata - 700035

Introduction

The Aluminium Seal is used in the LPG Cylinder as a security measure i.e. before delivery to the customers. So no body can tamper with it and use the gas partly, so as to avoid customer being cheated.

Market Potential

This type of product is required by all the manufacturers of LPG Bottles, i.e. I.O.L., HPCL. BPCL etc. The product has got increasing and steady demand as the production of LPG cylinders is increasing day by day.

Basis and Presumptions

The basis of calculation of production capacity is based on present local market rates on single shift per day and efficiency at 70% of installed capacity. The cost of machinery and equipments as indicated in this profile refer to a particular make and prices are approximate.

Working Hours - 8 Hrs./day
No. of Shifts - 1/ day.
Working days - 300/year
Labour Charges - As per the
Minimum
Wages Act.

IMPLEMENTATION SCHEDULE

This project will take its time of 7 to 8 months from the date of approval. Break up of activities with expected time and schedule is given below:

SI.	No. Activity	Period
1.	Market Survey and Scheme Preparation	2 Months
2.	SSI approval and registration	1 Month
3.	Sanction of Loan and Disbursement	2 to 5 Months
4.	Placement of Order and Procurement of machines	5 to 6 Months
5.	Installation of machines and power connection	6 to 7 Months
6.	Trial run and Commencement of production	7 to 8 Months

TECHNICAL ASPECTS

Process of Manufacture

Al-Sheets (0.2/0.3 mm or 36 SWG) of size 20" × 30" cutted from the continuous coil, will be used as the raw material. The above raw material will be fed into high speed power press for blanking and drawing. After the operation of power press, the material will be processed in the knotching press for keeping gap. Finally, the trimming operation is done, for removal of extra material and polishing, the seals are polished in the polishing barrel. The finished Al-sheets are inspected, properly packed and despatched.

Quality Control and Standards

There is no Indian Standard Specification for this item. All the parameters are covered by I.O.L./H.P. Specification vide Ref. No. RD 15G 214.

FINANCIAL ASPECTS

A. Fixed Capital

(i) Land and Building (Rented) Amount (In Rs.) Covered Area 400 Sq.Ft. 2,500/ month

(ii) Machinery and Equipments

SI.	Description	Qty.	Rate (Rs.)	Amount (In Rs.)
1.	High Speed Power Press-10 Ton Cap. Motorised	4	25000	1,00,000
2.	Trimming Machine Motorised	2	12,000	24,000
3.	Knotching Machine-Hand operated	2	5,000	10,000
4.	Treadle Shearing Machine	1	20,000	20,000
5.	Polishing Barrel	2	10,000	20,000
6.	Composite	L.S.	-	30,000

Sl. No.	Description	Qty.		ate (s.)	Amount (In Rs.)
	Tools and Dies, Work Bench etc.				
7.	Installation and Electrification Charge			-	20,000
8. 0	Office Furniture	L.S.		-	5,000
			Total		2,29,000

B. Working Capital (per month)

(i) Staff and Labour (per month)

SI. Designation No.	No.	Amount (In Rs.)
1. Manager/Supervisor	1	3,500
2. Machine Operator	4	10,000
3. Skilled Worker	4	8,000
4. Helper/Peon	2	3,000
	Total	24,500

(ii) Raw Material (per month)

Item	Qty.		Amount (In Rs.)
Al-Sheet 0.2 mm thick in t		84/ Kg.	2,52,000
101111 01 10111	To	otal	2,52,000

(iii) Othe	r Contingent Expenses (per mont	h) (In Rs.)
1. Rent		2,500
2. Power	er and Water	3,000
3. Cons	sumable Stores	2,000
4. Pack	aging, Grease, Kerosene Oil etc.	10,000
5. Offic	ce Expenses	1,500
	Total	19,000

(iv) Total Working Capital (pe	r month) (In Ks.)
1. Raw Material	2,52,000
2. Staff and Labour	24,500
3. Other Contingent Expenses	19,000
Total	2,95,500.00

C. Total Capital Investment

1.	Machinery and Equip	ment	Rs.	2,29,000
2.	2. Working Capital (for 3 months) 2,95,500 × 3		Rs.	8,86,500
		Total	Rs. 1	1.15.500

FINANCIAL ANALYSIS

(1)	Cost of Production (per annum)	Amt. (In Rs.)
1.	Recurring Expenditur	e	35,46,000
2.	Depreciation on Mac Office Equipment @		34,350
3.	Interest on total capi investment @ 16%	tal	1,78,500
		Total	37,58,850
		Say	37,59,000

(2) Turn-over (per year)	Amt. (In Rs.)
By sale of 180 Lakhs pieces of Aluminium Seal @ Re. 0.21each	37,80,000
By sale of scrap @ Rs 40 per Kg. for 6000 Kgs.	2,40,000
Total	40,20,000

(3) Net Profit

Rs. 40,20,000 - 37,59,000 = Rs. 2,61,000

(4) Net Profit Ratio

- $= \frac{\text{Profit} \times 100}{\text{Sales}}$
- $= \frac{261000 \times 100}{4020000}$
- = 6.5%
- (5) Rate of Return
 - <u>Net Profit × 100</u>Total Capital Investment
 - $= \frac{2,61,000 \times 100}{11,15,500}$
 - = 23.4%

(6) Break-even Point

Fixed Cost		Amt. (In Rs.)
Rent		30,000
Interest		1,78,500
Depreciation		34,350
40% of Salary		1,17,600
40% of Other Contingent Expenses		91,200
	Total	4,51,650

B.E.P. $= \frac{\text{Fixed Cost} \times 100}{\text{Fixed Cost} + \text{Profit}}$ $= \frac{4,51,650 \times 100}{4,51,650 + 2,61,000}$ = 63.3%

Addresses of Machinery Suppliers

- 1. M/s. Batliboi and Co. 190–A, Forbes Street, Fort, Mumbai-1.
- 2. M/s. H.P. Singh 75, Ganesh Ch. Avenue, Kolkata–13.
- 3. M/s. Oriental Machinery Works 23, R.N. Mukherjee Road, Kolkata-13.