PROJECTPROFILE

on

SLUICE VALVE MANUFACTURING

As per Template Provided by

DEVELOPMENT COMMISSIONER (MSME)

Government of India

Ministry of Micro, Small & Medium Enterprises

NirmanBhawan, 7th Floor, New Delhi - 110008

MONTH & YEAR OF PREPARATION : APRIL 2021

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COMMERCIAL DETAILS

1. HSN Code of Sluice Valve : 84818010

2. NIC Code : 28132

3. Existing Cluster of the Sluice Valve : There is no exclusive cluster approved by any agency for Sluice valve manufacturing. However, wherever valve manufacturing is done, sluice valve may easily be manufactured. Generally, the concentration of units arefound in the areas having sufficient number of casting units. Few major clustersare :-

- Coimbatore
- Hyderabad
- Ahmedabad
- Rajkot
- Kolhapur
- Batala
- Jalandhar
- Howrah
- Belgaum

4. Possibility to Establish Cluster of Sluice Valve : Yes, it may be established in the following districts :-

1. Batala
2. Jalandhar
3. Ludhiana
4. Chennai
5. Belgaum
6. Kolhapur
7. Rajkot

8. Coimbatore
9. Howrah
10. Agra
11. Pune
12. Ahmedabad
13. Hyderabad
14. Hubli
15. Dhanbad
16. Jamshedpur
17. Ghaziabad/Greater Noida

The location of Sluice valve manufacturing units should be closed to foundry hubs/machiningcenters.

5. Probable Areas/Districts where Sluice Valve Manufacturing Projects can be Established : The project of sluice valve manufacturing unit can be established in the areas closed to Foundry hubs/Machining hubs. There is no Foundry cluster in Bihar. However machining units are available in Bihar.Areas/Districts having potential of Sluice valve manufacturing projectare same as mentioned above at S.No. 4.All the above mentioned places have availability of raw materials, skilled work force, etc. It is recommended to encourage MSEs to establish Sluice valve manufacturing units inthe above mentioned areas to cater the needs of local demand for the product. "HAR GHAR NAL YOJNA" of Government will further increase the market potential of the product.Proposal for development of smart cities will lead to increased investment in water and sanitation infrastructure, which in turn will increase the demand for Sluice valves.

6. Number of Industries of Sluice Valve Manufacturing Registered as MSMEs : Total Valve manufacturing industry in India are 600 nos.Almost all valve manufacturers have the potential to manufacture Sluice valve also. Total number of MSME units inValve manufacturing sector are 580 nos.

7. Number of Sluice Valve Manufacturing Industries in Large Scale Sector : Total number of Valve manufacturing units in large scale sector are 20 nos.These large scale units are run by key players engaged in offering industrial valves in the global market, including Indian market. These key players service 40% of Indian market.The list of large industries are as follows :-

S.No.	Name of the Company	Plants in India
1.	L&T Valves Limited	Manapakkam, Chennai, Coimbatore, Kancheepuram
2.	NSSL Limited	Chennai, Nagpur
3.	Micro Finish Valves	Hubli
4.	CRI Valves	Coimbatore
5.	Kirloskar Brothers Limited (KBL Valves)	KirloskarWadi, Dewas, Kondhapuri, Kolhapur, Coimbatore, Ahmedabad
6.	VIP Valves Limited	Mumbai
7.	Hyper Valves Limited	Ahmedabad
8.	Amco Valves Limited	Chennai
9.	Racer Valves Limited	Ahmedabad
10.	Hawa Valves Limited	Mumbai
11.	Amtech Valves Limited	Ahmedabad
12.	Steel Strong Valves Limited	Navi Mumbai, Sanand

8. Import Value of Sluice Valve for the Last 3 Years :

Import Value of Sluice Valve (Rs in Crore)		
2017-18	2018-19	2019-20
52.72	59.33	89.46

9. Export Value of Sluice Valve for the Last 2 Years :

Export Value of Sluice Valve (Rs in Crore)	
2017-18	2018-19
664.13	598.59

10. Scope for Sluice Valve Manufacturing Units likely to be Established in Coming Years : The global Sluice valve market is expected to grow at a CAGR (Compound Annual Growth Rate)of 9% in next decade. Increasing industrial applications due to growth in industrialization and urbanization is anticipated to fuel the demand for Sluice valve in the coming years. Prominent manufacturers of sluice valves are focusing on geographic expansion to maintain their market position.The COVID-19 pandemic has caused economic instability across various industries in the world. This in turn is causing limitation in imports and exports. Government of India is focusing on improving drinking water facilities in urban as well as rural areas. Hence it is an opportunity for Indian MSEs to enhance production of Sluice valve/establish new units to make India AtmaNirbhar by discouraging import.At the same time, Sluice valve manufacturing companies need to focus on their online presence and creating Brand Awareness. With so many sluice valve manufacturers, suppliers and buyers on a single platform, it will create collaborative environment and improve the efficiency of complete valve chain.

MSEs playing in the field of Sluice valve need to focus on technology upgradation to remain competitive globally. Indian sluice valve industries need to invest in research &development and technology to capitalize on global demand.

It is assumed that out of 9% CAGR, 50% will be achieved by enhancing production/production capacity of the existing units and rest with establishing new units. There is scope of establishing new MSEs in the area closed to foundry hubs/machining centers.Hence there is scope for establishing new MSEs in and around Rajkot, Ahmedabad, Vadodara, Hooghly, Noida, Western UP, Jamshedpur, Howrah, Jalandhar, Chennai.

Year wise projection of new MSMEs likely to be established in the field of Sluice valvemanufacturing are as given below :-

Year	**No. of New Units likely to be Established in India**
2021	20
2022	20
2023	20
2024	20
2025	20
2026	20
2027	20
2028	20
2029	20
2030	20

11. Demand of Sluice Valve in Domestic Market : Rs 300 Crore.

Annual Demand in domestic market is growing @ CAGR of 5.9%. It is likely to increase due to growth in industrialization and urbanization.“HarGharNalYojna”and Smart City concept of the Government will increase the demand for Sluice valve.Domestic Sluice valve demand is expected to grow at a CAGR of 9% in the next decade. The COVID-19 pandemic has caused instability in imports as well as export. This uncertainty will enhance the demand in the domestic market.

12. Demand of Sluice Valve in Export Market : There is huge demand for Sluice valve in the export market. Global industrial valve market is all set to touch USD 88.4 billion by 2021. Indian industrial valve market is expected to touch USD 3 billion by 2023.29% of the valve market will be comprised of various types of sluice valve.Our products are unable to compete with Chinese valves. Products from China have been ruling almost every industrial sector in the world at global level from many years. Chinese sluice valves are very competitive in terms of pricing as compared to sluice valves manufactured in other nations across the globe.China is giving very tough competition to Indian Sluice valve industry. Sluice valves made in China are much cheaper as compared to Sluice valves manufactured in India.

TECHNICAL DETAILS

1. Sector related to Sluice Valve : Water and Waste Water sector.

2. End Users of Sluice Valve :

a) Building Construction

b) Industries

c) Drinking Water Departments

d) Jal Board/Jal Nigam

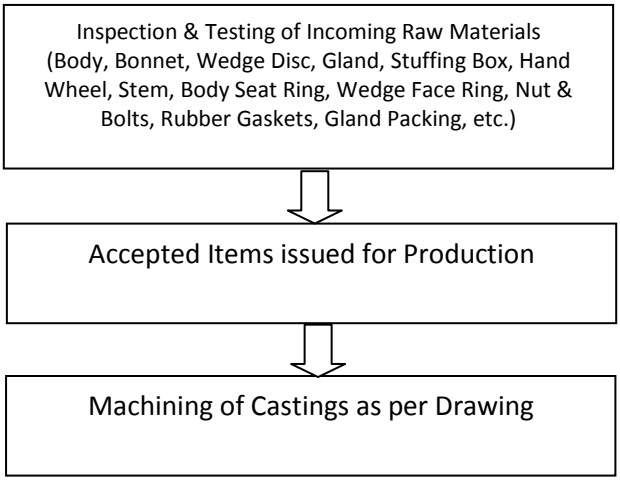
e) Water Treatment Plants

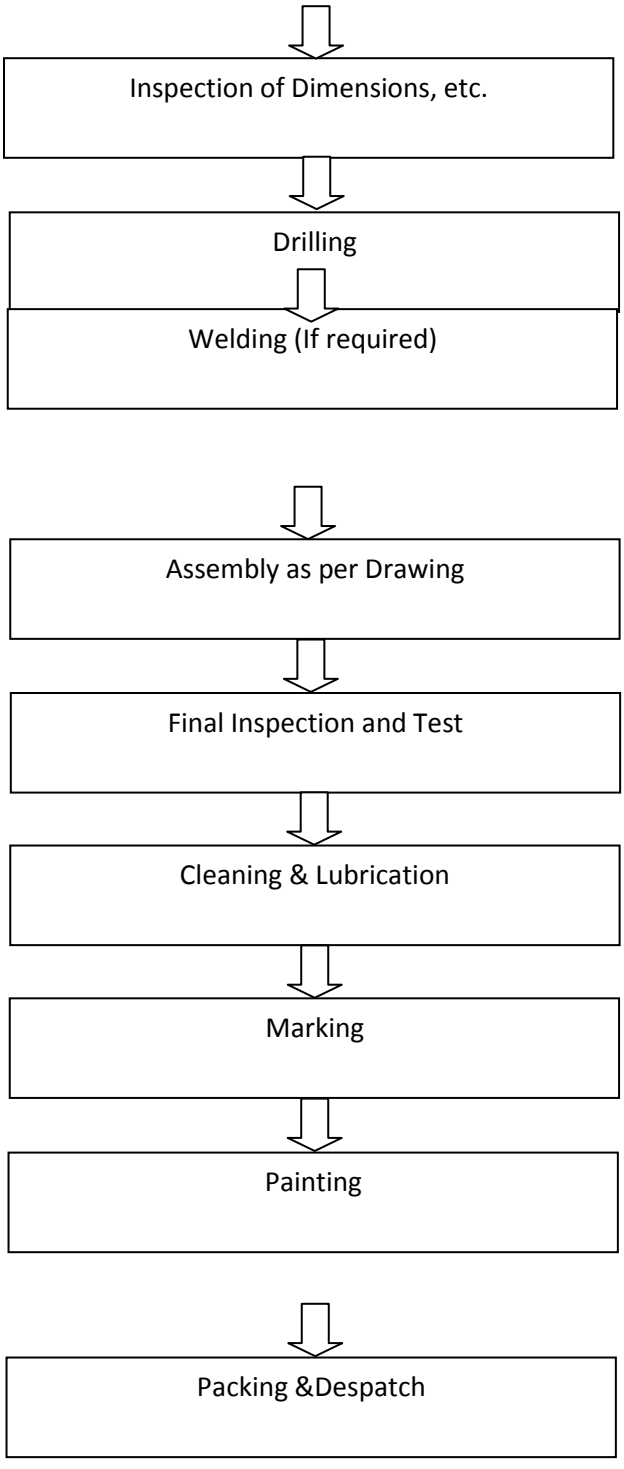
f) Municipal Corporations

g) Smart City Projects

3. Governing International Specifications :IS:14846&BS:5163/BS:5150

4. Manufacturing Process Flow Chart for Sluice Valve :





5. Qualitative Parameters of Sluice Valve :

S.No.	Component/Operation	Characteristics Checked	Category	Type/Method of Check	Extent of Check (%)	Reference Document	Acceptance Norms	Format of Records	Remarks
1	**Incoming Material Inspection**								
1.1	Body, Gland, Bonnet, Wedge, Cover, Gear Box, Hand Wheel, etc.	Physical Property	Major	Mechanical	One per Heat	CI IS 210 GR FG 200	CI IS 210 GR FG 200	Test Report	
		Visual & Dimension	Major	Visual & Measurement	100%	As per IS 14846/As per approved Drg.	As per IS14846/As per approved Drg.	Inspection Report	
1.2	Spindle	Physical & Chemical	Major	Mechanical & Chemical	1 Bar per Lot	IS 6603/Approved Drg.	As per IS 6603/As per approved Drg.	Lab Report	
1.3	Body Seat/Wedge Seat, Spindle Nut	Physical & Chemical	Major	Mechanical & Chemical	One per Heat	LTB IS 318 LTB-2/Approved Drg.	LTB IS 318 LTB-2/Approved Drg.	Test Report	
2	**In Process Inspection**								
2.1	Various Components 1.1 to 1.3	Dimensions, Visual	Mjor	Visual & Dimensional	100%	As per Drgs./Spec.	As per Drgs./Spec.	Inspection Report	
2.2	N.D.T on Spindle	D.P Test on Forged Portion	Major	D.P Test after Machining	10% Random	As per IS 14846/As per approved Drg.	As per IS 14846/As per approved Drg.	Inspection Report	
3	**Final Inspection**								
3.1	Hydrostatic Body & Seal Test	Hydrostatic Body & Seal	Critical	Visual,Hydraulic Test, Seat leak test &	100%	As per IS 14846/As per	As per IS 14846/As per	Test Reports	10% Hydro test

	Test		Body leak test		approved Drg.	approved Drg.		witness by Buyer
3.2	Overall Dimensions	Major	Visual	100%	As per Drgs./Spec.	As per Drgs./Spec.	Inspection Report	

6. License Required for Sluice Valve Manufacturing :IS 14846:2000

7. Machines &Equipment Required for Sluice Valve Manufacturing : Lathe machine, Radial drilling machine, Milling machine, Assembly table, Lapping machine, Painting, etc.

8. Test Facilities Required for Sluice Valve Manufacturing : Hydrostatic Test as per IS 14846:2000

9. Whether Technology existsto Manufacture Sluice Valve : Yes

10. Suggested Modern Technology available in the Market for Implementation :CNC Machines

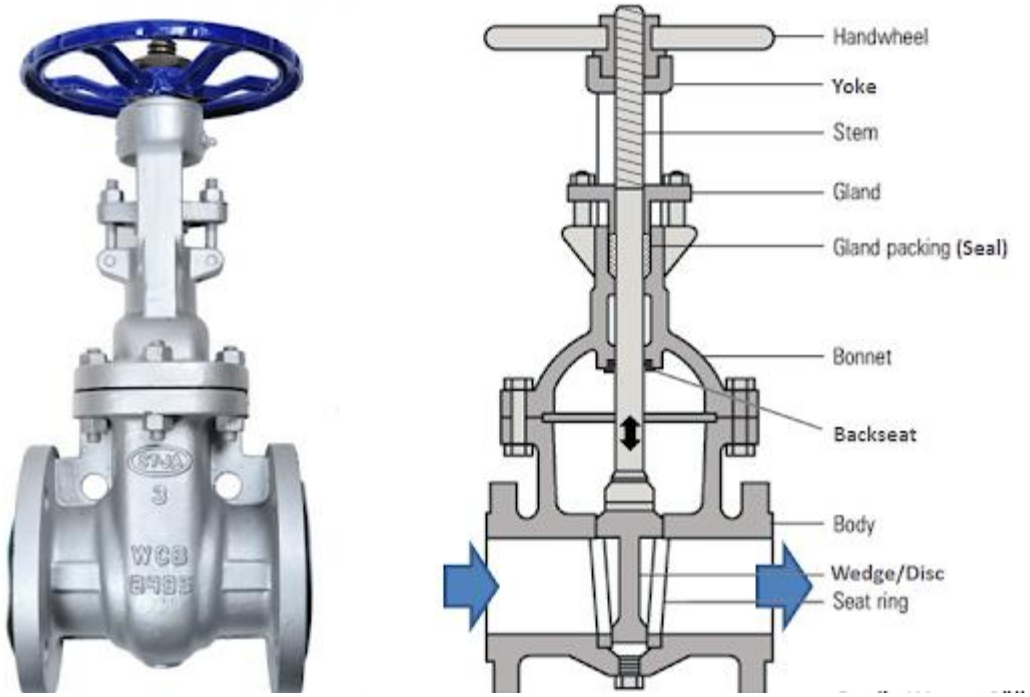
11. Raw Material Required and their Availability : Cast Components.There are many suppliers in the areas where Valve manufacturing units are concentrated. However, there is hardly any such casting units in Bihar.

12. Covering Raw Material Standards : Indian/International Standards- IS 210 FG 200

PROJECT REPORT

1. INTRODUCTION

Sluice Valves are used for control of flow of liquid. It is essential in water supply system. It regulates the flow of water and minimizes the wastage of water. The item is a reserved item at S.No. 257 in the List of Items Reserved for Purchase from MSEs which needs to be procured by CPSUs and Government Departments from the Indian MSEs only. This project report envisages the production of cast iron Sluice Valve. The product falls in water as well as waste water sector. Jal Jeevan Mission – HarGhar Jal of Government of India has created demands for this product in domestic market. Sluice valve may play very important role in making India "Atmanirbhar".



Sluice Valve Diagram

2. MARKET POTENTIAL

The demand of Sluice Valve is increasing in domestic market. Jal Jeevan Mission – HarGhar Jal of Government of India has created demands for this product in domestic market. Global market of Sluice valve is anticipated to rise at a considerable rate in near future. Industrialization and urbanization is likely to fuel the demand for Sluice valve in the coming years.

The COVID-19 pandemic has caused economic instability across various industries in the world. Hence imports and exports may face limitations. At present Sluice valve is mostly imported from China. MSEs may supply good quality of Sluice valves to the end users and play a role in reducing the import and become partner of "Atmanirbhar

Bharat". India is a low cost manufacturing country. Hence there is scope of exporting the item in various countries.

In domestic market the main customers of the product are Delhi Jal Board, Delhi Development Authority, Delhi State Industrial Development Authority, Water Works of various states, Buildingcontruction utilities, Industries, Drinking Water Departments, Sanitation Departments, etc.

3. BASIS AND PRESUMPTIONS

1. The unit will run on single shift basis @ 8 hrs per day & 300 days in a year.
2. The rate of interest on Bank Loan will be 11% p.a.
3. The repayment period is 6 years with one yearmoratorium.
4. The unit will utilize 60%, 70% & 80% capacity in the 1^{st} ,2^{nd}&3^{rd} year respectively.
5. Labour charge as per Minimum Wages Act.
6. Cost of Plant & Machinery and Raw Materials may vary from place to place.
7. All projected financial statements for next five years may have variation from 5-10 % in actual practice.

4. IMPLEMENTATION SCHEDULE

S.No.	Activities	Duration
1	Project Report Preparation and Submission in Bank	2 Weeks
2	Sanction of Bank Loan	3 Weeks
3	Construction of Shade & Building	4 Weeks
4	Procurement of Fixed Assets, Electrification &	6 Weeks

	Installations	
5	Arrangement of Raw material, Staffs and Labour	3 Weeks
6	Trial Production	3 Weeks
	Total Duration	**21 Weeks**

5. QUALITY STANDARDS

Quality and Standards of Sluice Valve will be as per IS : 14846 : 2000. Product manufacturing license to be obtained from Bureau of Indian Standards before commencement of production. The product is to be manufactured as per the approved drawing of the customer.

6. ANNUAL PRODUCTION CAPACITY

At 100% Capacity : 6000 Nos.

1st Year at 60% Capacity : 3600 Nos.

2nd Year at 70% Capacity : 4200 Nos.

3rd at 80% Capacity : 4800 Nos.

4th Year at 80% Capacity : 4800 Nos.

5th Year at 80% Capacity : 4800 Nos.

7. MOTIVE POWER REQUIREMENT : 45 KW

8. POLLUTION CONTROL

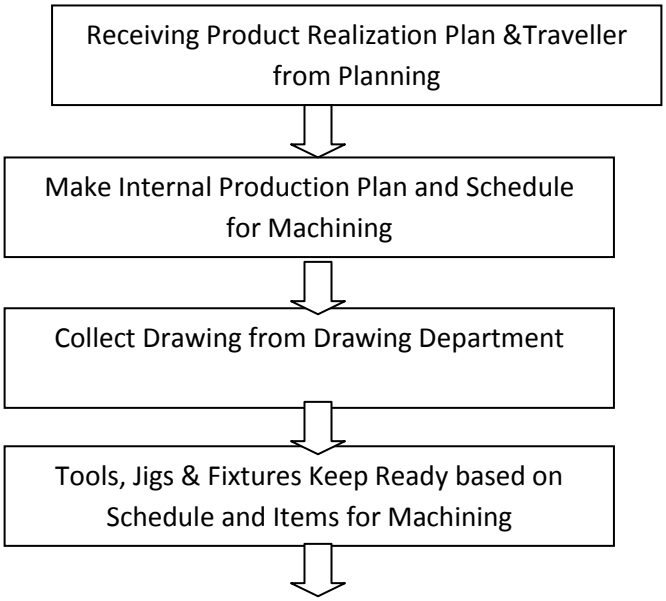
The manufacture of Sluice Valve does not involve pollution. Hence it is very easy to obtain No Objection from Pollution Control Board.

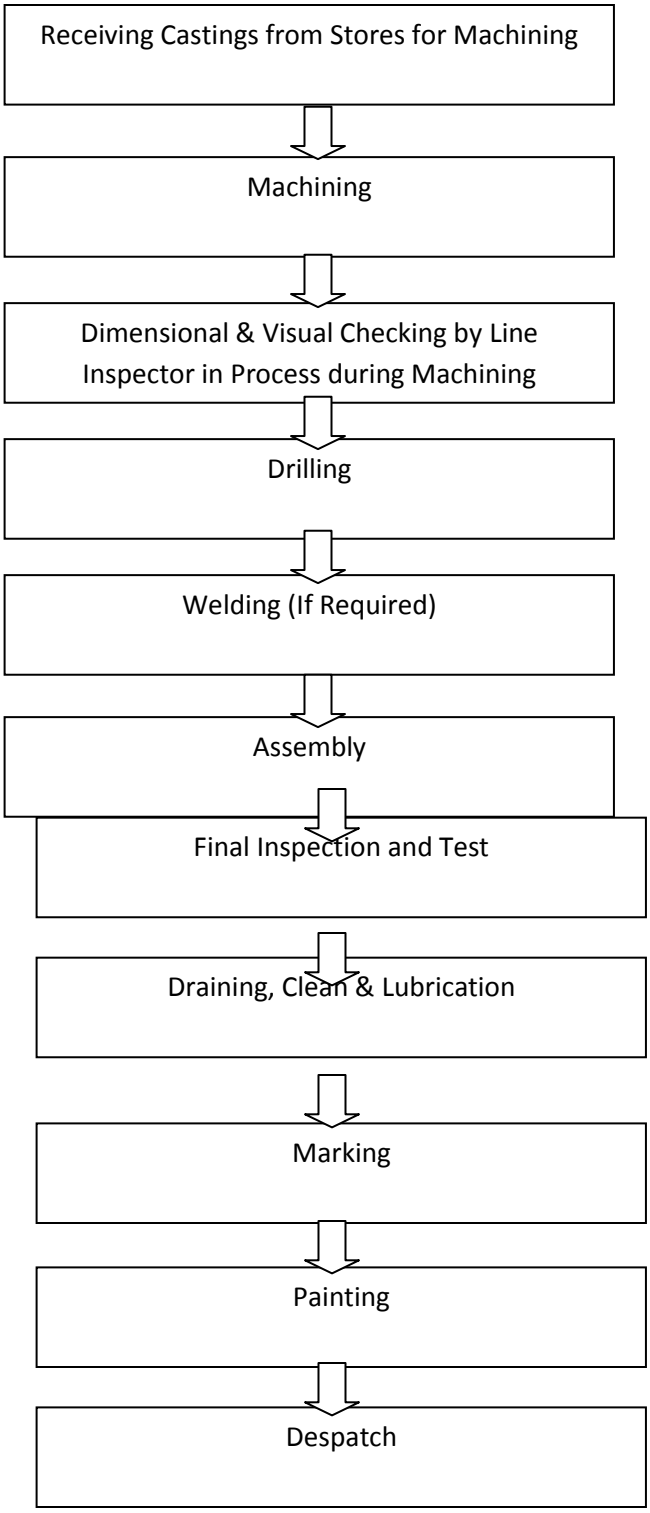
9. ENERGY CONSERVATION

Energy conservation is essential for any manufacturing unit to become more competitive in Global market. Following steps may be taken to implement energy conservation in the unit :-

1. The staffs/workers/management have to adjust their day to day behaviour.
2. Use smart power strips.
3. Energy efficient machineries and appliances need to be purchased.
4. Unit must have Energy Management System.
5. Preventive maintenance of machines will help in making the unit energy efficient.

10. MANUFACTURING PROCESS FLOW CHART





11. PLANT LOCATION & LAYOUT

Following points must be kept in mind while selecting plant location and layout:-

1. The unit should be located near foundry cluster/units to get the smooth and regular supply of castings.
2. All infrastructure facilities should be available, particularly road, electricity and connectivity.
3. Banks and other Financial Institutions must be located within 50 Km radius.
4. Spacing of Machines and Equipment should be in sequence.
5. Start and End operation should be connected with raw material depot and finished good store.
6. Internal roads required for free movement of materials.

12. FINANCIAL ASPECTS

12.1 FIXED CAPITAL

A. Land & Building

Total Area	25,000 Square Feet
Shed : 60'X40' = 2400 Sq. Ft. @ Rs 500/-	Rs 12,00,000
Building : 30'X20' = 600 Sq. Ft. @ 1000	Rs 6,00,000
Other Civil Constructions : L.S	Rs 2,00,000
Total	**Rs20,00,000**

B. Machines &Equipments

S.No.	Description	Indigenius/ Imported	Qty.	Amount (Rs)
1	CNC Centre Lathe Heavy Duty, Centre to Centre distance - 1000mm, Centre height – 260mm complete with all accessories	Ind	1	12,00,000
2	CNC Centre Lathe Medium Duty, Centre to Centre distance – 1000mm, Centre height – 260mm complete with all accessories	Ind	1	10,00,000
3	Radial Drilling Machine Medium Duty, Capacity – 32mm complete with all accessories	Ind	1	4,00,000
4	Universal Milling Machine, Working surface 850x200x380mm complete with all accessories	Ind	1	8,00,000
5	Drilling Machine, Capacity – 20mm	Ind	1	1,00,000
6	D.E Bench Grinder, 200mm Wheel dia with all accessories	Ind	1	1,00,000
7	Lapping Machine, Working surface – 900mm with all accessories	Ind	1	3,00,000
8	Hand Cutters/Pneumatic Grinders	Ind	L.S	1,00,000
9	D.G Set, 30 KVA	Ind	1	10,00,000
			Total	50,00,000
			GST @ 18%	9,00,000

Transportation, Installations & Electrifications @ 10%	5,00,000
Grand Total	**64,00,000**

C. Testing Equipment

S.No.	Description	Indigenius/Imported	Quantity	Amount (Rs)
1	Measuring Equipment, Guage& Weighing Machine, etc.	Ind	L.S	1,50,000
2	Hydraulic Pressure Testing Machine, 1000 PSI	Ind	1	50,000
3	Body/Flange Testing Facility	Ind	L.S	50,000
4	Universal Testing Machine	Ind	1 No.	4,00,000
5	Chemical Analysis Equipment	Ind		1,50,000
6	Mettalographic Testing Lab	Ind		1,00,000
			Total	**9,00,000**

D. Miscellaneous Fixed Assets

S.No.	Description	Indigenius/Imported	Quantity	Amount

				(Rs)
1	Fixtures/Jigs	Ind	L.S	50,000
2	Office Equipment/Working Benches	Ind	L.S	1,00,000
3	Office Furniture	Ind	L.S	1,00,000
4	Miscellaneous Tools	Ind	L.S	50,000
			Total	**3,00,000**

E. Preliminary & Preoperative Expenses

S.No.	Description	Amount (Rs)
1	License Fee	50,000
2	Registration Fee	40,000
3	Legal Fee	40,000
4	Security Deposit	40,000
5	DPR Preparation	25,000
6	Conveyance	25,000
7	Clearances & Permission	50,000
8	Miscellaneous Expenses	30,000
	Total	**3,00,000**

Total Fixed Capital

S.No.	Description	Amount (Rs in Lakh)
A	Land & Building	20

B	Machines &Equipments	64
C	Testing Equipment	9
D	Miscellaneous Fixed Assets	3
E	Preliminary & Preoperative Expenses	3
	Total	**99**

12.2 WORKING CAPITAL

A. Raw Materials (Per month)

S.No.	Particulars	Indigenius/Imported	Quantity	Amount (Rs)
1	C.I Sluice Valve Casting	Ind	38 MT @ Rs 100/Kg	38,00,000
2	Spindle, Nut Bolt, Bonnet, Sealing Gaskets, Chemicals, Other components as per BIS Standards	Ind	L.S	17,00,000
3	Other Consumables	Ind	L.S	20,000
			Total	**55,20,000**

B. Salary & Wages (Per month)

S.No.	Particulars	Quantity	Amount (Rs)
1	Manager	01 No.	36,000
2	Supervisor	01 No.	20,000
3	Skilled Worker	04 Nos.	60,000
4	Helper	06 Nos.	48,000

5	Peon cum Watchman	02 Nos.	15,000
6	Clerk cum Accountant	01 No.	15,000
		Total	1,94,000
		Pre-requisites (Approx.)	32,000
		Total	**2,26,000**

C. Utilities (Per month)

S.No.	Description	Amount (Rs)
1	Power, 4500 KWH @ Rs 9.5 per Unit	42,750
2	Water	2,250
	Total	**45,000**

D. Other Contingent Expenses (Per month)

S.No.	Description	Amount (Rs)
1	Transportation	70,000
2	Telephone/Internet	2,000
3	Repair & Maintenance	5,000
4	Insurance	4,000
5	Marketing & Advertisement	10,000
6	Postage/Stationery	3,000
7	Miscellaneous Expenses	6,000
	Total	**1,00,000**

E. Inventory in Pipeline (Per month)

S.No.	Description	Amount (Rs)
1	Work in Process for One Week	15,00,000
2	Finished Goods Stock for One Week	18,00,000
3	Bills Receivables for One Week	20,00,000
	Total	**53,00,000**

Total Working Capital (Per month)

S.No.	Description	Amount (Rs in Lakh)
A	Raw Materials	55.20
B	Salary & Wages	2.26
C	Utilities	0.45
D	Other Contingent Expenses	1
D	Inventory in Pipeline	53
	Total	**112**

Means of Finance of Working Capital (Per month)

S.No.	Description	Amount (Rs in Lakh)
A	Promoter's Contribution @ 25%	28
B	Cash Credit Loan	84
	Total	**112**

12.3 TOTAL PROJECT COST

A. Total Project Cost*

S.No.	Description	Amount (Rs in Lakh)
1	Fixed Capital	99
2	Working Capital Margin @ 25%	28
3	Contingencies (Approx.)	3
	Total	**130**

* In Bankable Project Report (DPR) only Working Capital Margin along with Fixed Capital & Contingencies are taken in calculation for Project Cost as per norms.

B. Means of Finance

S.No.	Description	Amount (Rs)
1	Promoter's Contribution @ 25%	32.50
2	MSME Capital Subsidy/Other Subsidy @ 15%	10.50
3	Term Loan	87
	Total	**130**

12.4 FINANCIAL ANALYSIS

A. Annual Cost of Production

S.No.	Particulars	Monthly Cost (Rs	Annual Cost (Rs

		in Lakh)	in Lakh)
1	Raw Materials	55.20x12	662.40
2	Salary & Wages	2.26x12	27.12
3	Utilities	0.45x12	5.40
4	Other Contingent Expenses	1x12	12
5	Depreciation	20.00x5%	1
		76.00x10%	7.60
6	Interest	87.00x10%	8.70
		84.00x11%	9.24
		Total	**733.46**

B. Annual Turn Over

S.No.	Particulars	Quantity	Amount (Rs in Lakh)
1	Sale of Sluice Valve (Large)	1,500 Unit @ Rs 26,000	390
2	Sale of Sluice Valve (Medium)	2,000 Unit @ Rs 17,000	340
3	Sale of Sluice Valve (Small)	1,300 Unit @ 10,000	130
4	Sale of Scrap	L.S	15

Total	**875**

C. Annual Profit

S.No.	Description	Amount (Rs in Lakhs)
1	Annual Turn Over	875
2	Annual Cost of Production	733.46
3	Annual Gross Profit	141.54
4	Annual Selling Expenses	51.54
5	Annual Operating Profit	90
6	Annual Income Tax for MSEs	27
	Annual Net Profit	**63**

D. Annual Rate of Return (R.O.R)

S.No.	Description	Amount (Rs in Lakhs)
1	Annual Net Profit	63
2	Total Capital Investment	130
Annual Rate of Return = {(Annual Net Profit)*100}/Total Capital Investment		**48.46%**

E. Break Even Point (B.E.P)

S.No.	Description	Amount (Rs in Lakhs)
Fixed Cost		

1	Total Annual Depreciation	8.60
2	Total Annual Interest on Term Loan	8.70
3	40% of Annual Salary & Wages and Other Expenses	15.65
	Total Fixed Cost	**32.95**
Break Even Point(B.E.P) = {(Fixed Cost)*100}/{Fixed Cost + Net Annual Profit}		**34.35%**

F. Loan Repayment Schedule

Term Loan Amount	87
Repayment Period	6 Years
Annual Principal Instalment Amount	14.50
Annual Rate of Interest	10%
Moratorium Period	1 Year

Repayment Schedule

Year	Term Loan	Instalment	Interest	EMI
1st	87	NIL	8.70	8.70
2nd	87	14.50	8.70	23.20
3rd	72.50	14.50	7.25	21.75
4th	58	14.50	5.80	20.3
5th	43.50	14.50	2.90	17.4
6th	29	14.50	2.90	17.4
7th	14.50	14.50	1.45	15.95

Note : Bank may fix the EMI as per their norms @ latest rate of interest applicable as per RBI Guidelines.

G. Debt Service Coverage Ratio (DSCR)

S.No.	Description	Amount (Rs in Lakhs)
1	Annual Net Profit	63
2	Total Annual Depreciation	8.60
3	Net Surplus (1+2)	71.60
4	Total Annual Interest on Term Loan	8.70
5	Total "A" (3+4)	80.30
6	Annual Term Loan Principal Instalment Amount	14.50
7	Total "B" (6+4)	23.20
Debt Service Coverage Ratio (DSCR) = Total "A"/Total "B"		**3.46**

H. Year-wise Capacity Utilization, Turn Over & Net Profit

Year	Capacity Utilization (%)	Annual Turn Over (Rs in Lakh)	Annual Net Profit (Rs in Lakh)	Annual Cummulative Net Profit (Rs in Lakh)
1st	60%	875	63	63
2nd	70%	1020.83	73.50	136.50
3rd	80%	1166.66	84	220.50
4th	80%	1166.66	84	304.50
5th	80%	1166.66	84	388.50

I. Year-wise Capacity Utilization, Working Capital, Cash Credit Loan &Interest on Cash Credit Loan

Year	Capacity Utilization (%)	Working Capital (Rs in Lakh)	Cash Credit Loan (Rs in Lakh)	Interest on Cash Credit Loan (Rs in Lakh)
1st	60%	112	84	9.24
2nd	70%	130.66	98	10.78
3rd	80%	149.33	112	12.32
4th	80%	149.33	112	12.32
5th	80%	149.33	112	12.32

J. Year-wise Depreciation on Machines &Equipments (M&E) and Miscellaneous Fixed Assets (MFA)

Year	W.D.V of M&E and MFA	Depreciation @ 10% (A)	Closing Value of W.D.V
1st	76	7.60	68.40
2nd	68.40	6.84	61.56
3rd	61.56	6.16	55.40
4th	55.40	5.54	49.86
5th	49.86	4.99	44.87

K. Year-wise Depreciation on Shed & Building

Year	W.D.V of Shed & Building	Depreciation @ 5% (B)	Closing Value of W.D.V
1st	20	1	19
2nd	19	0.95	18.05

3rd	18.05	0.90	17.15
4th	17.15	0.86	16.29
5th	16.29	0.81	15.48

L. Year-wise Total Depreciation

Year	A	B	Total
1st	1	7.60	8.60
2nd	0.95	6.84	7.79
3rd	0.90	6.16	7.06
4th	0.86	5.54	6.40
5th	0.81	4.99	5.80

12.5 BALANCE SHEET (PROJECTED)

A. Liabilities (Rs in Lakh)

S.No.	Particulars	Preoperative	1st year	2nd Year	3rd Year	4th Year	5th Year
1	Promoter's Contribution	32.50	32.50	32.50	32.50	32.50	32.50
2	Subsidy	10.50	10.50	10.50	10.50	10.50	10.50
2	Term Loan	87	87	72	58	43	29
3	Cash Credit Loan	84	84	98	112	112	112
4	Reserve & Surplus	--	63	136.50	220.50	304.50	388.50

Total	**214**	**277**	**349.50**	**433.50**	**503**	**572.50**

B. Assets (Rs in Lakh)

S.No.	Particulars	Preoperative	1st year	2nd Year	3rd Year	4th Year	5th Year
1	Gross Fixed Assets	96	96	87.40	79.61	72.55	66.15
2	Depreciation	--	8.60	7.79	7.06	6.40	5.80
3	Net Fixed Assets	96	87.40	79.61	72.55	66.15	60.35
4	Current Assets	112	112	130.66	149.33	149.33	149.33
5	Preliminary & Preoperative	3	--	--	--	--	--
6	Cash & Bank Balance	3	77.60	139.73	211.62	287.52	362.82
Total		**214**	**277**	**350**	**433.50**	**503**	**572.50**

13. DETAILS OF TESTING FACILITIES

1. JBS Testing Solutions, Jalandhar, Punjab
2. MSME Testing Centre, Delhi, Mumbai, Kolkata, Chennai
3. National Test House, Mumbai, Maharashtra
4. Unique Test House, Mohali, Punjab
5. Pandya Quality Services, Makarba, Ahmendabad
6. Athena Engineers, Moulivakkam, Chennai
7. Material Testing Services – Scientific & Industrial Testing & Research Centre, Coimbatore

8. S.B Engineers, Vadodara, Gujrat
9. M.S Enterprises, Balaji Nagar, Chennai
10. Majoka Engineering Services Pvt. Ltd., Gurgaon

14. DETAILS OF RAW MATERIAL SUPPLIERS

From nearby manufacturers

15. DETAILS OF MACHINERY SUPPLIERS

1. Patel Precision Works, Jogeshwari, Mumbai, Maharashtra
2. A.R International, Mayapuri Industrial Area, Phase – 2, New Delhi
3. G.M.T Engineers Pvt. Ltd., Ashok Nagar, Chennai
4. Jyoti CNC, Metoda, Rajkot, Gujrat
5. Rekha Engineering Works, Surendra Nagar, Gujrat
6. Elicon Engineering Works, Jangleshwar, Rajkot
7. Tirupati Machine Tools, Chikhali, Pune
8. Pathak Industries Pvt. Ltd., Ludhiana
9. Shanti Manufacturers, Rajkot
10. Yug Machine Tools, Gondal Road, Rajkot
11. Champion Engineering Works, Delhi

SCHEMES & CONSULTANCY SERVICES

A. EXISTING SCHEMES

The details of existing schemes available for MSMEs are given below :-

(a) Procurement & Marketing Support Scheme : Sluice valve manufacturing industries of MSE sector may get benefit of Procurement and Marketing Support Scheme of DC(MSME), New Delhi. This will help in exploring new market and retaining the existing ones. Under this scheme, there is provision of promoting new market access initiatives like participation in National/International Trade Fairs/Exhibitions.

(b) CLCSS : Upcoming new unit/existing unit of MSE sector manufacturing Sluice valve may get benefit of Credit Linked Capital Subsidy Scheme for modernization/technology upgradation. This may help the units to become more competitive in global market.

(c) MSE-CDP Scheme : Sluice valve manufacturers may also get benefit of MSE-Cluster Development Programme Scheme for setting up of Common Facility Centre/Infrastructure Development.

(d) DC(MSME) Capacity Building of MSMEs in Modern Packaging Techniques : This scheme may be used by domestic as well as exporting units.

B. CONSULTANCY SERVICES

(a) PPDC, Agramay provide Technical consultancy. It may also provide casted/forged component to the units against the requirement of Sluice valve manufacturers.

(b) MSME-Tool Rooms may provide Machining facilities needed during manufacturing of Sluice valve.

(c) MSME Testing Centers may provide Testing facilities.

(d) MSME-DIs may provide Techno-managerial consultancy.