PROJECT PROFILE FOR MANUFACTURE OF

AGRICULTURAL IMPLEMENTS

NAME OF PRODUCT	Agricultural Implements
PRODUCTION CAPACITY	1250 NOS
QTY. & VALUE (PA)	Rs.248 LACS
MONTH & YEAR OF PREPARATION	DECEMBER,2010
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PROJECT REPORT FOR MANUFACTURE OF AGRICULTURAL IMPLEMENTS Section I

PROJECT & ITS INTRODUCTION

The proposed project is for establishment of an industrial unit for manufacture of Tractor drawn Agricultural Implements like Tillers/cultivators & Disc harrows etc. These implements are mainly employed for the preparation of soil bed for sowing & burial of organic substances as well as loosening & aerating the soil in the agricultural fields

MARKET POTENTIAL

The proposed products –Tillers & Disc harrows are primarily the tractors drawn agricultural implements that are mainly employed for preparation of soil bed for sowing & burial of organic substances as well as loosening & aerating the soil in the agricultural fields. These are heavy duty & economical implements employed by the farmers all over the world for soil bed preparation. Since India is high in the Agriculture base there is a big demand of these implements in the entire country including Jammu & Kashmir particularly in the plain areas like districts Kathua, Jammu & Samba. Presently there is no organized manufacturer of these products in the state & there is a tremendous gap in demand & supply since most of the products are being supplied by the units in neighboring states-Punjab & Haryana. Therefore there is a very good market potential for the production of the Agricultural implements.

Section II

MANUFACTURING PROCESS, TECHNICAL ASPECTS & BASIS

The manufacturing of proposed products involve various manufacturing processes like cutting of steel sections, fabrication, welding, drilling, turning making sub assemblies, fitting & final assembly etc where steel sections & other parts/components like tynes, springs & fasteners be out sourced & purchased as per own design & specifications.

. The manufacturing also involves inspections at various stages till they are finally assembled & packed as per their Quality assurance standards/plans. The following are the presumptions made while preparing this project report.

- The establishment of unit involves an electrical connection of 60 KW
- The viability calculations in the project are based on the 100% capacity utilization of the project.

• While preparing the project, the following Annual production capacity has been considered

PROPOSED ANNUAL PRODUCTION CAPACITY

S. No.	Name of Item	Qty. in Nos	Avg Rate (Rs in thousands)	Amount (Rs. in Lacs)	
1	Spring Type Tillers - 9 Tynes	100	10	10	
2	Spring Type Tillers - 11 Tynes	150	12	18	
3	Rigid Type Tillers - 9 Tynes	150	8	12	
4	Rigid Type Tillers - 11 Tynes	100	9	9	
5	Disc Harrows Plane- 12 Discs	100	24	24	
6	Disc Harrows Plane - 14 Discs	100	26	26	
7	Disc Harrows Plane - 16 Discs	100	28	28	
8	Disc Harrows Trailed offset- 12 Discs	100	25	25	
9	Disc Harrows Trailed offset -14 Discs	100	27	27	
10	Disc Harrows Trailed offset -16 Discs	50	28	14	
11	Mounted Offset Disc harrow -12 Discs	100	26	26	
12	Mounted Offset Disc harrow -14 Discs	50	28	14	
13	Mounted Offset Disc harrow -16 Discs	50	30	15	
	Total				

Section III

LAND, BUILDING & PROPOSED SECTIONS

• Land

Plot of 1500 Sq.Yd.(in any industrial Estate at its prevailing average price) of Rs. 1558 per Sq.Yds. = Rs 23.37 Lacs

• Building

Plot area to be covered for construction = 60% = 607 Sq. Mts.

Building to be constructed with following sections:

- Incoming, outsourced & BO items Stores
- Incoming Inspection area
- Workshops for Press section, Welding section, Machining section
- Paints & primer application shop
- Sub assemblies sections for Tillers & Disc harrows
- Final assembly section
- Design & development and Quality Control Section
- Marketing & Purchase Sections
- Office block, Accounts & Administrative Section
- Packaging Section
- Finished Goods Store
- Parking Area and open space
- Chowkidar room

The estimated amount involved for construction of the site as per above plan is as below:

S. No.	Work Involved	Area (Sq. Mts.)	Rate per Sq. Mts. (in Rs.)	Amount (Rs. in Lacs)
1	RCC Construction with Elect/Water/Sanitary fittings	150	4500.00	6.75
2	Sheds with asbestos/ other sheets roof	455.5	1800.00	8.20
3	Boundary Wall, Gates & lighting etc.	-	1	1.00
		To	tal Rs	15.95

Grand Total=Rs. 23.37 Lacs + Rs.15.95 Lacs = Rs. 39.32 Lac

Section IV

MACHINERY, EQUIPMENTS & INFRASTRUCTURES

S. No.	Name of Machine	Quantity (in Nos.)	Cost (Rs. in Lacs) inclusive of taxes, transportation, electrical motors & accessories etc.
A Pr	roduction Machines/ Equipments		
1	Power Press pillar type100 tons cap	1	
2	Power Press pillar type 50 tons cap	1	
3	Lathe Machine 6 ft GOB type	2	
4	Mig Welding Set	3 sets	
5	Pillar type drilling machine 30 mm	1	
6	Pillar type drilling machine 25 mm	1	
7	Bench Grinders & Bench Drilling Machines	2 each	17.00 lacs
8	Lathe machine light duty 4.5 ft	2no	
13	Air compressor 100 PSIG	1	
14	Paint booth cum Oven	1	
15	Tools & Dies, Hand tools, Jigs & fixtures etc	-	
16	Diesel Generator, 50 KVA	1	
B. T	esting Machines & QC Equipments		
1	Inspection & measuring instruments, Jigs & Gauges	-	0.30 Lacs

Other Infrastructures

Pre-Operative Expenses

S.	Name of Machine	Quantity	Cost
No.	Name of Machine	(in Nos.)	(Rs. in Lacs)

1	Manpower/ Professionals	-	
2	Conveyance & Communication Expenses	-	0.50
3	Miscellaneous Expenses	-	

Installation & Electrification Expenses

S. No.	Activity	Quantity (in Nos.)	Cost (Rs. in Lacs)
1	Installation & Electrification		0.70
	Expenses for machines & equipments	-	0.70

Office Equipments etc.

S. No.	Equipments	Quantity (in Nos.)	Cost (Rs. in Lacs)
1	Office equipments, gadgets, computers & furniture etc.	1	1.50

Grand Total - Rs 20.00 Lac

Section V HUMAN RESOURCE REQUIREMENT

7.0 <u>Staff & Personnel per Month</u>

S. No.	Designation	Nos.	Amount/ Salary per month
1	Manager	1	
2	Marketing / Sales Executive	2	
3	Supervisor/ Foreman	2	Rs.1. 20 Lacs
4	Accountant/ Computer Operator	1	Rs.1. 20 Lacs
5	Skilled Workers	9	
6	Semi-Skilled Workers/ Helpers & Peon etc.	9	
	Perks/Welfare Expenses		0.15
	Total		1.35

Section VI

OTHER RECURRING EXPENSES & WORKING CAPITAL

Raw Materials Requirement per Annum

S. No.	Item	Amount (Rs. in Lacs)
1	Steel sections, rods/bars, channels, angles, flats, forgings &CI castings etc	
2	Tynes, Springs, Discs, Fasteners Hardware, Bearings	190.00
3	Welding consumables, Chemicals, Primers, Paints etc	
4	Packaging Materials	

Utilities per annum

S. No.	Item	Amount (Rs. in Lacs)
1	Electricity expenses	2.30
2	Water expenses etc.	0.10
3	Diesel expenses	0.60
	Total	3.00

Other expenses per annum

S. No.	Item	Amount (Rs. in Lacs)
1	Advertisement & Publicity	
2	Repair & Maintenance	
3	Selling Expenses	
4	Telephone & Communication	
5	Stationary & Postage etc.	2.00
6	Insurance	
7	POL & Consumables	
8	Other Misc. Expenses	
	Total	

Working Capital Requirement

S. No.	Particulars	Average Period	Amount (Rs. in Lacs)
1	Raw Materials in stock	1 week	3.96
2	Salaries, Utilities & other expenses in stock	2 months	2.70
3	Finished Goods in stock	half week	2.58
4	Work in process	1 week	4.44
5	Market/ Outstanding Debtors	2 week	10.35
Total			24.03

Section VII PROJECT COST & MEANS OF FINANCE

Total Capital Investment

S. No.	Item	Amount (Rs. in Lacs)
1	Land & Building	39.32
2	Cost of Machinery, Infrastructures and Pre- operatives	20.00
3	Working Capital Requirement	24.03
	Total	83.35

Means of Finance

S. No.	Item	Amount (Rs. in Lacs)	
A) Fi	A) Fixed Capital		
1	Term Loan on Land, Building, Machinery, Infrastructures & Pre-Operatives @ 75% from financial corporations/bank	44.50	
2	Own share/equity @ 25%	14.82	
Total		59.32	
B) Working Capital			
1	Working Capital loan in the shape of working capital limit @ 75% from bank	18.00	
2	Working Capital equity/own share @ 25%	6.03	
Total		24.03	

Section VIII COST OF PRODUCTION & SALES REALIZATION

Cost of Production per annum

S. No.	Item	Amount (Rs. in Lacs)
1	Cost of Raw Materials	190.00
2	Other recurring expenses i.e. salaries, other expenses and utilities	21.20
3	Interest on working capital loan @ 10% P.A	1.80
4	Interest on fixed capital @ 10% P.A	4.45
5	Depreciation on Machinery & Equipments @ 10% P.A averagely	2.00
6	Depreciation on building @ 5% P.A	0.80
	Total	220.25

Turnover & Sales Realization per annum

S. No.	Name of Item	Qty. in Nos	Avg Rate (Rs in thousands)	Amount (Rs. in Lacs)
1	Spring Type Tillers - 9 tynes	100	10	10
2	Spring Type Tillers - 11 tynes	150	12	18
3	Rigid Type Tillers - 9 tynes	200	8	16
4	Rigid Type Tillers – 11 tynes	100	10	10
5	Disc Harrows Plane- 12 Discs	100	24	24
6	Disc Harrows Plane - 14 Discs	100	26	26
7	Disc Harrows Plane - 16 Discs	100	28	28
8	Disc Harrows Trailed offset- 12 Discs	100	25	25
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11	Mounted Offset Disc harrow -12 Discs	100	26	26
12	Mounted Offset Disc harrow -14 Discs	50	28	14
13	Mounted Offset Disc harrow -16 Discs	50	30	15
			Total Rs.	248 Lacs
14	Scrap 8 Tons @ Rs.25000 per Ton		Rs.	2.00 Lacs

Section IX

PROFITABILITY, FINANCIAL VIABILITY RATIOS & ANALYSIS

Profitability per annum (before tax)

Particulars	Amount (Rs. in Lacs)
Sales Realization	250.00
Less (Cost of Production)	220.27
Net Profit per annum before tax Rs.	29.73 Lacs

Rate of Return on total Capital Investment

$$\frac{29.73}{83.35}$$
 x 100 = 35.66%

Rate of Return on Sales Realization

$$\frac{29.73}{250.00} \times 100 = 11.89\%$$

Break Even Analysis at 100% Capacity Utilization

Particulars	Amount (Rs. in Lacs)	
Fixed Cost per annum		
Interests	6.27	
Depreciations	2.80	
Insurance	0.24	
40% Salaries, Other expenses & utilities except insurance	8.16	
Total	17.47	

B.E.P - 37.01 %