S.J.M Vidyapeetha, Chitradurga

S.J.M College of Arts, Science and Commerce, Chandravalli, Chitradurga. 577-501 Accredited by NAAC with "A"

PROJECT REPORT OF SOLE PROPRIETORSHIP CONCERN

"CNC Laser Cutting Machine Manufacturing Industry"

SUBMITTED BY- 3rd B.Com

- 1. Kirana kumar M
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SUBMITTED TO

Dr. R.V HegadalAssociate Professor
Dept. of Commerce

: 2022-23:

PROJECT REPORT

ON

CNC LASER CUTTING MACHINE MANUFACTURING INDUSTRY

FOR

M.S. GALAXY ENGINEERING WORKS

PROP: SUFIYA KHANUM C. D/o. CHAND BASHA

UNIT AT: KSSIDC INDUSTRIAL ESTATE SHED No. 35, B.D. ROAD, CHITRADURGA

BANK: SBI, Chitradurga

Proprietor's Signature

PROJECT AT GLANCE

Unit name and Address	1	M/S GALAXY ENGINEERING WORKS KSSIDC INDUSTRIAL ESTATE SHED No. 35, B.D. ROAD CHITRADURGA
Proprietor's Name and Address	:	SUFIYA KHANUM C. D/o. CHAND BASHA
		Opp. TAJ KUSHION WORKS, HORPET, CHITRADURGA
Project		CNC LASER CUTTING MACHINE
Cost of Project		Rs. 69,96,000.00
Cost of Machinery	:	Rs. 43,76,000.00

BIO-DATA OF PROPRIETOR

Age	: 21 YEARS
Education	: B.Com
Category	: MINORITY
Experience	: 2 YEARS IN FABRICATION
Employment	: 3 PERSONS

COST OF PROJECT:-	-	
1) Building		Own
2) Machinery and Equipments		Rs.43,76,000/-
3)Working Capital	:	Rs.26,20,000/-
Total	:	Rs.69,96,000/-

MEANS OF FINANCE: MINOR	ITY CA	TEGORY:-
1) Proprietor Contribution 5%	:	Rs.3,49,800/-
2) Bank Loan	:	
a) Term Loan : 41,57,200		
b) W.Capital: 24,89,000		Rs.66,46,200/-
Total	:	Rs.69,96,000/-

MARGIN MONEY FORM DIC/35%:(24,48,600/-)

Margin money (subsidy) is related in favour of lonee. It will be kept in the term deposit receipts (TDR) for one year. No interest will be paid on the TDR and no interest will be charged on loan to the corresponding amount of TDR. Margin money will be credited to the borrowers loan account after three years from the date of first disbursement to the borrower by the bank. In case bank's advance goes before the one year period, due to reasons the margin money (subsidy) will be adjusted by the bank to liquidate the loan liability of the borrower either in part or full.

INTRODUCTION :-

SUFIYA KHANUM C. D/o. CHAND BASHA is to establish CNC LASER CUTTING MACHINERY, Shed No.35 KSSIDC Industrial area, B.D.Road, Chitradurga.

The place is having all the infrastructural facilities to establish the unit.

The unit will be established at its own building.

Required Machinery and equipments will be purchased at 43.76 lakhs.

The designed cut sheets will use at all fabrication works, i.e. base plates, gates, grill works, railings and all engineering works at Chitradurga District and near by 4-5 districts and whole sale dealers of Hardware shops.

The raw material required to the unit are Iron, Brass, Standard steel and Aluminum sheets. All the raw material will be purchased from Bengaluru whole sale agencies.

As the project place is located in Industrial area, it is having all the infrastructural facilities to the unit.

Water and current facilities available there.

Required workers will be available at Chitradurga.

BIO-DATA:

SUFIYA KHANUM C. D/o. CHAND BASHA resident of

Chitradurga is the Proprietor of the unit.

Proprietor is aged about 21 years.

Proprietor studied B. Com, belongs to Minority category.

Proprietor is an experienced person in the field of FABRICATION since 2 years at Chitradurga.

Proprietor is having regular contracts with the purchaser and whole sale traders, of all variety of sheets at Chitradurga, Davangere and other cities.

The designed cut sheets will use at all fabrication works, i.e. base plates, gates, grill works, railings and all engineering works at Chitradurga District and near by 4-5 districts and whole sale dealers of Hardware shops.

DEMAND:

The designed cut sheets will use at all fabrication works, i.e. base plates, gates, grill works, railings and all engineering works at Chitradurga District and near by 4-5 districts and whole sale dealers of Hardware shops.

RECOMMENDATION:

There is regular demand to all designed sheets at all cities.

The Industry technical feasible and economically viable. There is no such industry in between Bangalore & Hubli and hence recommended to implement.

Annexure - 1

SEQUENCE OF MANUFACTURING OPERATION

DIFFERENT TYPES OF SHEETS

MARKING ACCORDING TO SIZE

CUTTING

DESIGNING ACCORDING TO HOLE SIZE

PACKING

SALES

1/8//

RUNNING COST - N2

_	MODEL	F	3015		1Kw	MAX	Remarks
						Unit	
PRE	WORKING HRS /SHI	FT			7.50	Hrs	
1_					1.00	Nos	
2	NOS OF SHIFTS WORKING HRS / DA	· -			7.50	Hrs	
3					26.00	No.s	
4	NO OF DAYS / MONT				312.00	No.s	
5	NO OF DAYS / YEAR			_	2,340.00	Hrs	
6	NO OF HRS / YEAR			_	95%		
7	MACHINE UP TIME	NOV	_	-	80%		
8	OPERATOR EFFICIE	NCY	_	-	98%		
9	QUALITY RATIO			-	74%		
10	OEE		_	-	1.743	Hrs	
11	NET HRS / YEAR	-					
INV	ESTMENTS				37,76,000	INR	
12	ESTIMATED MACHIN		ANDED A	AT.	37,76,000	HAIS	
	CUSTOMER (WITHO	DDECCOR	_		6,00,000	INR	
	SCREW TYPE COMP ESTIMATED MACHIN	NE VALUE 14	NDED A	T	43,76,000	INR	
13	ESTIMATED MACHIN	NE VALUE- LA	HADED	3.1	0.000	0.0000000000000000000000000000000000000	
14	DEPRECIATION	,011		15%	6,56,400	INR	
			_	9%	3,93,840	INR	
15	INTEREST	NITEDEST CO	ST		10,50,240	INR	
16	DEPRECEATION & I	NIEKESIOO	01		449	INR	20%
17	MACHINE COST / HE	*	-		30	KW	
18	CONNECTED LOAD				1,60		
19	DIVERSITY FACTOR				24.00	KW	
20	UTILIZED LOAD			7.00	7.00	INR	
21	UNIT COST / HR			168.00	84.00	INR	4%
22	POWER COST / HR						
23	GAS CONSUMPTION	N / HR (N2)			2,400	INR	62%
20			TID	1 shift	250	INR	
24	1 OPERATER & 2 LA	BOUR COST	HR	1	250	INR	13%
	20K+15+15K			-	200	HAIS	1970
25	CONSUMABLE COS	T/HR			30.00	INR	1%
20					3,360	INR	1
26	TOTAL COST / HR				3,500	LIMIX	
27	INCOME					Turn Over	Marin/Day (INR)
	POWER SOURCE	Thickness (mm)	Cuttin (m/mi	g speed n)	Total/Hour (INR)		
	1KW	6	0		0	0	3,360

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Annexure - 3

O DEVOLUC

Material Cost	Rs.7,02,00,000	Total Rs.7,02,00,000
COST/KG	Rs.145	Total
Qty/ Hour 290 Days	4,68,000 Kg	
Qty/Hour	200 Kg	
Particulars	M.S.Sheet 1 mm 16 mm	
No Si	1)	

SALES REALISATION/290 DAYS

COST/KG Total Raw	Rs.225 Rs.8,95,95000	
Qty/ Hour 290 Davs	3,98.200 Kg	
Qty/Hour	200 Kg	
Particulars	Designed M.S. Cut sheets	
No.	1	

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Annexure - 4

COST OF PRODUCTION AND PROFITABILITY STATEMENTS (Rs. LKS)

No.	PARTICULARS	I YR	II YR	III YR	IV YR	V YR
	INSTALLED CAPACITY/KG	4,38,750	4,38,750	4,38,750	4,38,750	4,38,750
	CAPACITY UTILISATION(%)	80	85	06	96	100
ď	RAW MATERIALS	702	746	789.75	833.63	877.50
B.	CURRENT CHARGES	61	64.8	68.63	72.44	76.25
O.	LABOUR CHARGES	5.8	6.16	6.52	6.89	7.25
D.	UNIT OVER HEADS	36.1	37.29	39.49	41.68	43.88
	5% RAW MATERIAL COST					
ші	ADMINISTRATIVE OVER HEADS 4% SALES COST	35.84	38.09	40.32	42.56	44.80
H.	TRANSPORT EXP. 2% SALES	17.92	19.05	20.16	21.28	22.40
	TOTAL (A to F)	99.758	911.39	964.87	1,018.48	1072.08

Annexure - 5

WORKING CAPITAL ESTIMATE

SI No.	PARTICULARS	PERIOD/ DAYS	AMOUNT Rs. LKS)
1)	RAW MATERIAL	45	10.89
2)	LABOUR	45	0.9
3)	CURRENT	45	0.94
4)	INTEREST	45	0.65
5)	BILLS RECEIVABLE		12.73
	TOTAL		26.20

Note 1) Working days: 290 days in a year.

2) 1st Year costs are considered to calculate working capital requirements.

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Annexure - 6

TERM LOAN REPAYMENT

Loan: Rs.43.76 LKS

Int. Rate: 10% P.A

OPTG. Year	Installments QRTLY	Balance QRTLY	interest	Annual Install	Annual
Cai	2.19	41.57	1.10		
	2.19	39.38	1.09		
	2.19	37.19	1.09		
	2.18	35.01	1.09	8.75	4.37
11	2.19	32.82	0.88		
	2.19	30.63	0.88		
	2.19	28.44	0.87		
	2.18	26.26	0.87	8.75	3.50
III	2.19	24.07	0.66		
	2.19	21.88	0.66		
	2.19	19.69	0.66		
	2.18	17.51	0.65	8.75	2.63
IV	2.19	15.32	0.44		
	2.19	13.13	0.44		
	2.19	10.94	0.44		
	2.18	8.76	0.43	8.75	1.75
V	2.19	6.57	0.22		
	2.19	4.38	0.22		
	2.19	2.19	0.22		
	2.18	Nil	0.22	8.75	0.88

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Annexure - 7

WORKING CAPITAL REQUIREMENT

Loan: Rs.26.20 LKS

Int. Rate: 10% P.A.

Annual	Annual Install	interest	Balance QRTLY	Installments	OPTG.
		0.73	19.65	6.55	1
		0.72	13.10	6.55	
		0.72	6.55	6.55	
2.89	26.2	0.72	0.00	6.55	
		0.73	19.65	6.55	- 11
		0.72	13.10	6.55	
		0.72	6.55	6.55	
2.89	26.2	0.72	0.00	6.55	
		0.73	19.65	6.55	111
		0.72	13.10	6.55	
		0.72	6.55	6.55	
2.89	26.2	0.72	0.00	6.55	
		0.73	19.65	6.55	IV
		0.72	13.10	6.55	
		0.72	6.55	6.55	
2.89	26.2	0.72	0.00	6.55	
		0.73	19.65	6.55	V
		0.72	13.10	6.55	
		0.72	6.55	6.55	
2.89	26.2	0.72	0.00	6.55	

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Annexure - 8

DEBT SERVICE CONVERGE RATIO (Rs. LkS)

S S	DESCRIPTIONS	IYR	II YR	III YR	IV YR	VYR
-	CASH ACCURALS					
+	PROFIT AFTER TAX	21.22	24.68	28.25	31.59	33.83
2	TERM LOAN INTEREST	4.16	3.33	2.49	1.66	0.83
0	WORKING CAPITAL INTEREST	2.61	2.61	2.61	2.61	2.61
4	DEPRECIATION	6.56	5.58	4.74	4.03	3.43
	TOTAL ('I')	34.55	36.20	38.09	39.89	40.70
=	DEBT TO BE SERVICED					
-	TERM LOAN INTEREST	4.16	3.33	2.49	1.66	0.83
ni	WORKING CAPITAL INTEREST	2.61	2.61	2.61	2.61	2.61
3	TERM LOAN INSTALLMENT	8.75	8.75	8.75	8.75	8.75
	TOTAL ('II')	15.52	14.69	13.85	13.02	12.19
III.	D.S.C.R. = I/II	2.22.1	2.46.1	2.75:1	3.06.1	3.34
2	C.D.S.C.R. FOR 5 YEARS			2,77.1		

Annexure - 9

RETURN ON INVESTMENTS

A)	COST OF PROJECTS	3	69.96 LKS
B)	NUMBER OF YEARS	5	05 Years
C)	CUMMULATIVE PROFIT BEFORE TAX	:	164.19
D)	CUMMULATIVE PROFIT AFTER TAX	3	139.57
E)	CUMMULATIVE	:	25.52
F)	CUMMULATIVE DEPRECIATION	:	24.34

RETURN ON INVESTMENTS:

A. Before Tax (%) =
$$\frac{C+E+F}{A \times B}$$
 = 15.3%

B. After Tax (%) =
$$\frac{D+E+F}{A \times B}$$
 = 13.54%

	BREAK EVEN ANALISIS	N ANAL	200	ON III	IV YR	VYR
U	DESCRIPTIONS	IYR	= YR	H TH		
S		-	4 00 760	4 38 750	4,38,750	4,38,750
-	INSTALLED CAPACITY/ KG	4,38,750	4,38,730	90	95	100
2	CAPACITY UTILISATION (%)	80	82	4 007 9	1.063.9	1,119.9
ic	SALES REVENUE/Rs.LKS	895.9	901.0	2.100,1		
-	VARIABLE COSTS	000	246 00	789.80	833.60	877.50
A	RAW MATERIALS	702.00	04 40	68.60	72.44	76.25
B	UTILLITIES	61.00	04.10	6.52	6.89	7.25
0	LABOUR WAGES	5.80	0.00	30.00	21.28	22.40
0	TRANSPOT EXPENSES	17.92	19.05	202.00	00 A 24	083 40
5	TOTAL ('I')	786.72	835.21	885.08	204.6.1	
	FIXED EXPENSES		-	45.0	4 00	000
: <	TERM I DAN INTEREST	4.16	3.33	2.49	1.00	0.00
20	VALORING CARITAL INTEREST	2.61	2.61	2.61	2.61	2.61
9	-	6.56	5.58	4.74	4.03	3.43
31	DEPRECIATION	36.10	37.29	39.49	41.68	43.88
0	UNIT OVER HEADS	35.84	38.09	40.32	42.56	44.80
13	ADMINISTRATIVE CYCLE ('II')	85.27	86.90	89.65	92.54	95,55
	CONTRIBUTION = SALES -	109.18	116.69	122.82	129.69	136.5
≥	BREAK EVEN POINT(%) F.COST CONTR	78%	74%	73%	37.8	70%
>	BEEAK EVEN SALES / RALKS	698.1	704.4	735.76	755.37	783.93

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Annexure - 11

PROJECTED CASH FLOW STATEMENTS (Rs. LKS)

S. No.	DESCRIPTIONS	DATA	IYR	II YR	II YR	IV YR	V YR
Ä	SOURCE OF FUNDS						
1)	OPENING BALANCE	00.00	00.00	22.77	48.64	77.86	110.30
2)	PROFIT BEFORE FIN. EXP.	0.00	38.29	40.56	43.07	45.46	46.67
3)	TERM LOAN	41.57					
4)	WORKING CAPITAL LOAN	24.89					
5	PROP. CONTRIBUTION	3.50					
	TOTAL ('A')	96.69	38.29	63.33	91.71	123.32	156.97
B	APPLICATION OF FUNDS						
1	CAPITAL EXPENDITURE	43.76					
2)	WORKING CAPITAL	26.20					
3	TERM LOAN INTEREST		4.16	3.33	2.49	1.66	0.83
4	WORKING CAPITAL INTEREST		2.61	2.61	2.61	2.61	2.61
2	TERM LOAN INSTALLMENT		8.75	8.75	8.75	8.75	8.75
	TOTAL ('B')		15.52	14.69	13.85	13.02	12.19
C	C. CLOSING BALANCE (A-B)		22.77	48.64	77.86	110.30	144.78

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Annexure - 12

PROJECTED BALANCE SHEET (Rs. LkS)

SI.	DESCRIPTIONS	DATA	IYR	II YR	III YR	IV YR	VYR
-	LIABILITIES						
1)	PROPRIETOR CAPITAL A/C	2 50	0 50	2000	1		
5	TERMIOAN	2000	00.0	20.65	34.75	50.36	66.75
16	MODIVINO OTTO	41.57	33.26	24.95	16.64	833	NIN
6	WORKING CAPITAL LOAN	24.89	26.20	26.20	26.20	00.00	1100
4)	NET PROFIT	000	24 20	20.50	20.20	70.20	26.20
	١	20.00	77 77	24.68	28.25	31.59	33.83
=	ACCETO IOIAL (T)	96.69	84.18	96.48	105 84	116.40	400 20
11:	ASSEIS				10.00	110.40	120.78
1	BUILDING						
2)	MACHINERY	0000					
10		43.76	37.20	31.62	76 97	2000	-
3	CASH IN HAND	26 20	28.20	20.00	70.07	77.84	19.41
4	CASH AT BANK		0000	70.02	26.20	26.20	26 20
F	CI OCINIO OTOOM		00.00	10.60	11.70	15.80	40.00
2	i		6.78	10.00	00000	20.00	10.00
9	SUNDRY DEBTORS		6.00	18.06	23.50	30.50	38.90
	VIII) INTOT	80	04 40	00.01	17.47	21.34	23.67
	11 11111	09.90	04.10	96 48	105 04	10000	