





DAVANAGERE UNIVERSITY

S.J.M Vidyapeetha ®, Chitradurga

S.J.M College of Arts, Science and Commerce, Chandravalli, Chitradurga. 577501 Accredited by NAAC with "A"

PROJECT REPORT OF SOLE PROPRIETORSHIP CONCERN

CNC Laser Cutting Machine Manufacturing Industry

SUBMITTED BY-3rd B.Com

- 1 Anusha N
- 2 Bhoomika R N
- 3 Bindu G T
- 4 Chaya C
- 5 Deepasri L
- 6 Divya L jain

SUBMITTED TO

Dr. R.V HegadalAssociate Professor
Dept. of Commerce

-: 2020-21 : -

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 |

11611

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 | |

// 10 //

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.

// 13 //

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 |

11 14 11

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 | |

11 15 11

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 |

// 18 //

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 |

11 19 11

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 | |