# **MODEL PROJECT REPORT FOR WOVEN RMG UNIT WITH A**

# **CAPACITY OF 150 STITCHING MACHINES, WITHOUT**

## **PROCESSING**

The Project details consists of the project cost estimates for land, building, plant & machinery, raw material requirement, working capital requirement, means of finance, power cost, maintenance cost, insurance, salaries & wages, depreciation, expenditure statement, profit statement, break-even analysis, Repayment schedule, etc. Each of the Estimates are furnished below in details.

| Estimates are rurnished below in details.  |           |       |
|--|-----------|-------|
| 1. Project Cost Estimates  | Rupees in | lakhs |
| <b>1.1 Land</b> measuring 10,000 Sq.ft at the rate of 480/sq. ft   | :         | 48.00 |
| <b>1.2 Building</b> (15,000 sq.ft) at the rate of Rs.500/sq.ft construction cost (Ground, 1 <sup>st</sup> & 2 <sup>nd</sup> floor)   | :         | 75.00 |
| 1.3 Plant & machinery (imported)  (a) Stitching machines and other machines  (total 186 machines) including import  duty & others taxes (as detailed in  Annexure-I)   | :         | 94.85 |
| 1.4 Plant and Machinery (Indigenous)   |           |       |
| <ul> <li>(a) Fire fighting Equipment</li> <li>15 Nos ABC type, Minimax make, 5 Kg capacity</li> <li>Rs.3700 each</li> <li>(b) Weighing Equipments</li> <li>Avery Make 3 weighing machines of capacity</li> </ul> | : 0.56    |       |
| 120 Kgs, 30 Kgs, & 6 Kgs (Rs.34,000/- 13,000/-, 11150/- respectively) (c) Material Handling: 20 Nos Trollys, 150 bins and  | : 0.58    |       |
| 200 No. storage bins (Rs.1,000/- each, Rs. 100/-<br>each, Rs.100/- each respectively)<br>(d) Ramsons Boiler (for stream Ironing) 12 Kw/hr and<br>18 Kw/hr 1 No each (Rs. 55,400/- &                              | : 0.55    |       |
| Rs.78,640/- respectively) (e) Steam irons (10 Nos) with tables (10 Nos)  | : 1.34    |       |
| (Rs.1,200/- each & Rs.5,000/- each respectively)   | : 0.62    |       |

Total

3.65

#### 1.5 Miscellaneous fixed assets – Indigenous

(a) Diesel generator krilosker make

1 set – 125 KVA, Rs.14 lakhs

1 set – 110 KVA, Rs.7.22 lakhs : 21.22 (b) Tables (10 Nos – Rs.5000 each) : 0.50 (c) Office equipments/furniture/computer : 6.00

(d) Deposite to state electricity board for

LT connection of 149 HP : 2.50

Total : **30.22** 

**1.6 Total cost of Plant and Machinery** 

(1.3+1.4+1.5) : **128.72** 

1.7 Preliminary & Pre-operative expenses

(5% of 1.6) : **6.44** 

1.8 Working Capital Margin

(25% of Rs.287.60 lakhs) : **71.90** 

1.9 Total Cost : 330.06

1.10 Contingency

(5 % of PC- 5% of 330.06 lakhs) : **16.50** 

1.11 Total cost of the project

(1.1 to 1.10) : **346.56** 

# 2. Raw Material requirement for manufacture of Cotton Shirts & Cotton Bottoms:

|                                     | Shirts       | Bottoms      | Total        |
|-------------------------------------|--------------|--------------|--------------|
| No. of machines producing the items | 80           | 70           | 150          |
| Production/day/machine              | 8 Nos        | 10 Nos       | 18 Nos       |
| Production/day                      | 640          | 700          | 1340         |
| Production per annum                | 1,99,680 pcs | 2,18,400 pcs | 4,18,080 pcs |
| Raw material requirement/piece      | 2.20 mts     | 1.3 mts      | -            |
| Cost of Raw<br>material/mtr         | Rs.70        | Rs.140       | -            |

No. of hours working per day : 8 hours
No. of days working per month : 26 days

Cost of raw material of shirts/annum

199680 X 2.20 X 70 : 307.51 Buttons/collars/cuffs/stitching thread @ Rs.15/shirt : 30.00

Cost of raw material for bottoms/annum

218400 X 1.3 X 140 : 397.49 Zips/Buttons/Hooks/Stitching thread @ Rs.25/bottom : 54.60

Raw material requirement/annum : **789.60** 

3. Sale Value

Sale value of Shirt : Rs.200 Sale value of Bottom : Rs.350

Total Sale Value/annum for shirts

200 X 199680 Rs.399.40

Total Sale Value/annum for Bottoms

350 X 218400 : Rs.764.40

Total : **1163.80** 

#### 4. Working capital requirement

(i) Cost of Raw material for 45 days : Rs.113.88 (ii) Finished goods for 45 days : Rs.167.86

(iii) Cost of consumable stores for 30 days

(Rs.3/machine/day) : Rs. 0.17

(iv) Cost of maintenance spares etc for 90 days (Rs.10/machine/day)

(Rs.10/machine/day) :Rs. 1.67

(v) Cost of packing material for 30 days

(Rs.10/piece) : Rs. 4.02

Total Cost : **287.60** 

Margin money on working capital 25% : **71.90**Bank finance : **215.70** 

#### 5. Means of finance:

| S.No | Description            | Amount (Rs in lakhs) |
|------|------------------------|----------------------|
| 1    | Promoters contribution | 115.52               |
| 2    | Term loan              | 231.04               |
|      | Total                  | 346.56               |

Debt Equity ratio : 2:1

# 6. Salaries & Wages:

# Rs.

| S.<br>No | Description                | Nos/<br>Day | Gross<br>Salary/Wages<br>per | Total/<br>annum |
|----------|----------------------------|-------------|------------------------------|-----------------|
|          |                            |             | month                        |                 |
| Ι        | Office & production staff: | l<br>I      |                              |                 |
| 1        | Production Manager         | 1           | 25000                        | 300000          |
| 2        | Factory Manager            | 1           | 20000                        | 240000          |
| 3        | Manager accounts           | 1           | 12000                        | 144000          |
| 4        | Accountant                 | 1           | 9000                         | 108000          |
| 5        | Floor-in-charge            | 1           | 9000                         | 108000          |
| 6        | Q.C. Manager               | 1           | 9000                         | 108000          |
| 7        | Cutting master             | 1           | 12000                        | 144000          |
| 8        | Pattern Master             | 1           | 10000                        | 120000          |
| 9        | Finishing-in-charge        | 1           | 9000                         | 108000          |
| 10       | Merchandise                | 1           | 12000                        | 144000          |
| 11       | Assistant Merchandiser     | 1           | 8000                         | 96000           |
| 12       | Production Co-ordinator    | 1           | 8000                         | 96000           |
| 13       | Q.C. Assistants            | 2           | 5000                         | 120000          |
| 14       | Asst. Cutting master       | 1           | 6000                         | 72000           |
| 15       | Store-in-charge            | 1           | 7000                         | 84000           |
| 16       | Sampling supervisor        | 1           | 6000                         | 72000           |
| 17       | Floor line supervisor      | 3           | 6000                         | 216000          |
| 18       | Kaja button supervisor     | 1           | 6000                         | 72000           |
| 19       | Checking supervisor        | 1           | 6000                         | 72000           |
| 20       | Packing supervisor         | 1           | 6000                         | 72000           |
| 21       | Stores Assistant           | 1           | 4500                         | 54000           |
| 22       | Assistant Accountant       | 2           | 5000                         | 120000          |
| 23       | Clerical staff             | 4           | 3500                         | 168000          |
| 24       | Receptionist               | 1           | 4000                         | 48000           |
| 25       | Security persons           | 4           | 3000                         | 144000          |
| 26       | Peons                      | 3           | 2200                         | 79200           |
|          | Total                      | 38          | -                            | 31,09,200       |
| II       | Labour                     |             |                              |                 |
| 27       | Cutting helpers            | 24          | 2500                         | 720000          |
|          | (Cutting section)          |             |                              |                 |
|          | Sample section             |             |                              |                 |
| 28       | Tailors                    | 7           | 3000                         | 252000          |
| 29       | Helpers                    | 1           | 2500                         | 30000           |
|          | Production department      |             |                              |                 |
| 30       | Tailors                    | 150         | 3000                         | 5400000         |

| 31 | Helpers                  | 40  | 2500 | 1200000  |
|----|--------------------------|-----|------|----------|
| 32 | Line checkers            | 12  | 2500 | 360000   |
|    | Finishing & packing Dept |     |      |          |
| 33 | Final checkers           | 5   | 2500 | 150000   |
| 34 | Trimming helpers         | 10  | 2500 | 300000   |
| 35 | Alteration Tailor        | 4   | 3000 | 144000   |
| 36 | Ironing section          | 15  | 2500 | 450000   |
| 37 | Packing helpers          | 15  | 2500 | 450000   |
|    | Stores Section           |     |      |          |
| 38 | Stores helpers           | 3   | 2500 | 90000    |
| 39 | Electrician              | 2   | 3700 | 88800    |
| 40 | Mechanic                 | 2   | 3000 | 72000    |
|    | Total                    | 290 | -    | 9706800  |
|    | GRAND TOTAL              | 328 | -    | 12816000 |

Total: Rs. 128.16 lakhs

Statutory Contribution (Provident Fund @ 12% for all employees, On basic salary, Contribution towards ESI @ 4.75 % of the basic

Salary for employees whose gross salary is less than Rs.7500/- p.m): 12.40 lakhs

140.56

#### 7. Power Cost

| S.no | Item                                      | No. of machines  | KW/<br>machines      | Total KW | Kw - Hours     |
|------|---|--|----------------------|----------|----------------|
| 1    | Machinery used for manufacture of garment | 150<br>stitching<br>machines +<br>36<br>additional<br>machines &<br>equipments | 0.33 KW/<br>machines | 62.00    | 496(8 hrs)     |
| 2    | Lighting for 14,000 sq.ft                 | 14,000<br>Sq.ft  | -                    | 18       | 180(10<br>hrs) |
| 3    | 2 Boilers for steam ironing + Iron press  | 2 boilers<br>10 Ironbox  | -                    | 30       | 240(8 hrs)     |
|      |   |  | Total                | 110      | 916            |

Total Connected load :112 KW

Power cost Rs.4.70/unit :916 X 0.7 X 0.95 at power factor 70% = 609.14 KWH utilization 95%

Power cost/annum :609X4.70X312

8.93

8. Maintenance stores/cost

Maintenance cost/machine/day: Rs.10No. of machines: 186No. of working days/annum: 312No. of shifts / annum: 312

Maintenance cost of machines/annum : Rs.5.80 lakhs

Maintenance cost of other equipments (Building, Boiler,

Generator, AC, Computer etc other than machines) : Rs. 5 lakhs

Total : **10.80** 

**9.** The interest rate for the term loan has been assumed as 11% and the Net Interest rate will be 6% after taking into account TUFS interest subsidy of 5 %. The entire project cost is eligible under TUFS since the cost of land/building is less than 50% of the Total Project Cost and all the machines are new machines. The rate of interest for working capital has been assumed as 13.5%.

**10. The Depreciation** has been assumed at 10% under straight line method.

Value of machines :Rs.128.72

Depreciation 10% : **12.87** 

11. Income/annum

Production/annum: Shirts : 1,99,680 pcs

Bottoms : 2,18,400 pcs

Total 4,18,080 pcs

Selling price Rs/pc. Shirts : Rs.200/pc

Bottoms : Rs.350/pc

Income by sales : 1163.80

**12. The value loss** is assumed as 2% of the sale value : **23.28** 

13. Packing charges

Packing charges at the rate of Rs.10/- per

piece for 418080 pcs : **41.81** 

**14.** The selling expenses has been assumed as 5% of sale value

Selling Expenses (5%) : **58.19** 

# **15. The cost of Insurance** of garmenting m/c and other

machines has been assumed at 0.75% of the cost

Insurance for machinery (0.75%) : Rs.128.72 X 0.75%

0.97

#### **16. EXPENDITURE STATEMENT**

| Year           | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| R/M            | 789.60  | 789.60  | 789.60  | 805.39  | 805.39  | 805.39  | 821.50  | 821.50  | 821.50  | 837.93  |
| Salary & wages | 140.56  | 144.78  | 149.12  | 153.59  | 158.20  | 162.39  | 167.84  | 172.88  | 178.07  | 183.41  |
| Power cost     | 8.93    | 8.93    | 8.93    | 8.93    | 8.93    | 8.93    | 8.93    | 8.93    | 8.93    | 8.93    |
| Maintenance    | 10.80   | 10.80   | 10.80   | 10.80   | 10.80   | 11.12   | 11.12   | 11.12   | 11.12   | 11.12   |
| Int.term loan  | 13.86   | 13.86   | 13.86   | 11.43   | 9.80    | 8.17    | 6.53    | 4.90    | 3.27    | 1.63    |
| Depreciation   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   |
| Int.wr/capital | 29.12   | 29.12   | 29.12   | 29.12   | 29.12   | 29.12   | 29.12   | 29.12   | 29.12   | 29.12   |
| Values loss    | 23.28   | 23.28   | 23.28   | 24.44   | 24.44   | 24.44   | 25.67   | 25.67   | 25.67   | 26.95   |
| Packing        | 41.81   | 41.81   | 41.81   | 42.65   | 42.65   | 42.65   | 43.50   | 43.50   | 43.50   | 44.37   |
| Selling Exp.   | 58.19   | 58.19   | 58.19   | 61.10   | 61.10   | 61.10   | 64.16   | 64.16   | 64.16   | 67.37   |
| Insurance      | 0.97    | 0.97    | 0.97    | 0.97    | 0.97    | 0.97    | 0.97    | 0.97    | 0.97    | 0.97    |
| Total          | 1129.99 | 1134.21 | 1138.55 | 1161.29 | 1164.27 | 1167.15 | 1192.21 | 1195.62 | 1199.18 | 1224.67 |

### **Assumptions:**

i) Raw material/packing charges : 2% increase after every 3 years

ii) wages : 3% increase every year

iii) Selling Expenses/value loss : 5% increase after every 3 years

iv) Maintenance : 3% increase after every 5 years v) Selling Price : 5% increase after every 3 years

#### **17. PROFIT STATEMENT**

| Year         | 1       | 2       | 3       | 4       | 5       | 6       | 7       | 8       | 9       | 10      |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Income       | 1163.80 | 1163.80 | 1163.80 | 1221.99 | 1221.99 | 1221.99 | 1283.09 | 1283.09 | 1283.09 | 1347.24 |
| Expenditure  | 1129.99 | 1134.21 | 1138.55 | 1161.29 | 1164.27 | 1167.15 | 1192.21 | 1195.62 | 1199.18 | 1224.67 |
| Profit       | 33.81   | 29.59   | 25.25   | 60.7    | 57.72   | 54.84   | 90.88   | 87.47   | 83.91   | 122.57  |
| Depreciation | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   | 12.87   |
| Cash profit  | 46.68   | 42.46   | 38.12   | 73.57   | 70.59   | 67.71   | 103.75  | 100.34  | 96.78   | 135.44  |

| Gross<br>profit     | 33.81 | 29.59 | 25.25 | 60.7  | 57.72 | 54.84 | 90.88 | 87.47 | 83.91  | 122.57 |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Tax                 | 11.83 | 10.35 | 8.83  | 21.24 | 20.20 | 19.19 | 31.80 | 30.61 | 29.36  | 42.89  |
| Profit<br>after tax | 21.98 | 19.24 | 16.42 | 39.46 | 37.52 | 35.65 | 59.08 | 56.86 | 113.27 | 79.68  |

# **18. DEBT SERVICE COVERAGE RATIO (DSCR)**

|   | Year                         | 1     | 2     | 3     | 4     | 5     | 6     | 7      | 8      | 9     | 10     |
|---|------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|--------|
| Α | Profit                       | 46.68 | 42.46 | 38.12 | 73.57 | 70.59 | 67.71 | 103.75 | 100.34 | 96.78 | 135.44 |
| В | Int on term<br>loan in lakhs | 13.86 | 13.86 | 13.86 | 12.13 | 10.40 | 8.66  | 6.93   | 5.98   | 3.47  | 1.73   |
| С | Installments                 | Nil   | Nil   | 28.88 | 28.88 | 28.88 | 28.88 | 28.88  | 28.88  | 28.88 | 28.88  |
|   | DSCR                         | 4.36  | 4.06  | 1.21  | 2.08  | 2.06  | 2.03  | 3.09   | 3.04   | 3.09  | 4.48   |

Two years moratorium & 8 years term loan repayment under TUFS scheme

Maximum DSCR = 4.48

Minimum DSCR = 1.21

Average DSCR = 2.95

19. Break - Even Analysis:

| Variable Cost           | Rs. in lakhs |
|-------------------------|--------------|
| Raw material            | 789.60       |
| Packing                 | 41.81        |
| Wages & Salaries – 50%  | 70.28        |
| Selling expenses        | 58.19        |
| Int. on Working Capital | 29.12        |
| Value loss              | 23.28        |
| Power cost              | 8.93         |
| Total                   | 1021.21      |

| Fixed cost             | Rs. in lakhs |
|------------------------|--------------|
| Wages & Salaries – 50% | 70.28        |
| Repair & maintenance   | 10.80        |
| Insurance              | 0.97         |
| Depreciation           | 12.87        |
| Interest on term loan  | 13.86        |
| Total                  | 108.78       |

Income by sales : Rs. 1163.80 lakhs

Sales – Variable cost : Rs. 142.59 lakhs

Break-Even point : Fixed cost X 95

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Sales-Variable cost

= 108.78 X 95 142.59

= 72.47%

Cash Break-Even Point : Fixed cost- Depreciation X 95

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Sales-Variable cost

= (108.78-12.87) X 95

142.59

= 63.89 %

#### 20. BANK LOAN REPAYMENT SCHEDULE

Interest @ 11% (net Interest = 6% Interest reimbursement under TUFS = 5%)

| Year | Opening | Interest | Principal | Total | Closing |
|------|---------|----------|-----------|-------|---------|
|      | balance |          | payment   |       | Balance |
| 1    | 231.04  | 13.86    | Nil       | Nil   | 231.04  |
| 2    | 231.04  | 13.86    | Nil       | Nil   | 231.04  |
| 3    | 231.04  | 13.86    | 28.88     | 42.74 | 202.16  |
| 4    | 202.16  | 12.13    | 28.88     | 41.01 | 173.28  |
| 5    | 173.28  | 10.40    | 28.88     | 39.28 | 144.40  |
| 6    | 144.40  | 8.66     | 28.88     | 37.54 | 115.52  |
| 7    | 115.52  | 6.93     | 28.88     | 35.81 | 86.64   |
| 8    | 86.64   | 5.98     | 28.88     | 34.86 | 57.76   |
| 9    | 57.76   | 3.47     | 28.88     | 32.35 | 28.88   |
| 10   | 28.88   | 1.73     | 28.88     | 30.61 | 0       |

Two years moratorium & 8 years term loan repayment under TUF scheme

#### 21. EXPENDITURE & PROFIT PER PIECE

Expenditure : Rs. 1129.99 lakhs
Selling Price : Rs. 1163.80 lakhs
Profit : Rs 33.81 lakhs
Depreciation : Rs. 12.87 lakhs
Cash profit : Rs. 46.68 lakhs

Profit/pc : 46.68 X 100000

----- = Rs. 11.16/pc

418080

**22. Internal Rate of Return (IRR)** : Initial Investment = Cash flows

1+ IRR

346.56 = 479.16

1 + IRR

IRR = 38%

23. Pay Back Period : 6 years 1 month

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Annexure-I

1.3 Plant & Machinery (Imported)

|      | riant & Machinery (Impor      |          |            |             | ,               |
|------|-------------------------------|----------|------------|-------------|-----------------|
| S.No | Name                          | No. of   | Rate/      | Rate in Rs. | Total cost of   |
|      |                               | Machines | machine    | with Import | machines in Rs. |
|      |                               |          | in Dollars | Duty        |                 |
| 1    | Oshima Make End cutter        | 2 2      | 450        | 25,240      | 50,480          |
| 2    | Oshima Make Hand cutting      | 2        | 750        | 42,066      | 84,132          |
|      | m/c                           |          |            |             |                 |
| 3    | Oshima make Bandknife         | 1        | 3900       | 1,89,464    | 1,89,464        |
|      | cutting m/c                   |          |            |             |                 |
| 4    | Juki make DDL 8300 Model      | 109      | 330        | 16,032      | 17,47,488       |
|      | Single Needle stitching m/c   |          |            |             |                 |
| 5    | Juki make DDI 8700-7 model    | 25       | 800        | 38,864      | 1,71,600        |
|      | Electronic Single Needle      |          |            |             |                 |
|      | stitching m/c                 |          |            |             |                 |
| 6    | Juki make DLM 5200 Model      | 4        | 955        | 46,394      | 1,85,576        |
|      | single needle stitch and      |          |            |             |                 |
|      | Trimmer m/c                   |          |            |             |                 |
| 7    | Juki make LH 3128 Model       | 6        | 1320       | 64,126      | 3,84,756        |
|      | Double Needle Stitching m/c   |          |            |             |                 |
| 8    | Juki make LH 3168 Model Split | 6        | 1850       | 89,874      | 5,39,244        |
|      | Needle bar Double Needle      |          |            |             |                 |
|      | Stitching machineries         |          | 2.22       |             |                 |
| 9    | Kansai Make Special M/c       | 4        | 2100       | 1,02,019    | 4,08,076        |
| 10   | Juki Make Overlock m/c        | 8        | 850        | 41,294      | 3,30,352        |
| 11   | Juki Make Feed of Arm         | 4        | 2200       | 1,06,877    | 4,27,508        |
| 12   | Juki Made LK-1900 Model Bar   | 2        | 3025       | 1,69,666    | 3,39,332        |
| - 10 | Tack m/c                      |          | 40500      | = 10.006    | 40.00.400       |
| 13   | Juki Make MEB 2000 Model      | 2        | 10500      | 5,10,096    | 10,20,192       |
| - 4  | Button Hole m/c               | _        | 2050       | 4 40 040    | 2.06.626        |
| 14   | Juki Make LBH-781 Button      | 2        | 2950       | 1,43,313    | 2,86,626        |
| 4.5  | Hole M/c                      |          | 4000       | 2 24 254    | 0.07.404        |
| 15   | Juki Make LK-1903 Button      | 4        | 4000       | 2,24,351    | 8,97,404        |
| 1.0  | stitching M/c                 |          | 4000       | 2 24 254    | 2 24 254        |
| 16   | Oshima Make Cuff Turning      | 1        | 4000       | 2,24,351    | 2,24,351        |
| 17   | m/c                           | 4        | F100       | 2.00.040    | 2.00.040        |
| 17   | Oshime make Collar Turning    | 1        | 5100       | 2,86,048    | 2,86,048        |
| 10   | m/c                           | 2        | 2000       | 1.60.262    | 2.26.526        |
| 18   | Oshima Make Fusing m/c        | 2        | 3000       | 1,68,263    | 3,36,526        |
| 19   | CAD System (Indigenous)       | 1        | -          | 5,00,000    | 5,00,000        |
| 1    | T-1-1                         | 100      | -          | _           | 92,09,155       |
| 1    | Total                         | 186      |            |             | (or) Rs.92.09   |
|      |                               |          |            |             | lakhs           |

**Note:** Machines at S.No.3 to 11, 13, 14 are having Import Duty of (Basic) 5.5% + 2% cess on Import duty.

## **Rupees in Lakhs**

Machines at S.No.1,2,12,15,16,17 & 18 are having In-built Motor therefore Import Duty is (Basic) 5.5% + (CVD)16% + 2% cess on Import Duty.

Erection Charges – 2% = 1.84 Local Transport Expenses-1% = 0.92

Total Cost of Imported machines Rs. 94.85