PROJECT REPORT

Of

MINI TUFTING UNIT

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding MINI TUFTING UNIT

The objective of the pre-feasibility report is primarily to facilitate potential entrepreneurs in project identification for investment and in order to serve his objective; the document covers various aspects of the project concept development, start-up, marketing, finance and management.

[We can modify the project capacity and project cost as per your requirement. We can also prepare project report on any subject as per your requirement.]



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			PROJECT AT A GLANCE		
1	Name of the Entreprenuer		XXXXXXX		
2	Constitution (legal Status)	:	XXXXXXX		
3	Father's/Spouce's Name		XXXXXXXX		
4	Unit Address		XXXXXXXX		
			Taluk/Block: District : Pin: E-Mail : Mobile	XXXXX XXXXX XXXXX XXXXX	State: XXXX
5	Product and By Product	:	PROJECT PROFILE FOR MINI TUFT	ING UNIT	
6	Name of the project / business activity pro	oposed :	PROJECT PROFILE FOR MINI TUFT	ING UNIT	
7	Cost of Project	:	Rs25.00lac		
8	Means of Finance Term Loan KVIC Margin Money Own Capital Working Capital	-	Rs.16.64 Lacs As per Project Eligibility Rs.2.5 Lacs Rs.5.86 Lacs		
9	Debt Service Coverage Ratio	:	2.2	26	
10	Pay Back Period	:		5 Years	
11	Project Implementation Period	:		6 Months	
12	Break Even Point	:	35	%	
13	Employment	:		8 Persons	
14	Power Requirement	:	12.0	0 HP	
15	Major Raw materials	:	COIR YARN		
16	Estimated Annual Sales Turnover	:	263.1	8 Lacs	
16	Detailed Cost of Project & Means of Finan	се			
	COST OF PROJECT		Particulars	(Rs. In Lacs) Amount	1
			Land	Rented/Owned	-
			Building & Civil Work	Rented/Owned]
			Plant & Machinery	18.00	1
			Furniture & Fixtures	0.49	4
			Pre-operative Expenses Working Capital Requirement	- 6 51	4
			Total	6.51 25.00]
	MEANS OF FINANCE			(Rs. In Lacs)	
			Particulars	Amount	1
			Own Contribution @10%	2.50]
			Term Loan	16.64	
			Workign Capital Finance Total	5.86 25.00	1
				20.00	1
				General	Special
			Beneficiary's Margin Monery	10%	5%

PROJECT PROFILE FOR MINI TUFTING UNIT



• INTRODUCTION

.PVC backed non-woven mat in 50cm width and different length and pile height and PVC thickness can be adjusted by cutting and doctor blade.Cutting head has a spreading platform for PVC/Latex emulsion and device for controlling its thickness.

• PROCESS OF MANUFACTURE

Hanks of coir yarn are wound into spools by using spool winding machines. Hanks are placed on the flyers supplied with this machine and yarn is taken through yarn tensioners and attached to the empty spools on the winding drum. When the machines start the winding drum rotates and the yarn is wound into spools. The yarn released from the spools is first chopped into equal preset lengths and thickly implanted vertically onto the PVC resin/latex sheet by passing the materials through a chute. The pile height is controlled for achieving the required thickness of the sheet.

A conveyor with heat resistant Teflon belt running along the length of the machine and movement of this conveyor is regulated by the belt aligner. The conveyor belt is Teflon coated, capable of withstanding temperature up to 250°C, so as to facilitate easy removal of the sheet after cooling.

The conveyor in its forward movement passes over the heating oven and cooling zone and by doing so, the bits of coir yarn gets implanted family over the PVC/Latex base and forms the mats.The mat can be rolled out of the machine in continuous length or cutting to mat size by longitudinal and cross cutting. Starting from the creel stand to the delivery end, the machine performs automatically.

BASIS AND PRESUMTIONS

- The Project Profile is based on 8 working hours for2shifts in a day and 25 days in a month and the Break Even efficiency has been calculated on 55%, 65%, 75%, 85% and 95% capacity utilization.
- The rate of interest both for fixed asset and working capital have been taken as 11.5% p.a.

• TECHNICAL ASPECTS

Installed Production capacity per day	:	250 sq.meter
Number of Shift per day	:	2
Working days p.a	:	300 days
Capacity Utilization		
-First year	:	55%
-Second year	:	65%
-Third year	:	75%
-Fourth year	:	85%
-Fifth year	:	95%
Rate of Average Sales Realization	:	Rs. 330 per sq.meter
Rate of Average cost of raw material	:	Rs.300
Interest on term Loan	:	11.50%
Interest on working capital	:	11.50%
Manpower requirement		
Skilled worker	:	2
Unskilled worker	:	6
Total HP required	:	12 HP

PLANT & MACHINERY

PARTICULARS	QTY.	RATE	AMOUNT IN RS.
Creel Stands to carry yarn in spools	1.00		
Pre heated to eliminate excess			
moisture in yarn	1.00		
Motorized stirrer/Pulveriser unit for			
PVC/ Latex emulsion	1.00		
Cutting head to cut the yarn into bits			
as per pile height of mat	1.00		
Belt joining device	1.00		
Teflon conveyor	1.00		
Heating panels of required quantities	1.00		
Cooling zone of required length	1.00		
Roll winding device	1.00		
Electrical panel board	1.00		
Total Cost of Plant and Machineries			18,00,000.00

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
SOURCES OF FUND					
Capital Account	2.50	2.50	2.50	2.50	2.50
Retained Profit	5.11	11.53	19.82	30.57	42.5
Term Loan	16.64	12.48	8.32	4.16	0.00
Cash Credit	5.86	5.86	5.86	5.86	5.8
Sundry Creditors	8.25	9.75	11.25	12.75	13.5
Provisions & Other Liab	0.36	0.40	0.44	0.48	0.5
TOTAL :	38.72	42.51	48.18	56.32	64.8
APPLICATION OF FUND					
	18.49	18.49	18.49	18.49	18.4
Fixed Assets (Gross)	18.49 2.72	18.49 5.07	18.49 7.06	18.49 8.75	
Fixed Assets (Gross) Gross Dep.					18.4 10.2 8.2
Fixed Assets (Gross) Gross Dep. Net Fixed Assets	2.72	5.07	7.06	8.75	10.2
Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets	2.72	5.07	7.06	8.75	10.2
Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors	<u>2.72</u> 15.77	<u>5.07</u> 13.42	7.06 11.43	<u>8.75</u> 9.74	<u> 10.2</u> 8.2 4.4
Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors Stock in Hand	<u>2.72</u> 15.77 2.63	5.07 13.42 3.20	7.06 11.43 3.70	8.75 9.74 4.19	<u>10.2</u> 8.2 4.4 19.8
Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors Stock in Hand Cash and Bank Deposits & Advances	2.72 15.77 2.63 12.13	5.07 13.42 3.20 14.33	7.06 11.43 3.70 16.54	8.75 9.74 4.19 18.74	<u>10.2</u> 8.2

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PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
SOURCES OF FUND					
Share Capital	2.50	-			
Reserve & Surplus	5.11	7.13	10.36	13.44	14.92
Depriciation & Exp. W/off	2.72	2.34	1.99	1.70	1.44
Increase in Cash Credit	5.86	-	-	-	-
Increase In Term Loan	16.64	-	-	-	-
Increase in Creditors	8.25	1.50	1.50	1.50	0.7
Increase in Provisions	0.36	0.04	0.04	0.04	0.0
TOTAL :	41.44	11.01	13.89	16.68	17.1
<u>APPLICATION OF FUND</u>					
Increase in Fixed Assets	18.49	-	-	-	-
Increase in Stock	12.13	2.21	2.21	2.21	1.1
Increase in Debtors	2.63	0.57	0.49	0.50	0.2
Increase in Deposits & Adv	2.50	0.25	0.28	0.30	0.3
Repayment of Term Loan	-	4.16	4.16	4.16	4.1
Taxation	-	0.71	2.07	2.69	2.9
	35.75	7.90	9.21	9.85	8.84
TOTAL :			8.81	13.49	20.3
	-	5.70			
TOTAL : Opening Cash & Bank Balance Add : Surplus	- 5.70	5.70 3.11	4.68	6.83	8.3

263.18	320.10	369.60	419.10	444.68
	320.10	369.60	419.10	111 40
				444.00
263.18	320.10	369.60	419.10	444.68
247.50	292.50	337.50	382.50	405.00
0.83	0.98	1.13	1.28	1.35
-	3.20	3.70	4.19	4.45
6.07	6.68	7.35	8.08	8.89
2.72	2.34	1.99	1.70	1.44
257.12	305.70	351.66	397.75	421.13
-	6.35	7.51	8.66	9.82
6.35	7.51	8.66	9.82	10.40
250.77	304.54	350.51	396.59	420.56
12.40	15.56	19.09	22.51	24.12
5%	5%	5%	5%	5%
1.44	1.73	1.26	0.78	0.30
				0.59
2.64		3.19	3.51	3.87
2.63	3.20	3.70	4.19	4.45
7.29	8.43	8.73	9.07	9.20
5.11	7.13	10.36	13.44	14.92
-	0.71	2.07	2.69	2.98
5.11	6.42	8.29	10.75	11.94
	0.83 - 6.07 2.72 257.12 - 6.35 250.77 12.40 5% 1.44 0.59 2.64 2.63 7.29 5.11	0.83 0.98 - 3.20 6.07 6.68 2.72 2.34 257.12 305.70 - 6.35 6.35 7.51 250.77 304.54 12.40 15.56 5% 5% 1.44 1.73 0.59 0.59 2.64 2.90 2.63 3.20 7.29 8.43 5.11 7.13 - 0.71	0.83 0.98 1.13 - 3.20 3.70 6.07 6.68 7.35 2.72 2.34 1.99 257.12 305.70 351.66 - 6.35 7.51 6.35 7.51 8.66 250.77 304.54 350.51 12.40 15.56 19.09 $5%$ $5%$ $5%$ 1.44 1.73 1.26 0.59 0.59 0.59 2.64 2.90 3.19 2.63 3.20 3.70 7.29 8.43 8.73 5.11 7.13 10.36 - 0.71 2.07	0.83 0.98 1.13 1.28 - 3.20 3.70 4.19 6.07 6.68 7.35 8.08 2.72 2.34 1.99 1.70 257.12 305.70 351.66 397.75 - 6.35 7.51 8.66 6.35 7.51 8.66 6.35 7.51 8.66 6.35 7.51 8.66 9.82 250.77 304.54 250.77 304.54 350.51 396.59 12.40 15.56 19.09 22.51 $5%$ $5%$ $5%$ $5%$ $5%$ $5%$ $5%$ $5%$ 5.9 0.59 0.59 0.59 2.64 2.90 3.19 3.51 2.63 3.20 3.70 4.19 7.29 8.43 8.73 9.07 5.11 7.13 10.36 13.44 $ 0.71$ 2.07 2.69

COMPUTATION OF MANUFACTURING OF COIR MATT

Items to be Manufactured

PROJECT PROFILE FOR MINI TUFTING UNIT

Manufacturing Capacity shift	- 250.00	Sq Mt
	-	
No of Shifts	2	
No. of Working Hour	8	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	1,50,000.00	Sq Mt
Year	Capacity	Sq Mt
	Utilisation	
IST YEAR	55%	82,500
IIND YEAR	65%	97,500
IIIRD YEAR	75%	1,12,500
IVTH YEAR	85%	1,27,500
VTH YEAR	90%	1,35,000

COMPUTATION OF RAW MATERIAL

Item Name		Quantity of	Recovery	Unit Rate of	Total Cost
		Raw Material		/ SQ MT	Per Annum (100%)
		Sq Mt		Rs	
Raw Material	100%	1,50,000.00	100%	300.00	450.00

Total (Rounded off in lacs)

Annual Consumption cost

(In Lacs)

Raw Material Consumed Amount (Rs.) Capacity Utilisation IST YEAR 55% 247.50 **IIND YEAR** 65% 292.50 **IIIRD YEAR** 75% 337.50 IVTH YEAR 85% 382.50 VTH YEAR 90% 405.00

450.00

450.00

COMPUTATION OF SALE

Particulars	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Op Stock		2,750	3,250	3,750	4,250
Production	82,500	97,500	1,12,500	1,27,500	1,35,000
	82,500	1,00,250	1,15,750	1,31,250	1,39,250
Less : Closing Stock	2,750	3,250	3,750	4,250	4,500
Net Sale	79,750	97,000	1,12,000	1,27,000	1,34,750
Sale Price per MT	330.00	330.00	330.00	330.00	330.00
Sale (in Lacs)	263.18	320.10	369.60	419.10	444.68

COMPUTATION OF ELECTRICITY

(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required		12	
Load Factor		0.7460	
Electricity Charges	per unit	7.00	
Total Working Days		300	
Electricity Charges (8 Hrs Per day)			1,50,393.60
Add : Minimim Charges (@ 10%)			
(B) D.G. SET		000	
No. of Working Days		300	days
No of Working Hours		-	Hour per day
Total no of Hour		-	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		-	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		-	
Add : Lube Cost @15%		-	
Total		-	
Total cost of Power & Fuel at 100%			1.50
Year	Capacity		Amount
			(in Lacs)
IST YEAR	55%		0.8
IIND YEAR	65%		0.9
IIIRD YEAR	75%		1.1
IVTH YEAR	85%		1.2
VTH YEAR	90%		1.3

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Finished Goods					
(10 Days requirement)	6.35	7.51	8.66	9.82	10.40
Raw Material					
(7 Days requirement)	5.78	6.83	7.88	8.93	9.45
Closing Stock	12.13	14.33	16.54	18.74	19.85

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars		Total
		Amount
Stock in Hand		12.13
Sundry Debtors		2.63
	Total	14.76
Sundry Creditors		8.25
Working Capital Requirement		6.51
Margin		0.65
Working Capital Finance		5.86

BREAK UP OF LABOUR			
Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Skilled Worker	8,000.00	2	16,000.00
Unskilled Worker	5,000.00	6	30,000.00
			46,000.00
Add: 10% Fringe Benefit			4,600.00
Total Labour Cost Per Month			50,600.00
Total Labour Cost for the year (In Rs. Lakhs)			6.07

BREAK UP OF SALARY

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Particulars	Salary	No of	Total
	Per Month	Employees	Salary
Manager	12,000.00	1	12,000.00
Accountant	8,000.00	1	8,000.00
Total Salary Per Month			20,000.00
Add: 10% Fringe Benefit			2,000.00
Total Salary for the month			22,000.00
Total Salary for the year (In Rs. Lakhs)			2.64

COMPUTATION OF DEPRECIATIO	ЛC

Description	Land	Building/shed	Plant &	Furniture	TOTAL	
			Machinery			
Rate of Depreciation		10.00%	15.00%	10.00%		
Opening Balance	Leased	-	-	-	-	
Addition	-	-	18.00	0.49	18.49	
	-	-	18.00	0.49	18.49	
Less : Depreciation	-	-	2.70	0.02	2.72	
WDV at end of Ist year	-	-	15.30	0.47	15.77	
Additions During The Year	-	-	-	-	-	
	-	-	15.30	0.47	15.7	
Less : Depreciation	-	-	2.30	0.05	2.34	
WDV at end of IInd Year	-	-	13.01	0.42	13.42	
Additions During The Year	-	-	-	-	-	
	-	-	13.01	0.42	13.42	
Less : Depreciation	-	-	1.95	0.04	1.99	
WDV at end of IIIrd year	-	-	11.05	0.38	11.43	
Additions During The Year	-	-	-	-	-	
	-	-	11.05	0.38	11.43	
Less : Depreciation	-	-	1.66	0.04	1.70	
WDV at end of IV year	-	-	9.40	0.34	9.74	
Additions During The Year	-	-	-	-	-	
	-	-	9.40	0.34	9.74	
Less : Depreciation	-	-	1.41	0.03	1.44	
WDV at end of Vth year	-	-	7.99	0.31	8.29	

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
IST YEAR	Opening Balance						
	Ist Quarter	-	16.64	16.64	-	-	16.64
	lind Quarter	16.64	-	16.64	0.48	-	16.64
	IIIrd Quarter	16.64	-	16.64	0.48	-	16.64
	Ivth Quarter	16.64	-	16.64	0.48	-	16.64
					1.44	-	
IND YEAR	Opening Balance						
	Ist Quarter	16.64	-	16.64	0.48	1.04	15.60
	lind Quarter	15.60	-	15.60	0.45	1.04	14.56
	IIIrd Quarter	14.56	-	14.56	0.42	1.04	13.52
	Ivth Quarter	13.52		13.52	0.39	1.04	12.48
					1.73	4.16	
IIRD YEAR	Opening Balance						
	Ist Quarter	12.48	-	12.48	0.36	1.04	11.44
	lind Quarter	11.44	-	11.44	0.33	1.04	10.40
	IIIrd Quarter	10.40	-	10.40	0.30	1.04	9.36
	Ivth Quarter	9.36		9.36	0.27	1.04	8.32
					1.26	4.16	
IVTH YEAR	Opening Balance						
	Ist Quarter	8.32	-	8.32	0.24	1.04	7.28
	lind Quarter	7.28	-	7.28	0.21	1.04	6.24
	IIIrd Quarter	6.24	-	6.24	0.18	1.04	5.20
	Ivth Quarter	5.20		5.20	0.15	1.04	4.16
					0.78	4.16	
/TH YEAR	Opening Balance						
	Ist Quarter	4.16	-	4.16	0.12	1.04	3.12
	lind Quarter	3.12	-	3.12	0.09	1.04	2.08
	IIIrd Quarter	2.08	-	2.08	0.06	1.04	1.04
	Ivth Quarter	1.04		1.04	0.03	1.04	0.00
					0.30	4.16	

CALCULATION OF D.S.C.R

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
	7.04	0.74	10.00	40.45	10.00
CASH ACCRUALS	7.84	8.76	10.28	12.45	13.38
Interest on Term Loan	1.44	1.73	1.26	0.78	0.30
Total	9.27	10.49	11.54	13.23	13.68
REPAYMENT					
Instalment of Term Loan	4.16	4.16	4.16	4.16	4.16
Interest on Term Loan	1.44	1.73	1.26	0.78	0.30
Total	5.60	5.89	5.42	4.94	4.46
DEBT SERVICE COVERAGE RATIO	1.66	1.78	2.13	2.68	3.07
AVERAGE D.S.C.R.			2.26		

BREAK EVEN POINT ANALYSIS

Year	I	II	III	IV	V
Net Sales & Other Income	263.18	320.10	369.60	419.10	444.68
Less : Op. WIP Goods	-	6.35	7.51	8.66	9.82
Add : Cl. WIP Goods	6.35	7.51	8.66	9.82	10.40
Total Sales	269.53	321.26	370.76	420.26	445.25
Variable & Semi Variable Exp.					
	0.47.50	000 50	007.50	000 50	405.00
Raw Material & Tax	247.50	292.50	337.50	382.50	405.00
Electricity Exp/Coal Consumption at 85%	0.70	0.83	0.96	1.09	1.15
Manufacturing Expenses 80%	-	2.56	2.96	3.35	3.56
Wages & Salary at 60%	5.23	5.75	6.32	6.96	7.65
Selling & adminstrative Expenses 80%	2.11	2.56	2.96	3.35	3.56
Intt. On Working Capital Loan	0.59	0.59	0.59	0.59	0.59
Total Variable & Semi Variable Exp	256.12	304.79	351.28	397.84	421.50
Contribution	13.41	16.47	19.47	22.42	23.75
Fixed & Semi Fixed Expenses					
Manufacturing Expenses 20%	0.00	0.64	0.74	0.84	0.89
Electricity Exp/Coal Consumption at 15%	0.12	0.15	0.17	0.19	0.20
Wages & Salary at 40%	3.48	3.83	4.22	4.64	5.10
Interest on Term Loan	1.44	1.73	1.26	0.78	0.30
Depreciation	2.72	2.34	1.99	1.70	1.44
Selling & adminstrative Expenses 20%	0.53	0.64	0.74	0.84	0.89
Total Fixed Expenses	8.30	9.34	9.11	8.98	8.83
Capacity Utilization	55%	65%	75%	85%	90%
OPERATING PROFIT	5.11	7.13	10.36	13.44	14.92
BREAK EVEN POINT	34%	37%	35%	34%	33%
BREAK EVEN SALES	166.77	182.14	173.51	168.32	165.48



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