PROJECT REPORT

Of

COIR BRUSH

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding COIR BRUSH

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.]



<u>Lucknow Office</u>: Sidhivinayak Building , 27/1/B, Gokhlley Marg, Lucknow-226001

<u>Delhi Office</u>: Multi Disciplinary Training Centre, Gandhi Darshan Rajghat, New Delhi 110002

Email: info@udyami.org.in Contact: +91 7526000333, 444, 555

	P	ROJ	ECT AT A GLANCE			
1	Name of the Entreprenuer		xxxxxxx			
2	Constitution (legal Status) :		XXXXXXX			
3	Father's/Spouce's Name		XXXXXXX			
4	Unit Address :		XXXXXXX			
			Taluk/Block: District: Pin: E-Mail : Mobile	XXXXX XXXXX XXXXX	State:	xxxxx
5	Product and By Product	:	COIR BRUSH UNIT			
6	Name of the project / business activity proposed :		COIR BRUSH UNIT			
7	Cost of Project	:	Rs18.00lacs			
8	Means of Finance Term Loan KVIC Margin Money Own Capital Working Capital	-	Rs.9.44 Lacs As per Project Eligibility Rs.1.8 Lacs Rs.6.76 Lacs			
9	Debt Service Coverage Ratio	:	2.50			
10	Pay Back Period	:	5	Years		
11	Project Implementation Period	:	6	Months		
12	Break Even Point	:	56%	ı		
13	Employment	:	25	Persons		
14	Power Requirement	:	12.00	HP		
15	Major Raw materials	:				
16	Estimated Annual Sales Turnover	:	67.03	Lacs		
16	Detailed Cost of Project & Means of Finance					
	COST OF PROJECT		Particulars Land Building & Civil Work (1500 Sq Ft) Plant & Machinery Furniture & Fixtures Pre-operative Expenses	(Rs. In Lacs) Amount Rented/Owned 4.00 6.00 0.49		
			Working Capital Requirement Total	7.51 18.00		
	MEANS OF FINANCE				_	
			Particulars	Amount		
			Own Contribution @10% Term Loan Workign Capital Finance	1.80 9.44 6.76		
			Total	18.00		

GeneralSpecialBeneficiary's Margin Monery10%5%(% of Project Cost)5%

PROJECT PROFILE FOR COIR BRUSH MAKING/

TWISTED WIRE MAT PRODUCTIONUNIT







INTRODUCTION

The common varieties of coir brushes are Commode Brush, Bannister Brush, Floor Sweeping Brush, Table Cleaning Brush, Bottle Cleaning Brush, Scrubbing Brush, Foam Cleaning Brush, Boot Polishing Brush, Hair Brush and Basin Cleaning Brush.

PROCESS OF MANUFACTURE

Preparation of Coir fibre for Brushes

Bristle fibre of long staple length is preferred which are available in small bundles of 2" diameter. The bristle fibre bundles are untied and the fibres are subjected to a combing process for the removal of adhering pith and short fibres. Combing also helps to parallelize the fibre.

The combing involves drawing of the fibres through a row of steel spikes (nails) usually 8 in numbers, each about 15 cm long, spaced about 2.5 cm apart and fixed vertically on a wooden table or plank.

Manufacture of Coir Brushes

Wooden logs are sawed to sizes with the help of band saw. The resultant wood sections are cut into small sizes by circular saw. The wood sections of smaller size suitable to the type of brush are taken to the thickness planer for planning or to the wood turning lathe for turning as the case may be. After planning or turning, the wood sections are fed to the jig saw for cutting them to the required shape to suit the pattern of brushes. These wood sections are drilled with holes with the help of a sensitive drilling machine. These are then taken for tufting of coir fibre.

The combed coir fibres are cut to suitable length depending on the pile height of the brush with the help of a thistle and hammer or scissors. Small bunches of cut fibres are then pinned together so as to form individual tuft of fibres to fill in the brush holes. The tuft is made by winding the GI wire of suitable gauge (18, 20& 22), cut into 2 cm length in hand lever shearer and bent into "U" shape and pressing the bunches of cut fiber at its central portion with the help of pliers.

The tufts of fibre are then pressed into the holes of the wood material by hammering at the bend portions of the GI wire with the help of a punch and hammer. Thus the entire holes in the wood will be filled with fibre tufts. Thereafter the top portions of the brush will be sheared by a top shearing machine or by hand using scissors.

BASIS AND PRESUMTIONS

- The Project Profile is based on 8 working hours for 2 shifts in a day and 25 days in a month and the Break Even efficiency has been calculated on 70%, 80%, 90%, 90% and 100% 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 shift : 800 piece

Number of Shift per day : 2

Working days p.a : 300 days

Capacity Utilization

 -First year
 : 70%

 -Second year
 : 80%

 -Third year
 : 90%

 -Fourth year
 : 90%

 -Fifth year
 : 100%

Rate of Average Sales Realization : Rs. 21 per brush Rate of Average cost of raw material : Rs.11 per brush

Interest on term Loan : 11.50%

Interest on working capital : 11.50%

Manpower requirement

Unskilled worker : 25

Total HP required : 12 HP

PLANT & MACHINERY

PARTICULARS	QTY.	RATE	AMOUNT IN RS.
Circular Saw 2 HP	1.00		60,000.00
Wood turning Lathe 2 HP	1.00		1,20,000.00
Stand Drilling machine	1.00		25,000.00
Top shearing machine 1 HP	1.00		40,000.00
Bench drilling machine	1.00		40,000.00
Wire twisting machine	1.00		37,000.00
Band saw 2 HP	1.00		70,000.00
Planer 2 HP (3 blade, high speed)	1.00		1,00,000.00
Jig saw 1 HP	1.00		54,000.00
Disc scanner 1 HP	1.00		29,000.00
Sander machine	1.00		25,000.00
Total			6,00,000.00

PROJECTED BALANCE SHEET

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
SOURCES OF FUND					
Capital Account	1.80	1.80	1.80	1.80	1.80
Retained Profit	4.54	10.09	16.69	22.36	28.78
Term Loan	9.44	7.08	4.72	2.36	0.00
Cash Credit	6.76	6.76	6.76	6.76	6.76
Sundry Creditors	1.85	2.11	2.38	2.38	2.64
Provisions & Other Liab	0.36	0.40	0.44	0.48	0.53
					40.51
TOTAL:	24.76	28.24	32.78	36.14	40.51
TOTAL : APPLICATION OF FUND	24.76	28.24	32.78	36.14	40.51
	24.76 10.49	28.24 10.49	10.49	10.49	10.49
APPLICATION OF FUND					
APPLICATION OF FUND Fixed Assets (Gross)	10.49	10.49	10.49	10.49	10.49
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep.	10.49 1.32	10.49 2.50	10.49 3.51	10.49 4.39	10.49 5.16
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets	10.49 1.32	10.49 2.50	10.49 3.51	10.49 4.39	10.49 5.16
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets	10.49 1.32 9.17	10.49 2.50 7.99	10.49 3.51 6.98	10.49 4.39 6.10	10.49 5.16 5.33
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors	10.49 1.32 9.17	10.49 2.50 7.99 5.61	10.49 3.51 6.98	10.49 4.39 6.10	10.49 5.16 5.33 7.06
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors Stock in Hand	10.49 1.32 9.17 4.69 4.67	10.49 2.50 7.99 5.61 5.34	10.49 3.51 6.98 6.32 6.00	10.49 4.39 6.10 6.67 2.38	10.49 5.16 5.33 7.06 2.64

PROJECTED PROFITABILITY STATEMENT

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
A) SALES					
Gross Sale	67.03	80.14	90.22	95.25	100.80
Total (A)	67.03	80.14	90.22	95.25	100.80
B) COST OF SALES					
Raw Mateiral Consumed	36.96	42.24	47.52	47.52	52.80
Elecricity Expenses	3.71	4.25	4.78	4.78	5.31
Repair & Maintenance	-	0.80	0.90	0.95	1.01
Labour & Wages	16.50	18.15	19.97	21.96	24.16
Depriciation	1.32	1.17	1.02	0.88	0.77
Consumables and Other Expenses	1.34	1.60	1.80	1.91	2.02
Cost of Production	59.84	68.21	75.98	78.00	86.05
Add: Opening Stock /WIP	-	2.82	3.23	3.63	0.00
Less: Closing Stock /WIP	2.82	3.23	3.63	0.00	0.00
Cost of Sales (B)	57.02	67.81	75.58	81.62	86.05
C) GROSS PROFIT (A-B)	10.01	12.33	14.64	13.63	14.75
	15%	15%	16%	14%	15%
D) Bank Interest (Term Loan)	0.81	0.98	0.71	0.44	0.17
Bank Interest (C.C. Limit)	0.68	0.68	0.68	0.68	0.68
E) Salary to Staff	2.64	2.90	3.19	3.51	3.87
F) Selling & Adm Expenses Exp.	1.34	1.60	1.80	1.91	2.02
TOTAL (D+E)	5.47	6.17	6.39	6.54	6.73
H) NET PROFIT	4.54	6.16	8.25	7.09	8.02
I) Taxation	-	0.62	1.65	1.42	1.60
J) PROFIT (After Tax)	4.54	5.55	6.60	5.67	6.41

COMPUTATION OF MANUFACTURING OF COIR BRUSH UNIT

Items to be Manufactured

COIR BRUSH UNIT

Manufacturing Capacity per machine per day	- 400	Brushes
	-	
No. of Working Hour	8	
No of Shift per day	2	
Two or Strift per day	2	
No of curling Machines	2	
No of Working Days per month	25	
No. of Working Day per annum	300	
Total Production per Annum	4,80,000.00	Coir Brushes
Year Year	Capacity	Coir Brushes
	Utilisation	
IST YEAR	70%	3,36,000
IIND YEAR	80%	3,84,000
IIIRD YEAR	90%	4,32,000
IVTH YEAR	90%	4,32,000
VTH YEAR	100%	4,80,000

COMPUTATION OF RAW MATERIAL

Item Name		Quantity of	Recovery	Unit Rate of	Total Cost
		Raw Material		/ MT	Per Annum (100%)
Raw Material	100%	4,80,000.00	100%	11.00	52.80
			Total (Rounded off	f in lacs)	52.80

Annual Consumption cost (In Lacs) 52.80

Raw Material Consumed	Capacity Utilisation	Amount (Rs.)
ICT VE A D	700/	2/ 0/
IST YEAR	70%	36.96
IIND YEAR	80%	42.24
IIIRD YEAR	90%	47.52
IVTH YEAR	90%	47.52
VTH YEAR	100%	52.80

COMPUTATION OF SALE

Particulars	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Op Stock	-	16,800	19,200	21,600	15
Production	3,36,000	3,84,000	4,32,000	4,32,000	4,80,000
	3,36,000	4,00,800	4,51,200	4,53,600	4,80,015
Less : Closing Stock	16,800	19,200	21,600	15	17
Net Sale	3,19,200	3,81,600	4,29,600	4,53,585	4,79,998
Sale Price per MT	21.00	21.00	21.00	21.00	21.00
	(7.00	20.11	20.00	25.25	400.00
Sale (in Lacs)	67.03	80.14	90.22	95.25	100.80

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	8.00	
Total Working Days		300	
Electricity Charges (8 Hrs Per day)			1,71,878.40
Add : Minimim Charges (@ 10%)			
(B) D.G. SET			
No. of Working Days		300	days
No of Working Hours		2	Hour per day
Total no of Hour		600	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		4,800	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		3.12	
Add : Lube Cost @15%		0.47	
Total		3.59	
Total cost of Power & Fuel at 100%			5.31
Year	Capacity		Amount
100.	Capacity		(in Lacs)
			, , ,
IST YEAR	70%		3.71
IIND YEAR	80%		4.25
IIIRD YEAR	90%		4.78
IVTH YEAR	90%		4.78
VTH YEAR	100%		5.31

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Finished Goods					
(15 Days requirement)	2.82	3.23	3.63	0.00	0.00
Raw Material					
(15 Days requirement)	1.85	2.11	2.38	2.38	2.64
Closing Stock	4.67	5.34	6.00	2.38	2.64

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars		Total
		Amount
Stock in Hand		4.67
Sundry Debtors		4.69
	Total	9.36
Sundry Creditors		1.85
Working Capital Requirement		7.51
Margin		0.75
Working Capital Finance		6.76

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Skilled Worker	-	-	-
Unskilled Worker	5,000.00	25	1,25,000.00
			1,25,000.00
Add: 10% Fringe Benefit			12,500.00
Total Labour Cost Per Month			1,37,500.00
Total Labour Cost for the year (In Rs. Lakhs)			16.50

BREAK UP OF SALARY

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 DEPRECIATION

Description	Land	Building/shed	Plant &	Furniture	TOTAL
			Machinery		
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased	-	-	-	-
Addition	-	4.00	6.00	0.49	10.49
	-	4.00	6.00	0.49	10.49
Less : Depreciation	-	0.40	0.90	0.02	1.32
WDV at end of 1st year	-	3.60	5.10	0.47	9.17
Additions During The Year	-	-	-	-	-
	-	3.60	5.10	0.47	9.17
Less : Depreciation	-	0.36	0.77	0.05	1.17
WDV at end of IInd Year	-	3.24	4.34	0.42	7.99
Additions During The Year	-	-	1	=	-
	-	3.24	4.34	0.42	7.99
Less : Depreciation	-	0.32	0.65	0.04	1.02
WDV at end of IIIrd year	-	2.92	3.68	0.38	6.98
Additions During The Year	-	-	-	-	-
	-	2.92	3.68	0.38	6.98
Less : Depreciation	-	0.29	0.55	0.04	0.88
WDV at end of IV year	-	2.62	3.13	0.34	6.10
Additions During The Year	-	-	-	-	-
	-	2.62	3.13	0.34	6.10
Less : Depreciation	-	0.26	0.47	0.03	0.77
WDV at end of Vth year	-	2.36	2.66	0.31	5.33

REPAYMENT SCHEDULE OF TERM LOAN

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
IST YEAR	Opening Balance						
	Ist Quarter	-	9.44	9.44	-	-	9.44
	lind Quarter	9.44	-	9.44	0.27	-	9.44
	IIIrd Quarter	9.44	-	9.44	0.27	-	9.44
	Ivth Quarter	9.44	-	9.44	0.27	-	9.44
					0.81	-	
IIND YEAR	Opening Balance						
	Ist Quarter	9.44	-	9.44	0.27	0.59	8.85
	lind Quarter	8.85	-	8.85	0.25	0.59	8.26
	IIIrd Quarter	8.26	-	8.26	0.24	0.59	7.67
	Ivth Quarter	7.67		7.67	0.22	0.59	7.08
					0.98	2.36	
IIIRD YEAR	Opening Balance						
	Ist Quarter	7.08	-	7.08	0.20	0.59	6.49
	lind Quarter	6.49	-	6.49	0.19	0.59	5.90
	IIIrd Quarter	5.90	-	5.90	0.17	0.59	5.31
	Ivth Quarter	5.31		5.31	0.15	0.59	4.72
					0.71	2.36	
IVTH YEAR	Opening Balance						
	Ist Quarter	4.72	-	4.72	0.14	0.59	4.13
	lind Quarter	4.13	-	4.13	0.12	0.59	3.54
	IIIrd Quarter	3.54	-	3.54	0.10	0.59	2.95
	Ivth Quarter	2.95		2.95	0.08	0.59	2.36
					0.44	2.36	
VTH YEAR	Opening Balance						
	Ist Quarter	2.36	-	2.36	0.07	0.59	1.77
	lind Quarter	1.77	-	1.77	0.05	0.59	1.18
	IIIrd Quarter	1.18	-	1.18	0.03	0.59	0.59
	Ivth Quarter	0.59		0.59	0.02	0.59	0.00
l					0.17	2.36	

CALCULATION OF D.S.C.R

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
CASH ACCRUALS	5.87	6.72	7.61	6.56	7.18
Interest on Term Loan	0.81	0.98	0.71	0.44	0.17
Total	6.68	7.70	8.33	7.00	7.35
		•			
REPAYMENT					
Instalment of Term Loan	2.36	2.36	2.36	2.36	2.36
Interest on Term Loan	0.81	0.98	0.71	0.44	0.17
Total	3.17	3.34	3.07	2.80	2.53
DEBT SERVICE COVERAGE RATIO	2.10	2.30	2.71	2.50	2.91
AVEDACE D.C.C.D.			0.50		
AVERAGE D.S.C.R.			2.50		

BREAK EVEN POINT ANALYSIS

Year	I	II	III	IV	V
Net Sales & Other Income	67.03	80.14	90.22	95.25	100.80
Less : Op. WIP Goods	-	2.82	3.23	3.63	0.00
Add : CI. WIP Goods	2.82	3.23	3.63	0.00	0.00
Total Sales	69.85	80.54	90.62	91.63	100.80
Variable & Semi Variable Exp.					
Tarradio a comi Tarradio Exp.					
Raw Material & Tax	36.96	42.24	47.52	47.52	52.80
Electricity Exp/Coal Consumption at 85%	3.16	3.61	4.06	4.06	4.51
Manufacturing Expenses 80%	1.07	1.92	2.17	2.29	2.42
Wages & Salary at 60%	11.48	12.63	13.90	15.29	16.81
Selling & adminstrative Expenses 80%	1.07	1.28	1.44	1.52	1.61
Intt. On Working Capital Loan	0.68	0.68	0.68	0.68	0.68
Total Variable & Semi Variable Exp	54.42	62.36	69.76	71.35	78.83
Contribution	15.43	18.18	20.86	20.28	21.97
F' - 10 C'F' - 15					
Fixed & Semi Fixed Expenses					
Manufacturing Expenses 20%	0.27	0.48	0.54	0.57	0.60
Electricity Exp/Coal Consumption at 15%	0.56	0.64	0.72	0.72	0.80
Wages & Salary at 40%	7.66	8.42	9.26	10.19	11.21
Interest on Term Loan	0.81	0.98	0.71	0.44	0.17
Depreciation	1.32	1.17	1.02	0.88	0.77
Selling & adminstrative Expenses 20%	0.27	0.32	0.36	0.38	0.40
Total Fixed Expenses	10.89	12.02	12.61	13.18	13.95
Conscitu Hilizotian	700/	80%	90%	90%	1000/
Capacity Utilization OPERATING PROFIT	70% 4.54	6.16	8.25	7.09	100% 8.02
BREAK EVEN POINT	4.54	53%	54%	59%	63%
BREAK EVEN SALES	49.29	53.24	54.79	59.57	64.01



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