PROJECT REPORT

Of

COIR/COCONUT FIBRE EXTRACTION

PURPOSE OF THE DOCUMENT

This particular pre-feasibility is regarding **COIR/COCONUT FIBRE EXTRACTION**

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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		PRO.	JECT AT A GLANCE		
1	Name of the Entreprenuer		xxxxxx		
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 Extraction Unit		
6	Name of the project / business activity proposed	:	Coir Extraction Unit		
7	Cost of Project	:	Rs25.00lacs		
8	Means of Finance Term Loan KVIC Margin Money Own Capital Working Capital	-	Rs.13.5 Lacs As per Project Eligibility Rs.2.5 Lacs Rs.9 Lacs		
9	Debt Service Coverage Ratio	:	1.71		
10	Pay Back Period	:	5	Years	
11	Project Implementation Period	:	8	Months	
12	Break Even Point	:	44%		
13	Employment	:	12	Persons	
14	Power Requirement	:	40.00	HP	
15	Major Raw materials	:	Coir Extraction Unit		
16	Estimated Annual Sales Turnover	:	119.70	Lacs	
16	Detailed Cost of Project & Means of Finance				
	COST OF PROJECT		Particulars Land Building & Civil Work (1200 Sq Ft) Plant & Machinery Furniture & Fixtures Pre-operative Expenses Working Capital Requirement Total	(Rs. In Lacs) Amount Rented/Owned 2.00 12.55 0.45 - 10.00 25.00	
	MEANS OF FINANCE		Particulars Own Contribution @10% Term Loan Workign Capital Finance	Amount 2.50 13.50 9.00	
			Total	25.00	
			KVIC Margin Monery Urban	General 15%	Special 25%

KVIC Margin Monery Urban

KVIC Margin Monery Rural

25%

35%

PLANT & MACHINERY

PARTICULARS	QTY.	RATE	AMOUNT IN RS.
Disintegrator 10 HP	1.00	230000	230000
Decorticator 30 HP each	1.00	341000	341000
Screener 2HP	1.00	70000	70000
Bailing Press 5 HP	1.00	160000	160000
Conveyors (as per the requirement) 4 HP	1.00	364000	364000
Well & Pump set 2 HP		90000	90000
Sub- Total			12,55,000.00

TOTAL 12,55,000.00

PROJECT PROFILE FOR COIR FIBRE EXTRACTION UNIT



INTRODUCTION

Coir product by virtue of its eco-friendly and biodegradable qualities are increasingly getting world wide acceptance. The basic raw material of the industry, i.e., "Coconut husk" is abundantly available at negligible cost in major coconut growing states of India. It is estimated that as of now only 40%-45% of the raw material availability i.e., the coconut husk is put into coir industrial use. Hence, there is a vast unused potentiality available in coconut growing states of India for extraction of coir fiber and its further processing.

PROCESS OF MANUFACTURE

In the common method of mechanical extraction of coir fibre from the coconut husk, the husks sprinkled with water and kept for a few hours are first processed in a buster (disintegrator) by which about 60% disintegration of fibre takes place. The husk fed from the chute provided at the top of the machine are smashed against a wall or wooden plank fixed. Followed to this, the disintegrated husks are fed to a beater to complete the extraction of fibre. The fibre thus extracted is cleaned using a revolving screener/sifter. On an average about 25000 husk could be processed per shift of 8 hours in this method.

MARKET

Coir fibre extracted from coconut husk has extensive use in almost all coir activities and it is the basic raw material for manufacturing of different varieties of Coir yarn. The economic and pollution control issues have almost arrested the traditional way of coir retting and fibre extractions. Hence, now a day's industry purely depends upon the fibre produced by mechanical device from Green/Dry coconut husk. In this context, fibres extracted under this method have good demands and market in order to carry out all coir based activities.

BASIS AND PRESUMTIONS

- The Project Profile is based on 8 working hours in a day and 25 days in a month and the Break Even efficiency has been calculated on 75%, 80%, 85% and 90% capacity utilization.
- The rate of interest both for fixed asset and working capital have been taken as
 11.5% p.a.
- Interest for margin money is calculated 1st half year (considering the time taken for margin money to be placed as FDR)
- The Margin money is deducted from the 4th year beginning.

TECHNICAL ASPECTS

Installed Production capacity per shift : 2.5 tons of coir fiber per day

Working days p.a : 300 days

Husk requirement of per ton of fiber : 12000 husk per ton

Cost of husk : Rs.1.80 per husk

Average cost of raw material : Rs.21600 per ton of fiber

Capacity Utilization

-First year : 60%

-Second year : 65%

-Third year : 70%

-Fourth year : 75%

-Fifth year : 80%

Interest on term loan : 11.5%

Interest on Working capital : 11.5%

Average Sales realization : Rs.28000 per ton of coir fiber

Lease rental Cost : Rs.3000

Depreciation of machinery : 15%

Depreciation of Building : 10%

Manpower requirement

Skilled workers : 4

Semi-Skilled workers : 6

Admin & sales personnel : 2

Total HP required : 40 HP

PROJECTED BALANCE SHEET

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	4.32	8.40	12.87	18.05	23.81
Term Loan	13.50	10.13	6.75	3.38	-
Cash Credit	9.00	9.00	9.00	9.00	9.00
Sundry Creditors	2.27	2.46	2.65	2.84	3.02
Provisions & Other Liab	0.36	0.40	0.44	0.48	0.53
				2/ 2/	20.07
TOTAL :	31.95	32.88	34.20	36.24	38.87
APPLICATION OF FUND					
APPLICATION OF FUND Fixed Assets (Gross)	15.00	15.00	15.00	15.00	15.00
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep.	15.00 2.11	15.00 3.93	15.00 5.49	15.00 6.82	15.00 7.97
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APPLICATION OF FUND Fixed Assets (Gross) Gross Dep.	15.00 2.11	15.00 3.93	15.00 5.49	15.00 6.82	15.00 7.97
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets	15.00 2.11	15.00 3.93	15.00 5.49	15.00 6.82	15.00 7.97
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets	15.00 2.11 12.90	15.00 3.93 11.07	15.00 5.49 9.51	15.00 6.82 8.18	15.00 7.97 7.03
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors	15.00 2.11 12.90	15.00 3.93 11.07	15.00 5.49 9.51 4.88	15.00 6.82 8.18	15.00 7.97 7.03 5.58
APPLICATION OF FUND Fixed Assets (Gross) Gross Dep. Net Fixed Assets Current Assets Sundry Debtors Stock in Hand	15.00 2.11 12.90 3.99 8.28	15.00 3.93 11.07 4.53 8.97	15.00 5.49 9.51 4.88 9.66	15.00 6.82 8.18 5.23 10.35	15.00 7.97 7.03 5.58 11.04

PROJECTED CASH FLOW STATEMENT

	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
SOURCES OF FUND					
Share Capital	2.50	-			
Reserve & Surplus	4.32	4.54	5.58	6.48	7.20
Depriciation & Exp. W/off	2.11	1.82	1.56	1.34	1.15
Increase in Cash Credit	9.00	-	-	-	-
Increase In Term Loan	13.50	-	-	-	-
Increase in Creditors	2.27	0.19	0.19	0.19	0.19
Increase in Provisions	0.36	0.04	0.04	0.04	0.05
TOTAL:	34.06	6.58	7.37	8.04	8.58
APPLICATION OF FUND					
Increase in Fixed Assets	15.00	-	-	-	-
	15.00 8.28	- 0.69	- 0.69	- 0.69	- 0.69
Increase in Fixed Assets			- 0.69 0.35	- 0.69 0.35	- 0.69 0.35
Increase in Fixed Assets Increase in Stock	8.28	0.69			0.35
Increase in Fixed Assets Increase in Stock Increase in Debtors	8.28 3.99	0.69 0.54	0.35	0.35	
Increase in Fixed Assets Increase in Stock Increase in Debtors Increase in Deposits & Adv	8.28 3.99	0.69 0.54 0.25	0.35 0.28	0.35 0.30	0.35 0.33
Increase in Fixed Assets Increase in Stock Increase in Debtors Increase in Deposits & Adv Repayment of Term Loan	8.28 3.99	0.69 0.54 0.25 3.38	0.35 0.28 3.38	0.35 0.30 3.38	0.35 0.33 3.38
Increase in Fixed Assets Increase in Stock Increase in Debtors Increase in Deposits & Adv Repayment of Term Loan Taxation	8.28 3.99 2.50 -	0.69 0.54 0.25 3.38 0.45	0.35 0.28 3.38 1.12	0.35 0.30 3.38 1.30	0.35 0.33 3.38 1.44 6.19
Increase in Fixed Assets Increase in Stock Increase in Debtors Increase in Deposits & Adv Repayment of Term Loan Taxation TOTAL:	8.28 3.99 2.50 -	0.69 0.54 0.25 3.38 0.45	0.35 0.28 3.38 1.12	0.35 0.30 3.38 1.30	0.35 0.33 3.38 1.44

PROJECTED PROFITABILITY STATEMENT

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
A) SALES					
Gross Sale	119.70	135.98	146.48	156.98	167.48
Total (A)	119.70	135.98	146.48	156.98	167.48
B) COST OF SALES					
Raw Mateiral Consumed	97.20	105.30	113.40	121.50	129.60
Elecricity Expenses	3.44	3.72	4.01	4.30	4.58
Repair & Maintenance	-	1.36	1.46	1.57	1.67
Labour & Wages	8.18	9.00	9.90	10.89	11.98
Depriciation	2.11	1.82	1.56	1.34	1.15
Consumables and Other Expenses	2.39	2.72	2.93	3.14	3.35
Cost of Production	113.32	123.93	133.27	142.74	152.33
Add: Opening Stock /WIP	-	5.04	5.46	5.88	6.30
Less: Closing Stock /WIP	5.04	5.46	5.88	6.30	6.72
Cost of Sales (B)	108.28	123.51	132.85	142.32	151.91
C) GROSS PROFIT (A-B)	11.42	12.47	13.63	14.66	15.56
	10%	9%	9%	9%	9%
D) Bank Interest (Term Loan)	1.16	1.41	1.02	0.63	0.24
Bank Interest (C.C. Limit)	0.90	0.90	0.90	0.90	0.90
E) Salary to Staff	2.64	2.90	3.19	3.51	3.87
F) Selling & Adm Expenses Exp.	2.39	2.72	2.93	3.14	3.35
TOTAL (D+E)	7.10	7.93	8.04	8.18	8.36
H) NET PROFIT	4.32	4.54	5.58	6.48	7.20
I) Taxation	-	0.45	1.12	1.30	1.44

COMPUTATION OF MANUFACTURING OF COIR FIBRE EXTRACTION UNIT

Items to be Manufactured

COIR FIBRE EXTRACTION UNIT

Manufacturing Capacity	COIR FIBRE EX	2.50	MT per day
	-		
No. of Working Hour		8	
No of Working Days per month		25	
N. S.W. d. L. D. C.		200	
No. of Working Day per annum		300	
Total Production per Annum		750.00	MT
Year		Capacity	Sheet
		Utilisation	
IST YEAR		60%	450
IIND YEAR		65%	488
IIIRD YEAR		70%	525
IVTH YEAR		75%	563
VTH YEAR		80%	600
VTH YEAR		80%	60

COMPUTATION OF RAW MATERIAL

Item Name		Quantity of Raw Material		Recovery	Unit Rate of / MT	Total Cost Per Annum (100%)
Raw Material	100%		750	100%	21,600.00	162.00
Husk requirement of per ton of fiber	12000	Husks				
Cost of Husk Avarage cost of Raw material per Ton	1.80	Rs				
fo fibre	21,600.00	Rs per ton				
				Total (Rounded off	in lacs)	162.00

Annual Consumption cost (In Lacs) 162.00

Capacity	Amount (Rs.)	
Utilisation		
60%	97.20	
65%	105.30	
70%	113.40	
75%	121.50	
80%	129.60	
	Utilisation 60% 65% 70% 75%	

COMPUTATION OF SALE

IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
-	23	24	26	28
450	488	525	563	600
450	510	549	589	628
23	24	26	28	30
428	486	523	561	598
28,000.00	28,000.00	28,000.00	28,000.00	28,000.00
119.70	135.98	146.48	156.98	167.48
	450 450 23 428 28,000.00	- 23 450 488 450 510 23 24 428 486 28,000.00 28,000.00	- 23 24 450 488 525 450 510 549 23 24 26 428 486 523 28,000.00 28,000.00	- 23 24 26 450 488 525 563 450 510 549 589 23 24 26 28 428 486 523 561 28,000.00 28,000.00 28,000.00

COMPUTATION OF ELECTRICITY

OOM OTATION OF ELECTRICITY			
(A) POWER CONNECTION			
Total Working Hour per day	Hours	8	
Electric Load Required	HP	40	
Load Factor		0.7460	
Electricity Charges	per unit	8.00	
Total Working Days		300	
Electricity Charges (8 Hrs Per day)			5,72,928.00
Add : Minimim Charges (@ 10%)			
(B) D.G. SET	+		
No. of Working Days		300	days
No of Working Hours		5	Hour per day
Total no of Hour		1,500	
Diesel Consumption per Hour		8	
Total Consumption of Diesel		12,000	
Cost of Diesel		65.00	Rs. /Ltr
Total cost of Diesel		7.80	
Add : Lube Cost @15%		1.17	
Total		-	
Total cost of Power & Fuel at 100%			5.73
Year	Capacity		Amount
			(in Lacs)
IST YEAR	60%		3.44
IIND YEAR	65%		3.72
IIIRD YEAR	70%		4.01
IVTH YEAR	75%		4.30
VTH YEAR	80%		4.58

COMPUTATION OF CLOSING STOCK & WORKING CAPITAL

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
Finished Goods					
(15 Days requirement)	5.04	5.46	5.88	6.30	6.72
Raw Material					
(10 Days requirement)	3.24	3.51	3.78	4.05	4.32
Closing Stock	8.28	8.97	9.66	10.35	11.04

COMPUTATION OF WORKING CAPITAL REQUIREMENT

Particulars		Total
		Amount
Stock in Hand		8.28
Sundry Debtors		3.99
	Total	12.27
Sundry Creditors		2.27
Working Capital Requirement		10.00
Margin		1.00
Working Capital Finance		9.00

BREAK UP OF LABOUR

Particulars	Wages	No of	Total
	Per Month	Employees	Salary
Skilled Worker	8,000.00	4	32,000.00
Unskilled Worker	5,000.00	6	30,000.00
			62,000.00
Add: 10% Fringe Benefit			6,200.00
Total Labour Cost Per Month			68,200.00
Total Labour Cost for the year (In Rs. Lakhs)			8.18

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	Plant &	Furniture	TOTAL
			Machinery		
Rate of Depreciation		10.00%	15.00%	10.00%	
Opening Balance	Leased	-	-	-	-
Addition	-	2.00	12.55	0.45	15.00
	-	2.00	12.55	0.45	15.00
Less : Depreciation	-	0.20	1.88	0.02	2.11
WDV at end of 1st year	-	1.80	10.67	0.43	12.90
Additions During The Year	-	-	-	-	-
	-	1.80	10.67	0.43	12.90
Less : Depreciation	-	0.18	1.60	0.04	1.82
WDV at end of IInd Year	-	1.62	9.07	0.38	11.07
Additions During The Year	-	-	-	-	-
	-	1.62	9.07	0.38	11.07
Less : Depreciation	-	0.16	1.36	0.04	1.56
WDV at end of IIIrd year	-	1.46	7.71	0.35	9.51
Additions During The Year	-	-	-	-	-
	-	1.46	7.71	0.35	9.51
Less : Depreciation	-	0.15	1.16	0.03	1.34
WDV at end of IV year	-	1.31	6.55	0.31	8.18
Additions During The Year	-	-	-	-	-
	-	1.31	6.55	0.31	8.18
Less : Depreciation	-	0.13	0.98	0.03	1.15
WDV at end of Vth year	-	1.18	5.57	0.28	7.03

REPAYMENT SCHEDULE OF TERM LOAN

Year	Particulars	Amount	Addition	Total	Interest	Repayment	CI Balance
IST YEAR	Opening Balance			-			-
	Ist Quarter	-	13.50	13.50	-	-	13.50
	lind Quarter	13.50	-	13.50	0.39	-	13.50
	IIIrd Quarter	13.50	-	13.50	0.39	-	13.50
	Ivth Quarter	13.50	-	13.50	0.39	-	13.50
					1.16	-	
IIND YEAR	Opening Balance						
	Ist Quarter	13.50	-	13.50	0.39	0.84	12.66
	lind Quarter	12.66	-	12.66	0.36	0.84	11.81
	IIIrd Quarter	11.81	-	11.81	0.34	0.84	10.97
	lvth Quarter	10.97		10.97	0.32	0.84	10.13
					1.41	3.38	
IIIRD YEAR	Opening Balance						
	Ist Quarter	10.13	-	10.13	0.29	0.84	9.28
	lind Quarter	9.28	-	9.28	0.27	0.84	8.44
	IIIrd Quarter	8.44	-	8.44	0.24	0.84	7.59
	Ivth Quarter	7.59		7.59	0.22	0.84	6.75
					1.02	3.38	
IVTH YEAR	Opening Balance						
	Ist Quarter	6.75	-	6.75	0.19	0.84	5.91
	lind Quarter	5.91	-	5.91	0.17	0.84	5.06
	IIIrd Quarter	5.06	-	5.06	0.15	0.84	4.22
	Ivth Quarter	4.22		4.22	0.12	0.84	3.38
					0.63	3.38	
VTH YEAR	Opening Balance						
	Ist Quarter	3.38	-	3.38	0.10	0.84	2.53
	lind Quarter	2.53	-	2.53	0.07	0.84	1.69
	IIIrd Quarter	1.69	-	1.69	0.05	0.84	0.84
	Ivth Quarter	0.84		0.84	0.02	0.84	-
					0.24	3.38	

CALCULATION OF D.S.C.R

PARTICULARS	IST YEAR	IIND YEAR	IIIRD YEAR	IVTH YEAR	VTH YEAR
CASH ACCRUALS	6.43	5.91	6.03	6.52	6.91
Interest on Term Loan	1.16	1.41	1.02	0.63	0.24
Total	7.59	7.31	7.05	7.15	7.15
<u>REPAYMENT</u>					
Instalment of Term Loan	3.38	3.38	3.38	3.38	3.38
Interest on Term Loan	1.16	1.41	1.02	0.63	0.24
Total	4.54	4.78	4.39	4.01	3.62
. 5.4.	1.01	1.70	1.07	1.01	0.02
DEBT SERVICE COVERAGE RATIO	1.67	1.53	1.60	1.78	1.98
AVERAGE D.S.C.R.			1.71		

BREAK EVEN POINT ANALYSIS

Year	I	II	III	IV	V
Net Sales & Other Income	119.70	135.98	146.48	156.98	167.48
Less : Op. WIP Goods	-	5.04	5.46	5.88	6.30
Add : CI. WIP Goods	5.04	5.46	5.88	6.30	6.72
Total Sales	124.74	136.40	146.90	157.40	167.90
Variable & Semi Variable Exp.					
variable & Jenn variable Exp.					
Raw Material & Tax	97.20	105.30	113.40	121.50	129.60
Electricity Exp/Coal Consumption at 85%	2.92	3.17	3.41	3.65	3.90
Manufacturing Expenses 80%	1.92	3.26	3.52	3.77	4.02
Wages & Salary at 60%	6.49	7.14	7.86	8.64	9.51
Selling & adminstrative Expenses 80%	1.92	2.18	2.34	2.51	2.68
Intt. On Working Capital Loan	0.90	0.90	0.90	0.90	0.90
Total Variable & Semi Variable Exp	111.35	121.95	131.43	140.98	150.60
Contribution	13.39	14.45	15.47	16.42	17.29
Fixed & Semi Fixed Expenses					
Manufacturing Expenses 20%	0.48	0.82	0.88	0.94	1.00
Electricity Exp/Coal Consumption at 15%	0.52	0.56	0.60	0.64	0.69
Wages & Salary at 40%	4.33	4.76	5.24	5.76	6.34
Interest on Term Loan	1.16	1.41	1.02	0.63	0.24
Depreciation	2.11	1.82	1.56	1.34	1.15
Selling & adminstrative Expenses 20%	0.48	0.54	0.59	0.63	0.67
Total Fixed Expenses	9.07	9.91	9.88	9.94	10.09
Capacity Utilization	60%	65%	70%	75%	80%
OPERATING PROFIT	4.32	4.54	5.58	6.48	7.20
BREAK EVEN POINT	41%	45%	45%	45%	47%
BREAK EVEN SALES	84.50	93.57	93.87	95.32	97.96



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