

कयर उद्योग के नवीकरण, आधुनिकीकरण  
एवं प्रौद्योगिकी उन्नयन

REJUVENATION, MODERNIZATION  
& TECHNOLOGY UPGRADATION  
OF THE COIR INDUSTRY

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छिल्का निकालने हेतु परियोजना प्रस्ताव  
HUSK DECORTICATING PROJECT PROPOSAL



कयर बोर्ड

COIR BOARD

(सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय, भारत सरकार

Ministry of MS&ME, Govt. of India)

पी बी नं / P.B. No. 1752, एम जी रोड / M.G. Road, कोच्ची / Kochi-16

ई-मेल / E-Mail : [coir@md2.vsnl.net.in](mailto:coir@md2.vsnl.net.in)

वेब / Web : [www.coirboard.nic.in](http://www.coirboard.nic.in), [www.coirboard.gov.in](http://www.coirboard.gov.in)

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**HUSK DECORTICATING PROJECT  
PROPOSAL**

for Credit facilities under the

Rejuvenation, Modernization & Technological  
Upgradation of the Coir Industry

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Name of the Unit:

Address:

Submitted to: Name of the Bank:

Branch:

Project Report of the Husk Decorticating under the Rejuvenation,  
Modernization and Technological Up-gradation of the Coir Industry

Husk decorticating - PROJECT

Abstract

Coir Board did conduct an intricate study to understand the dynamics of the Coir Industry. Many of the poorest people in Southern India work in the Coir Industry. Coir products are mainly agrarian in character and its basis raw material is Coconut fibre. Coconut plantations in southern India are in a state of flux, and to recover the lost ground, the Central Government in its 2008-9 budget has proposed a unique Rs 4700 Cr scheme to aid, about the Coconut replantation.

Coir Industry underwent a series of catastrophes. One sector which was badly hit by the tsunami was this sector. The dreaded Chicken Gunya, which struck by its devastating fury, took a heavy toll of the Coir worker.

Coir Board's study which explored the market dynamics that shaped the Coir Industry, both domestically and internationally, came to the conclusion that only an increased income through much-added augmented facilities, tools, and constructing a shed to enable the worker to concentrate on his work for more number of days than the pitiable 100 days in a year, would reduce the vulnerabilities. If the Coir Industry at the lower end of the pyramid has to grow, and sustain production, it needs to acquire skills, quality controls, networks and technology based machines and equipments. These series of measures would enable the industry to meet the market needs.

It is true that a large number of workmen in parts of Kerala, Tamilnadu, Andhra and Karnataka, Orissa, West Bengal, depend on the Coir Industry to earn a living. Furthermore, more than 80% of these workers are gender specific. The women: men ratio is of the order of 80:20. Most of the Coir industries are dotted in the rural areas. Coir, or coconut fibre, plays an important role in sustaining the livelihoods of a large number of people in the Southern, and North-Western provinces of India. Coir fibre extraction, spinning, and weaving, and the processing of other coir products are a source of employment for many people – women in particular – who have few other options available to them. The coir industry is also an important source of income for women in the fishing communities along the western and southern coasts. The industry plays a unique role in expanding the national economy as well as in consolidating India's position within international markets for coir products. Furthermore, the industry has an indirect impact on the economy through its influence on the transportation, marketing, and financial businesses.

Recent research has shown that markets play an important role in livelihood development and poverty reduction. Markets and the relationships among stakeholders are therefore an important aspect of livelihood analysis, and recognition of the failure of markets to serve the interests of the poor is crucial in such an analysis. Given the significance of the coir industry to the income of the people in southern India, it is important to understand the market dynamics that shape the industry within local and global settings with a view toward bringing sustainable development to the whole sector.

## REVIEW OF THE COIR INDUSTRY

In India, the coir industry is characterized by a traditional, labour-intensive, largely female, white-fibre industry in Kerala and the more modernized, mechanized, export-oriented, brown-fibre industry in the Tamilnadu and Karnataka. (Pliable white fibres are harvested from the husks of green coconuts and stiffer brown fibres are extracted from husks of mature nuts.) An estimated 40 percent of fibre comes from traditional coir areas in India, whereas much of the production and 85 percent of the fibre units are based in Kerala. There has been large concentration of coir pith manufacturing units in Tamilnadu, and Karnataka has sound Rubberized mattresses making units. The current India's annual production of coconut is around 12.4 billion nuts.

### OVERVIEW OF GLOBAL COIR INDUSTRY MARKETS

Sri Lanka is the single largest supplier of brown coir fibre to the world market, and together with India accounts for almost 90 percent of global coir exports. An estimated 510,000 metric tons of coir fibre are produced each year around the world, according to the United Nations Food and Agriculture Organization (UNFAO). Global demand for coir products declined between the 1980s and 1990s, as synthetic fibres found widespread popularity as a substitute for natural coir products. Since the late 1990s, however, that trend has reversed, with coir products again finding favour among consumers.

Greater demand for woven coir mats in India in recent years has fueled a steady rise in the global coir market. Tufted Mats are also posting steady growth. Growth of the global market has also been driven by growing demand for natural fibre products from consumers in developed countries as well as in China and other emerging markets. In addition, there is growing global demand for natural geotextiles (erosion-control materials), good quality twine for horticultural products, and coir pith as a substitute for peat. Yet

synthetic fibres continue to threaten the coir industry globally, despite rising awareness of the health and environmental benefits of natural fibres. Stagnating international coir prices have also eroded the profitability of coir production

India produces four main categories of coir fibre: bristle, mat, mixed, and mattress. These fibres are either sold as raw material in the international market or processed into products such as brooms, brushes, rope, twine, matting, woven and stitched geotextiles, rubberized coir mattresses, and upholstery. Coir-related exports accounted for 10 percent of Indian agricultural exports, over 0.12 percent of all exports, and 0.001 percent of GDP in India in 2008. Total export earnings of the entire coconut and coir industry in 2008 were \$141 million in 2006-7. Fibre export earnings increased by 24 percent in 2006-7, while fibre pith exports increased by 113 percent between 2002-7. The Indian Inland market has a turnover of coir products over Rs 1300 Cr in 2006-7, a major chunk coming from the Coir mattresses industry which has been growing with an effective growth rate of 20%+. The basis raw material required is the Coir Yarn, which is supplemented by the Spinning industry.

#### **Coir Industry's Paradigm shift:**

Coir Industry underwent a paradigm shift during the third millennium. In order to understand this shift, we need to have better understanding of the existing local and global market channels for coir products at different levels of production, including small-, medium-, and relatively large-scale producers and cooperatives; further, we need to analyze the current policies pursued by the government and international agencies, including the World Trade Organization, and their effect on the coir industry, and to identify strategies that can help ensure that poor workers benefit as the coir industry increases its capacity to serve a global marketplace.

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Coir Board came to the conclusion that there was a need to bring in the smaller players who were at the lower orb, and through methodic steps, these Coir workers needed financial support to first, acquire new machinery by throwing away the dilapidated, useless, worn-out ones which has served more than 80 years of life, help them construct a roof over their workplace so that rain or shine, they could carry on with their occupation undeterred, throughout the year. With the present penury situation that they are placed in, they have no way of augmenting their existing savings to buy even an ordinary tool, much less invest in buying machineries. Coir Board's present scheme, will help the vital sector, to augment his capacity, increase his production, expand his business boundary, establish market links with the help and support of Coir Board so that he is assured of a decent income.

Capital infusion is an inevitability at the lower fulcrum of the industry; skill upgradation, technological upgradation, innovative tools very necessary for Coir Industry's orderly growth; entrepreneur development a must if the spinning worker has to graduate to a producer in his own right; and, market linkages between the spinner and the intermediary manufacturer, if the industry has to achieve its higher productivity, fetching him higher income.

#### **Rejuvenation, Modernization and Technology Up-gradation Scheme specifics:**

- To modernize the Husk De-corticating tiny unit by providing them with new machineries to supplement their dilapidated/old ones;
- To assist the Husk Decorticating unit members to acquire proficiency in the operation of modern machines through training schemes;
- To enable the Coir worker to upgrade their status to a "producer" of goods and earning wages and profits as against their earning 'wages' alone;

- To achieve higher utilization of husk from the general 40%;
- To increase utilization of Raw materials abundantly available for effective use by the processing industry;
- To beget value for the materials producer by the spinner/tiny-household sectors;
- To promote opportunities for technological innovation, development, knowledge creation, market access amongst the various stakeholders in the Coir sector;
- To create a cadre of specialized group of Coir employees, upgrading their skills, raising their standard of living;
- To provide social security to the workforce;
- To create inclusive growth for the vulnerable sections of society like SC/ST and development of the NER;
- To undertake periodic social auditing; etc.

#### **Husk Decorticating Unit:**

There are 18 varieties of coconut palms, but the husks from three varieties only are suitable for coir production. The most important commercial utilization of husk is for the manufacture of Coir. Husks are also used as fuel, as surface and seedling pit mulch and for burying in coconut gardens as fertilizer due to the high content of Potash.

Husk from near ripe to ripe nuts are reported to give best fibres. There is not much difference in the yield of the fibre with the maturity of nuts but there are differences in fibre quality. 12 month old nuts give fibres which are more brittle and of brownish colour. The fibres from 10-11 months old husks possess good elasticity and good colour. The fibre from less mature husks is inferior, as a lot of pith remains adhering to the fibre and exhibit a pale yellow colour and exceedingly thin. The colour intensity and the thickness of the fibre increase with age. The average fibre yield is dependent on the geographical area and the variety of coconut trees.



Decortication process involves thrashing out of the husks against beater arms mounted on central shaft spirally in beating chambers/drums. The husks are fed to the beater/decorticator at one end and the fibre is ejected on the other end due to the spiral arrangement of the beater arms and the high revolution taking place during operation. The fibre obtained in this process is in a mixed form and is known as decorticated Fibre. Due to severe thrashing in the process of extraction, the fibre obtained is observed to lose part of its resiliency. Through the Burster/Beater Combination, around 10,000 husks could be processed per shift of 8 hours. Under Crusher-Decorticator-Sifter Method, around 8000 husks could be processed per shift of 8 hour operation.

The tiny product manufacturing sector in the Coir Industry is the feed sector for the export oriented units. There are about 25,000 organized units functioning in the Coir sector, which include making intermediaries to be used by finishing industries; there are also more than 2 lakh un-organized units in the tiny/household sector.

The poor conditions of the machinery used by the household units have drastically affected the productivity and quality of end products which often face the threat of being rejected by the finishing units. The Export sector is facing acute shortage of quality products towards meeting the demand-supply of export, finishing units, due to the incapacity of these units to enhance their present productivity levels which is the lowest in the Industrial economy, making them uncompetitive in the international markets.

The new machines which would supplement the existing ones would reduce drudgery, and the sheds constructed would give them opportunity to work during monsoons, contributing to higher productivity, manufacture of quality goods, reduction of drudgery, higher value for their products, increasing the income earning

capacity of these workers. This would also generate higher employment including new employment.

The work force engaged for the production activities in this sector would mainly be family members of the entrepreneur. There will be need for skilled and unskilled labour to man the operations.

#### Standard Cost of a Husk Decortivating Manufacturing Unit

Sl.No.	Item	Cost
1.	Disintegrator	Rs 80,000
2.	Decorticator	Rs 2,00,000
2.	Electrical Accessories	Rs 30,000
3.	Screener	Rs 50,000
4.	Work shed	Rs 1,40,000
	<b>Total</b>	<b>Rs.5,00,000</b>

#### Outlay for Husk Decortivating Manufacturing Unit

Individual Investment :	Rs 25,000.00
Term Loan:	Rs 2,75,000.00
Government Grant	Rs 2,00,000.00
Total Outlay:	Rs 5,00,000.00
Periodicity of the Term Loan :	5 years
Release of subsidy by	
Banks:	Back ended subsidy
Term Loan:	8.5 % to 9.5%

The term loan shall be covered under the Credit Guarantee Fund Trust for Small Industries under the Office/of the Development Commissioner, Ministry Of Micro Small Medium Enterprises. The beneficiary of the loan has to pay one time guarantee fee, upfront, of Rs 2750/- to the Trust. The premium annual fee payable at the commencement of the loan shall be Rs 1375/-. This shall decrease with the diminishing returns of the loan amount. This has to be borne by the

beneficiary. The Bank shall debit the beneficiary and remit the amount to the Trust, as the Bank as the lending institution needs to execute an agreement with the Trust. The subsidy retained by the Bank shall command no interest.

**INTEREST PAYABLE ON DIMINSHING BALANCE**

Total Loan:Rs 2.75 lakhs	Instalment Repayable	CGFSI Service Fees payable by beneficiary*	Interest Payable on diminishing Balance (Interest @ 8.5%)
I Year	Rs 55,000.00	Rs. 1375-00	Rs 23,375.00
II Year	Rs 55,000.00	Rs.1100-00	Rs 18,700.00
III Year	Rs 55,000.00	Rs 825-00	Rs 14,025.50
IV Year	Rs 55,000.00	Rs 550-00	Rs 9,350.00
V Year	Rs 55,000.00	Rs 275-00	Rs 4,675.00
<b>Total:</b>	<b>Rs 2,75,000.00</b>	<b>Rs 4175-00</b>	<b>Rs 70,125.00</b>

(\*) One time Guarantee fee (upfront) of Rs 2750/- to be paid

Units/ any entrepreneur/SHG/NGO/group of workers engaged in the production of traditional Coir products like Coir Mats, Mattings, Carpets, rope, rubber backed Coir products, Coir pith processing industries etc registered with Coir Board under R&L Rules, 1958/Coir Co-operatives, and new entrepreneurs are eligible for assistance. The unit members should prove that they have worked for a minimum of 3 years in any Coir manufacturing unit. They shall also satisfy to the Board that they have sufficient lands where they can put up a pucca shed. They have to obtain Invoices from reputed registered manufacturers, and these machineries shall be approved by the Technical experts in the Board and approved.

The Applicants will be selected by a Committee of the Coir Board which has expertise, along with additional members like SLBC representative, Industries Dept representative, etc. The selection will be on first-cum-first served basis.

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The following documents will be produced by the beneficiary before the Bank Branch for availing the loan:

- a. A Copy of the title deed of the property on which the unit is proposed to be located/ already located
- b. The prescribed application form for Scheme assistance
- c. Proof of Coir Industry experience
- d. Any training facility availed from Coir Board
- e. Machineries proposed for purchase along with Invoice (must be endorsed by the technical experts of Coir Board)
- f. MSME acknowledgement issued by DIC
- g. Industrial Establishment Certificate issued by Coir Board
- h. Chartered Engineer's drawing with estimate for construction of shed
- i. Any other document to support the application like SC/ST/OBC certificate
- j. Any other supporting document
- k. Project profile

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### PROJECT AIRTHMETIC

COST OF THE PROJECT	
WORKSHED	140000.00
PLANT & MACHINERY	
15 HP DISINTEGRATOR	80000.00
20HP DECORTICATOR	200000.00
SCREENER	50000.00
ELECTRICAL ACCESSORIES	30000.00
WORKING CAPITAL REQUIREMENT	25000.00
<b>TOTAL</b>	<b><u>525000.00</u></b>
MEANS OF FINANCE	
PROMOTER'S CONTRIBUTION	30000.00
TERM LOAN FROM BANK	275000.00
GRANT FROM COIR BOARD	200000.00
WORKING CAPITAL ASSISTANCE FROM BANK	20000.00
<b>TOTAL</b>	<b><u>525000.00</u></b>

Note: Promoter's contribution includes Rs 25000.00 towards term loan and Rs 5000.00 for working capital assistance.

## PROJECTED BALANCE SHEET

YEAR	1	2	3	4	5
<b>LIABILITIES</b>					
PROMOTER'S CAPITAL	494137.50	979000.00	1457210.75	1955563.56	2439639.75
TERM LOAN FROM BANK	220000.00	165000.00	110000.00	55000.00	NIL
WORKING CAPITAL LOAN FROM BANK	20000.00	20000.00	20000.00	20000.00	20000.00
<b>TOTAL</b>	<b>734137.50</b>	<b>1164000.00</b>	<b>1587210.75</b>	<b>2030563.56</b>	<b>2459639.75</b>
<b>ASSETS</b>					
FIXED ASSETS	233700.00	202425.00	175463.25	152205.56	132130.35
<b>CURRENT ASSETS</b>					
SUNDRY DEBTORS	499200.00	520000.00	280800.00	400400.00	507000.00
CLOSING STOCK	2250.00	-4500.00	-13125.00	-21000.00	-33000.00
CASH IN HAND & AT BANK	15952.00	403.00	3328.50	8572.20	2093.25
<b>TOTAL (A)</b>	<b>517402.00</b>	<b>515903.00</b>	<b>271003.50</b>	<b>387972.20</b>	<b>476093.25</b>
<b>CURRENT LIABILITIES</b>					
SUNDRY CREDITORS	16964.50	55770.00	113793.75	178850.00	236000.00
<b>TOTAL (B)</b>	<b>16964.50</b>	<b>55770.00</b>	<b>113793.75</b>	<b>178850.00</b>	<b>236000.00</b>
<b>NET WORKING CAPITAL (A) -(B)</b>	<b>500437.50</b>	<b>460133.00</b>	<b>157209.75</b>	<b>209122.20</b>	<b>240093.25</b>
<b>TOTAL</b>	<b>734137.50</b>	<b>662558.00</b>	<b>332673.00</b>	<b>361327.76</b>	<b>372223.60</b>
	0.00	501442.00	1254537.75	1669235.80	2087416.15

## Note:

- 1 Promoters contribution includes promoters contribution for term loan and working capital loan and profit for each year.
2. Sundry Debtors is taken to be 5 days sales on an average.
3. Sundry creditors is taken to be 30 days purchase for year 1. Thereafter the credit period is increased gradually.
4. Number of working days is taken to be 300.

PROJECTED PROFIT & LOSS ACCOUNT

YEAR	1	2	3	4	5
<b>INCOME</b> (AS PER ANNEXURE 1)	1872000.00	1950000.00	2106000.00	2184000.00	2340000.00
<b>TOTAL (A)</b>	<u>1872000.00</u>	<u>1950000.00</u>	<u>2106000.00</u>	<u>2184000.00</u>	<u>2340000.00</u>
<b>EXPENDITURE</b> (AS PER ANNEXURE 2)					
RAW MATERIALS	645750.00	643500.00	758625.00	766500.00	885000.00
WAGES	354000.00	396000.00	438000.00	480000.00	522000.00
POWER CHARGES	288000.00	316800.00	332640.00	349272.00	366735.60
TRANSPORTATION	15000.00	16500.00	18150.00	19965.00	21961.50
GREASE ,OILS & LUBRICANTS	12600.00	13200.00	13800.00	15180.00	16698.00
LOADING & UNLOADING	10000.00	11000.00	12100.00	13310.00	14641.00
BANK INTEREST ON TERM LOAN	44412.50	35062.50	25712.50	16362.50	7012.50
ON WORKING CAPITAL LOAN	1800.00	1800.00	1800.00	1800.00	1800.00
DEPRECIATION	36300.00	31275.00	26961.75	23257.69	20075.21
<b>TOTAL (B)</b>	<u>1407862.50</u>	<u>1465137.50</u>	<u>1627789.25</u>	<u>1685647.19</u>	<u>1855923.81</u>
<b>NET PROFIT FOR THE YEAR</b>	464137.50	484862.50	478210.75	498352.81	484076.19

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PROJECTED FUND FLOW STATEMENT

YEAR	1	2	3	
<b>INFLOW OF FUND</b>				
PROMOTERS CONTRIBUTION	30000.00	NIL	NIL	5
FUND FROM OPERATION	500437.50	516137.50	505172.50	5216 19.75
TERM LOAN FROM BANK	275000.00	NIL	NIL	NIL
GRANT FROM COIR BOARD	200000.00	NIL	NIL	
WORKING CAPITAL LOAN FROM BANK	20000.00	NIL	NIL	
<b>TOTAL</b>	<b>1025437.50</b>	<b>516137.50</b>	<b>505172.50</b>	<b>5216 10.00</b>
<b>APPLICATION OF FUND</b>				
CONSTRUCTION OF WORK SHED	140000.00	NIL	NIL	30.35
PURCHASE OF PLANT & MACHINERY				
15 HP DISINTEGRATOR	80000.00	NIL	NIL	00.00
20HP DECORTICATOR	200000.00	NIL	NIL	00.00
SCREENER	50000.00			93.25
ELECTRICAL ACCESSORIES	30000.00			93.25
REPAYMENT OF TERM LOAN	55000.00	55000.00	55000.00	551
INCREASE OF WORKING CAPITAL	500437.50	-40304.50	302923.25	51 00.00
<b>TOTAL</b>	<b>1055437.50</b>	<b>14695.50</b>	<b>#####</b>	<b>106 00.00</b>
	-30000.00	501442.00	753095.75	414 93.25
				23.60

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## PROJECTED FUND FLOW STATEMENT

YEAR	1	2	3	4	5
<b>INFLOW OF FUND</b>					
PROMOTERS CONTRIBUTION	30000.00	NIL	NIL	NIL	NIL
FUND FROM OPERATION	500437.50	516137.50	505172.50	521610.50	504151.40
TERM LOAN FROM BANK	275000.00	NIL	NIL	NIL	NIL
GRANT FROM COIR BOARD	200000.00	NIL	NIL	NIL	NIL
WORKING CAPITAL LOAN FROM BANK	20000.00	NIL	NIL	NIL	NIL
<b>TOTAL</b>	<b>1025437.50</b>	<b>516137.50</b>	<b>505172.50</b>	<b>521610.50</b>	<b>504151.40</b>
<b>APPLICATION OF FUND</b>					
<b>CONSTRUCTION OF WORK SHED</b>					
PURCHASE OF PLANT & MACHINERY	140000.00	NIL	NIL	NIL	NIL
15 HP DISINTEGRATOR	80000.00	NIL	NIL	NIL	NIL
20HP DECORTICATOR	200000.00	NIL	NIL	NIL	NIL
SCREENER	50000.00				
ELECTRICAL ACCESSORIES	30000.00				
REPAYMENT OF TERM LOAN	55000.00	55000.00	55000.00	55000.00	55000.00
INCREASE OF WORKING CAPITAL	500437.50	-40304.50	302923.25	51912.45	30971.05
<b>TOTAL</b>	<b>1055437.50</b>	<b>14695.50</b>	<b>#####</b>	<b>106912.45</b>	<b>85971.05</b>
	-30000.00	501442.00	753095.75	414698.05	418180.35

## PROJECTED DEBT SERVICE COVERAGE RATIO

YEAR	1	2	3	4	5
NET PROFIT	464137.50	484862.50	478210.75	498352.81	484076.19
DEPRECIATION ON FIXED ASSETS	36300.00	31275.00	26961.75	23257.69	20075.21
INTEREST ON TERM LOAN	44412.50	35062.50	25712.50	16362.50	7012.50
INTEREST ON WORKING CAPITAL LOAN	1800.00	1800.00	1800.00	1800.00	1800.00
<b>TOTAL (A)</b>	<b>546650.00</b>	<b>553000.00</b>	<b>532685.00</b>	<b>539773.00</b>	<b>512963.90</b>
REPAYMENT OF TERM LOAN	55000.00	55000.00	55000.00	55000.00	55000.00
INTEREST ON TERM LOAN	44412.50	35062.50	25712.50	16362.50	7012.50
INTEREST ON WORKING CAPITAL LOAN	1800.00	1800.00	1800.00	1800.00	1800.00
<b>TOTAL (B)</b>	<b>101212.50</b>	<b>91862.50</b>	<b>82512.50</b>	<b>73162.50</b>	<b>63812.50</b>
DSCR (A)/(B)	5.40	6.02	6.46	7.38	8.04
AVERAGE DSCR	6.66				

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**COMPUTATION OF BREAK  
EVEN SALES**

SALES	<u>1872000.00</u>
TOTAL (A)	<u>1872000.00</u>
<b>VARIABLE COST</b>	
RAW MATERIALS	645750.00
WAGES	354000.00
DYES AND CHEMICALS	4200.00
TRANSPORTATION	15000.00
LOADING & UNLOADING	10000.00
POWER CHARGES	<u>288000.00</u>
TOTAL (B)	<u>1316950.00</u>
CONTRIBUTION (A)- (B)	555050.00
<b>FIXED COST</b>	
BANK INTEREST	46212.50
DEPRECIATION	<u>36300.00</u>
TOTAL FIXED COST	<u>82512.50</u>
BREAK EVEN SALES	278287.36

**SCHEDULE 1: SCHEDULE OF INCOME**

YEAR	1	2	3	4	5	
<b>SALES</b>						
ANNUAL SALES OF FIBRE (IN MT)	156	156	156	156	156	
SELLING PRICE PER METRIC TON	12000.00	12500.00	13500.00	14000.00	15000.00	Subsidiary and Plant Depreciation

**SCHEDULE 2 : SCHEDULE OF EXPENDITURE**

RAW MATERIAL (QUANTITY)	550				
OPENING STOCK	NIL	625	-1250	-3125	-5000
PURCHASE	180000	177500	177500	177500	177500
CONSUMED TO PRODUCTION	179375	179375	179375	179375	179375
WASTAGE					
CLOSING STOCK	625	-1250	-3125	-5000	-6875
COST PER HUSK	0.30	0.30	0.35	0.35	0.40
<b>COST OF RAW MATERIAL PER MONTH</b>	53812.50	53625.00	63218.75	63875.00	73750.00
<b>POWER CHARGES PER MONTH</b>	24000.00	26400.00	27720.00	29106.00	30561.30
<b>WAGES</b>					
<b>SKILLED LABOUR</b>					
NUMBER OF LABOURERS	4	4	4	4	4
LABOUR CHARGES PER DAY	120.00	130.00	140.00	150.00	160.00
<b>UNSKILLED LABOURERS</b>					
NUMBER OF LABOURERS	10	10	10	10	10
LABOUR CHARGES PER DAY	70.00	80.00	90.00	100.00	110.00

**SCHEDULE 3: SCHEDULE OF FIXED ASSETS**

YEAR	1	2	3	4	5
FACTORY SHED	75600.00	68040.00	61236.00	55112.40	49601.16
PLANT & MACHINERY	158100.00	134385.00	114227.25	97093.16	82529.19
<b>TOTAL</b>	<b>233700.00</b>	<b>202425.00</b>	<b>175463.25</b>	<b>152205.56</b>	<b>132130.35</b>

**SCHEDULE 4: SCHEDULE OF DEPRECIATION**

YEAR	1	2	3	4	5
FACTORY SHED	8400.00	7560.00	6804.00	6123.60	5511.24
PLANT & MACHINERY	27900.00	23715.00	20157.75	17134.09	14563.97
<b>TOTAL</b>	<b>36300.00</b>	<b>31275.00</b>	<b>26961.75</b>	<b>23257.69</b>	<b>20075.21</b>

Note:

Subsidy received from Coir Board has been reduced from the cost of Factory shed and Plant & Machinery in the ratio 28:72  
 Depreciation rates for Factory Shed is 10% and Plant & Machinery is 15%

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**SCHEDULE OF REPAYMENT OF TERM LOAN**

YEAR	HALF	OPENING BALANCE	REPAYMENT	CLOSING BALANCE
1	1st	275000.00	27500.00	247500.00
	2nd	247500.00	27500.00	220000.00
2	1st	220000.00	27500.00	192500.00
	2nd	192500.00	27500.00	165000.00
3	1st	165000.00	27500.00	137500.00
	2nd	137500.00	27500.00	110000.00
4	1st	110000.00	27500.00	82500.00
	2nd	82500.00	27500.00	55000.00
5	1st	55000.00	27500.00	27500.00
	2nd	27500.00	27500.00	NIL

**SCHEDULE OF INTEREST**

YEAR	HALF	OPENING BALANCE	INTEREST
1	1st	275000.00	23375.00
	2nd	247500.00	21037.50
2	1st	220000.00	18700.00
	2nd	192500.00	16362.50
3	1st	165000.00	14025.00
	2nd	137500.00	11687.50
4	1st	110000.00	9350.00
	2nd	82500.00	7012.50
5	1st	55000.00	4675.00
	2nd	27500.00	2337.50

Note:

1. It is assumed that the term loan will be repaid on half yearly basis.
2. Interest on term loan is taken @8.5% and is calculated on the balance outstanding at the beginning of each half year.
3. Interest on Working Capital loan is taken @9% p.a