

## RUBBERISED COIR MATTRESSES

### 1. INTRODUCTION

This product has steady demand throughout the country. Kerala has an added advantage in the manufacture of the product in the sense that the raw materials required are abundantly available in the state. Hence, such units are ideal for the state.

### 2. RAW MATERIALS

Coir fibres, centrifuged latex, sulphur, accelerator, anti-oxidants, zinc oxide, dispersing agent, caustic potash etc.

### 3. MANUFACTURING PROCESS

Sulphur, accelerator, antioxidants, zinc oxide, dispersing agent, water etc. are put in the Ball Mill and mixed and ground for 48 hours. Latex is poured into the mixing machine and caustic potash solution, stabiliser, antioxidant emulsion etc. are mixed. The filtered solution from the ball mill is poured slowly to this solution and stirred well. To this compound a watering agent is also added.

Coconut fibres are cut long and curled into springs. This is then subjected to steam boiling and dried as curls. The curls are rearranged as fibre yarns and put in a spraying unit. The latex compound is sprayed from the top and bottom surface of the fibres and then heated to 60° centigrade for 30-60 minutes till the vulcanisation is over. The product is ready for packing after sufficient cooling.

### 4. MANPOWER REQUIREMENT : 17

### 5. PROJECT COST

<b>A. Fixed Capital</b>	<b>Rs.</b>
Land & Building	500000
Plant & Machinery	600000
	<b>1100000</b>
<b>B. Working Capital ( per month)</b>	
Raw Material & Packing	445500

Salary & wages	42500
Other expenses	12000
	<b>500000</b>
<b>Total (A+B)</b>	<b>1600000</b>

#### 5. COST OF PRODUCTION

	<b>(Rs.)</b>
Production cost ( per annum )	6000000
Depreciation on machinery	60000
Interest on investment	540000
	<b>6600000</b>

#### 6. PROFITABILITY

Sales turnover	Rs.7000000
Production cost	Rs.6600000
Annual profit	Rs.400000

Percentage of profit on Investment 25% Break even point= 60%

#### MACHINERY SUPPLIERS

1. M/s.Indian Expeller Works Private Ltd, A-4, Naroda Industrial Estate  
Ahmedabad – 383 330.
2. M/s. Matharu Engineering Works, Plot No.1, Unit No.4, Opp. Tatwagyan Vidyapeeth  
Ghodbunder Road, Chitalsar, Thane - 400607
3. M/s. Modern Rubber Machinery Manufacturers Pvt. Ltd, 310, Jogani Industrial Estate  
541, Senapati Bapat Marg, Dadar, Mumbai – 400 028

4. M/s. Emson Industries, 6-A, Shri Ram Industrial Estate, Kaley Marg, Bail Bazar, Kurla  
Mumbai – 400 011
5. M/s. Modern Hydraulics, 5, Italian Building(Ground Floor), 381, Sane Gruji Marg  
Agripada, Near I.T.I, Mumbai – 400 011
6. M/s. Perumacheril Castings Industries, Market Landing, Kottayam – 686 001, Kerala
7. M/s. Hind Hydraulics & Engineers, E-43/1, Okhla industrial Area, Phase –II  
New Delhi – 110 002
8. M/s. Micromertics Engineers (P) Ltd. 298, 4<sup>th</sup> Floor, Khaleel Shiraji Estate  
Fountain Plaza, Pantheon Road, Egmore, Chennai – 600 028
9. M/s. Anant Engineering Works, Bassi Road, Sirihindi (N.Rly), Punjab – 140 406
10. M/s. Santhosh Industries, A-1, Sone Udyog, Parsi Panchayat Marg  
Andheri (East), Mumbai – 400 069