

3. Title of the Technology: Coir fibre extraction using Mobile Fibre Extraction Machine (MFEM-Swarna)			
Type (Green/ import substitution/etc)	Green		
IP Status (IP Protected /Non infringing /freedom to practice)	Patent Filed, Indian Patent Application No 286/KOL/2010 dt 22.03.2010		
Plant / Equipment/Space requirement for manufacturing	Motor Capacity 10HP to 12HP-1 No Diesel Engine or Electric motor for fiber extraction unit-1 No Land Area: 200-250 Sqft		
CapEx		Capacity	Cost in lakhs (INR)
	MFEM-Swarna	350 Kg of Fibre+700 Kg of Pith/Day	3
&OpEx		Capacity	Cost (INR)
	MFEM -Swarna	350 Kg of Fibre+700 Kg of Pith/Day	7000/Day
Market Size and Return on Investment time (Please indicate in numbers)	Small capacity: 10 Tonnes of Fibre/Day + 20 Tonnes of Coir Pith Large capacity: Depends upon the investment. ROI: 06-1 year (Small Capacity)		
Availability of raw materials	All the raw materials are easily in coconut growing states at reasonable cost		
Product/ Equipment Certification status (Regulatory body/ user agency)	Patent designed and fabricated in CCRI Bestowed with Best Innovation award by NRDC in the year 2010 and the prestigious World Intellectual Property Organization (WIPO) Gold medal in the year 2012.		
Unique selling Point	<ul style="list-style-type: none"> • No pre-crushing of husk is required • Good quality of fibre with minimum breakage • Machine weight is only 500 Kg. • Dimensions 100cm X 1200 cm. • Defibring of 600 husks/hour • Saves transportation charges for husk • Generate more working days in rural sector • Up liftment of the economic status of coir artisans in the rural sector • Eliminate pollution of water bodies in rural area, only 1000 L of water required to be sprinkle over the husks. • Can be run by Diesel Engine or Electric Motor/ tillers and tractor extension shaft 		
Transfer of technology charges of the Lab for <ul style="list-style-type: none"> • Micro • Small • Medium Scale company 	Micro: Upfront Fee of Rs.10000 +Royalty of Rs 2.5% on installation Small: Upfront Fee of Rs.15000 +Royalty of Rs 2.5% on installation Medium: Upfront Fee of Rs.25000 +Royalty of Rs 2.5% on		

	installation
Date of demonstration of technology	The demonstration available at CCRI working time.

Contact details of the person

Name	Designation	Lab Address	Phone No.	Email Address
Anita Jacob	Director RDTE (i/c) CCRI, Kalavoor	Central Coir Research Institute, Kalavoor.P.O., Alappuzha, Kerala.688522	0477-2258094	ccri.coirboard@gmail.com coirtechnologies@gmail.com