

NATIONAL AGRICULTURAL INNOVATION PROJECT (COMPONENT 2)

A VALUE CHAIN ON UTILIZATION OF BANANA PSEUDOSTEM FOR FIBRE AND OTHER VALUE ADDED PRODUCTS



Overall progress and achievements – At a glance (As on Nov., 2012)

Products	Value added products	Beneficiaries	Remarks
A) Fibre			
Yarn preparation	About 3.7 t yarn was prepared on jute	Spinning and	Improvement in yarn quality
trial on jute spinning	spinning system.		is necessary to make it
n/c and yarn to	Yarn was used for making fabrics of	Textile industries	suitable for fabric making at
abrics	different qualities.		commercial scale
	From fabrics products like coat, apron,		
	gloves, binders <i>etc</i> . were prepared.		
Non-woven fabrics	About 2 t non woven fabrics of	Textile industries	Fibre can be directly used for
	different GSM (500, 7000 and 1000)		preparing non-woven fabrics
	have been prepared. Quality testing is		for which trials have been
	in progress and can be used for wall		successfully conducted, cost
	panelling, sound proofing etc.		reduction technology over
			woven fabric.
Paper			
At industrial scale	As a raw material for preparing cheque	Paper industries	Fibre cost is high as compare
	and grease proof paper		to other available ra
			material
At handmade level	As raw material for preparing	Cooperatives, local	Suitably used as a raw
	handmade paper, from which various	entrepreneur	material by blending with
	stationary articles like files, folders,		paddy straw, bagasse, cotto
	box files, binders, note pads <i>etc.</i> , can		rags, scutcher, waste paper
	be prepared		etc.
Extraction of	Extraction of MCC from banana fibre	Pharmaceutical	Tested and properties found
cellulose	has been standardized at laboratory	industries for	to match with commercially
	scale	coating tables	available MCC
		0	
Handicrafts items	Preparing various articles like bags,	Cottage/ rural	
	dolls, decorative wall hangings, key	industry, SHGs and	
	chains etc.	NGOs	
B) Scutcher			
Converting into	As manure: Tested in crops like	Farmers	Found to comparable
manure and as a fish	banana, sugarcane and papaya and		performance with other
feed	recommended to farmers.		organics
	As fish feed – pelleting of	Fish farming	30% substitution of cattle
	vermicompost + cattle feed	community	feed, cost reduction by 32 pe
			cent
Particle board	As a partition	Local industries	
C) Sap			
			Induce early transplantable
Sap and enriched sap	As a liquid fertilizer or nutrient spray	Farmers/	
Sap and enriched sap	As a liquid fertilizer or nutrient spray	cooperatives/	stage in nursery seedlings,
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Sap and enriched sap	As a liquid fertilizer or nutrient spray	cooperatives/	stage in nursery seedlings,
	As a liquid fertilizer or nutrient spray For colour fastening of dyes	cooperatives/ entrepreneur Textile dyeing	stage in nursery seedlings, saving of 20-30 % chemical fertilizer Good fastening properties of
Vordant		cooperatives/ entrepreneur	stage in nursery seedlings, saving of 20-30 % chemical fertilizer
Mordant D) Central core	For colour fastening of dyes	cooperatives/ entrepreneur Textile dyeing industries	stage in nursery seedlings, saving of 20-30 % chemical fertilizer Good fastening properties of various shades
Mordant		cooperatives/ entrepreneur Textile dyeing industries Food processing	stage in nursery seedlings, saving of 20-30 % chemical fertilizer Good fastening properties of various shades Found to contain Fe and
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Mordant D) Central core	For colour fastening of dyes	cooperatives/ entrepreneur Textile dyeing industries Food processing	stage in nursery seedlings, saving of 20-30 % chemical fertilizer Good fastening properties of various shades Found to contain Fe and
Mordant D) Central core dible products Lead cent	For colour fastening of dyes For preparing candy, pickles, RTS <i>etc</i> . re: Navsari Agricultural University, Navsari	cooperatives/ entrepreneur Textile dyeing industries Food processing industries (Gujarat)	stage in nursery seedlings, saving of 20-30 % chemical fertilizer Good fastening properties of various shades Found to contain Fe and vitamins (B ₂ and B ₅) in appreciable amounts.
Mordant D) Central core dible products	For colour fastening of dyes For preparing candy, pickles, RTS <i>etc</i> .	cooperatives/ entrepreneur Textile dyeing industries Food processing industries (Gujarat) Technology, Mumbai (Mah	stage in nursery seedlings, saving of 20-30 % chemical fertilizer Good fastening properties or various shades Found to contain Fe and vitamins (B ₂ and B ₅) in appreciable amounts.

BEFORE NAIP







YARN & FABRICS



SPECIALITY PAPER





HANDICRAFTS



VERMICOMPOST



ORGANICS



FISH FEED



PARTICLE BOARD



HANDMADE PAPER





AFTER NAIP

LIQUID FERTILIZER



SPRAYING









PICKLES

RTS

TRAL CO

CANDY