AGRICULTURAL PROCESSING EQUIPMENTS/ TECHNOLOGIES

THRESHING / SHELLING/DECORTICATING/DEHUSKING EQUIPMENTS

Sl. No.	Name	Power	Capacity	Use	Cost (Rs)
1.	Arecanut Dehusker	1 hp	30 kg/h	To dehusk the dried arecanut fruits	20,000/-
2.	Groundnut Decorticator (Power Operated)	1 hp	400 kg/h	To shell groundnut pods and separate kernels	30,000/-
3.	Groundnut Decorticator (Hand Operated)	Manually operated	200 kg/h	To shell groundnut pods and separate kernels	6,000/-
4.	Sunflower Seed Sheller	3 hp	125 kg/h	To shell the sunflower seeds and to separate husk.	35,000/-
5.	Cotton Seed Delinting Machine	1 hp	50 kg/h	To delint the fuzzy cotton seed for seed purpose	30,000/-
6.	Sorghum Pearler	1 hp	25 kg/h	To remove the hull/seed coat from sorghum and other millets like little millets and finger millets.	25,000/-
7.	Hand Operated thresher for Black Pepper (<i>Piper Nigrum</i> L.)	Manually operated	60 kg/h	To separate the pepper berries from the pepper.	7,500/-
8.	Mechanical Operated thresher for Black Pepper (<i>Piper</i> <i>Nigrum</i> L.)	2 hp	320 kg/h	To separate the pepper berries from the pepper vines.	25,000/-
9.	White Pepper Peeler cum Washer	1.5 hp	125 kg/h (mechanical) 15kg/h (manual)	To peel the skin and wash ripe pepper berries.	25,000/-
10.	Pulper Cum Washer for Coffee.	3 hp	500 kg/h	To pulp and wash the coffee parchments	75,000/-
11.	Gloriosa Thresher	5 hp	250 kg of beans/h	To separate beans from pods	90,000/-

CLEANING AND GRADING EQUIPMENTS

Sl.	Name	Power	Capacity	Use	Cost
No.					(Rs)
1.	Grain Winnower	1 hp	500 - 750 kg/h	To winnow and clean all grains after threshing.	20,000/-
2.	Rotary Sieve Raw Cashewnut Grader	1 hp	100 kg/h	To grade raw cashew nut for processing.	20,000/-
3.	Rotary Sieve Multi Crop Cleaner Cum Grader	Hand operated	100 - 250 kg/h	To clean and grade grains, spices, etc.	5,000/-

DRYING EQUIPMENTS

Sl. No.	Name	Power	Capacity	Use	Cost (Rs)
1.	Agricultural Waste Fired Mechanical Dryer.	2 hp	1 tone/day	To burn agricultural wastes and to produce hot air.	1,00,000/-
2.	Fluidized Bed Dryer for Mushroom.	3 hp electric motor; 2000 W for heaters	6 kg/batch	To dry the oyster and milky mushroom	40,000/-

MILLING AND EXTRACTION EQUIPMENT

Sl.	Name	Power	Capacity	Use	Cost
No.					(Rs)
1.	Mini Dhal Mill	1 hp	20 kg/h	To split the grain legumes into dhal.	10,000/-
2.	Improved TNAU Dhal mill	1 hp	30 kg/h	To split, clean and grade Dhal	30,000/-
3.	Dhal Mill Cum Wet Grinder	1 hp	2 kg of dry grinding /h; 2 -3 kg of wet material/ h	Wet grinding, splitting of pulses into dhal and dry grinding.	14,000/-
4.	Chilli Seed Extractor	0.5 hp	4 quintals/ day	To extract seeds from dried chilli.	20,000/-
5.	Tomato Seed Extractor	1 hp for electric motor and 0.5 hp for pump	180 kg of fruit (1.8 kg of seed) per hour.	To extract seed from tomato fruits	20,000/-

6.	Brinjal Seed Extractor	1 hp	120 kg of fruits per hour	To extract seed from well ripe brinjal	25,000/-
7.	Amla Seed Removing Machine.	Manual operated	500 fruits/h	To deseed the amla fruits	2,500/-
8.	Improved Four Roller Sugarcane Crusher	7.5 hp	250 kg/h	To extract the juice by crushing sugarcane.	50,000/-
9.	Automatic Stirring Mechanism for Sago Starch Settling Tanks	1.25 hp	Depending on the size of the existing tank.	To continuously stir the tapioca milk in the settling tank, replacing the manual stirring.	75,000/-

AGRICULTURAL WASTE UTILIZATION TECHNOLOGIES

Sl.	Name	Power	Capacity	Use	Cost (Rs)
No.				No. 19	
1.	Compost Pelletizer	5 hp	100 kg/h	To make pellets from	25,000/-
				compost.	
2.	Briquetting Machine	5 hp	125 kg/h	To make briquettes	30,000/-
				from coir pith.	
3.	Adhesive from	-	-	To utilize tamarind	50,000/-
	Tamarind Kernel			kernel for the	
	Powder			production of	
			9	industrial adhesive.	
4.	Production of Particle	-	-	To utilize cir pith for	Rs. 40 and
	Board from Coir pith.			the production of	per sq. ft.
				particle	of the
				board.	board.
5.	Production of Paper	Minimum	5000 pads	To utilize agricultural	Rs.5 lakhs
	Boards form	25 hp	per month	wasters and farm	for cottage
	Agricultural Waste	T I	y	residues for the	level.
	Materials.			production of particle	
				boards.	

EQUIPMENTS FOR VALUE ADDITION

245	EQUITIENTS FOR TREE REDITION						
Sl.	Name	Power	Capacity	Use	Cost (Rs)		
No.							
1.	Household Paddy	5 kg of	125	To parboil paddy	10,00/-		
	Parboiling Unit.	firewood/	kg/batch	uniformly.			
		batch					
2.	Cassava Chipper	0.5 hp	270 kg/h	To cut / slice the	15,000/-		
		_	-	cassava into chips.			
3.	Improved Turmeric	10 kg. of	16	To boil the turmeric	15,000/-		

	Boiler	fire wood /	quintals /	rhizomes under	4
		batch.	day	hygienic condition.	
4.	Hand operated	Manually	100 kg/h	To remove flower stalk	5,000/-
	Garbling unit for	operated		from cardamom after	
	Cardamom		F	drying.	
5.	Continuous Type	0.5 hp	500	To remove the surface	15,000/-
	Centrifuge for		kg/day	water from the	
	Sterilized Pepper			sterilized pepper.	
6.	Fish Feed	0.5 hp	10 kg of	To produce water	25,000/-
	Pelletizer		fish feed/h	stable pellets.	

VALUE ADDITION TECHNOLOGY

Sl. No.	Name	Power	Capacity	Use	Cost (Rs)
1.	Bottling of Sugarcane Juice	Dependin g on the production capacity	Depending on the production capacity	To preserve the sugarcane juice in bottles	2 lakhs for minimum capacity
2.	Vacuum Packaging of Banana	0.5 hp		To pack and store the banana to delay ripening	1,00,000/-
3.	Technology of Production of Tomato Paste	Based on capacity	Depending on the production capacity	To process tomato into concentrate form	2 lakhs for minimum capacity
4.	Technology for Extrusion Cooking of Finger Millets	7.5 hp	10-20 kg/h	To produce value added products from millets	1,00,000/-
5	Packaging of Tomatoes in Corrugated Carton Boxes	-	0.5, 1.0 and 2 kg packs.	To package the tomatoes suitable for handling	2.25 per kg.
6.	TNAU Insect Trap	-	Suitable for a bin holding 20- 50 kg	To remove insects from house hold grain storage bins	Rs.60/-
7.	Ready To Cook Mix from Pearl Millet	-	50 Kg of product/hour	To prepare RTC mix form pearl millet	Rs. 5,000/-