VICTOR AGRO SALES



De-stoner cum Aspirator



Grader



Single chamber De-huller



Double chamber De-huller

AGROMECH ENGINEERING



De-stoner



Grader with Aspirator



De-huller

Perfura Technologies (India) Pvt. Ltd.



De-stoner cum aspirator



Millet De-husker



Double chamber De-huller

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2.3 Spares and tools

It is better to get the following spares & tools while purchasing the processing equipment:

- 1. Spanner set for all the bolts used in the machines
- 2. Allen keys for the bolts used in the machines
- 3. Wire brush for cleaning
- 4. Hand sieves
- 5. Extra pulleys of different sizes
- 6. Spare belts
- 7. Additional set of sieves for grader
- 8. Container
- 9. Foundation bush (If needed)

3. Support from DHAN Foundation

DHAN Foundation will help the purchaser in the following ways:

- a. Arrange for exposure visit to equipment offered by manufacturers and successfully running SMPU
- b. Offer
- i Guidelines for testing the equipment at the manufacturers site / workshop
- ii Floor Plan
- iii Installation Guidelines and Guidelines for testing the equipment after installation
- c. Give hands on training to operators/proprietors/mechanics on operating SMPU

Development of Human Action (DHAN) Foundation

It is a development NGO working with 1.6 million poor families in 14 states of India, including Karnataka on various development themes like Microfinance, Tankfed Agriculture, Rainfed Agriculture, Panchayat Raj, Coastal Livelihoods and Development Education. It has been promoting production and consumption of small millets in various parts of the country since 2011. Our initiatives on small millets can be viewed at www.dhan.org/smallmillets/. Small Millet Foundation, a division of DHAN Foundation, was initiated for scaling up the technologies, practices, promotion materials, protocols and tools developed and the lessons learnt in promoting an ecosystem for small millets in many parts of India to revitalize small millets economy.

Scaling up Small Millet Post-harvest and Nutritious Food Products Project

It is an action research project, which aims at scaling up the reach of small millet processing equipment and value added food products to reduce the drudgery of women and improve the nutritional (and diet related health) security of India. It offers capacity building and technical support to small millet processing equipment manufacturers, farmers producer organisations, grain processors, food processors, restaurants, retailors and NGOs involved in small millet promotion. This research project is implemented by DHAN Foundation in collaboration with Tamil Nadu Agricultural University, Tamil Nadu and McGill University, Canada.

For more details contact:

	DHAN Foundation			
	For general queries	Mr. M. Karthikeyan, Principal Investigator & Programme Leader Email: karthikeyanrfd@gmail.com		
		Mr. G. Karthikeyan, Project Staff Cell: 9488054514, 8144940641		
	For machine related queries	Mr. P. Saravanan, Project Manager & Team Leader Cell: 8667566368; 7397595022 Email: rfdpkrishnagiri@dhan.org		

DHAN Foundation,

4/230-11, Sixth Street, Rajaji Nagar, Krishnagiri, Tamil Nadu, India-635 001.

Phone: 04343 226568

Supported by:







Canada

Guidance Note on Purchasing Small Millet Processing Equipment





Scaling up Small Millet
Post-harvest and Nutritious
Food Products Project



Small Millet Foundation & DHAN Foundation

1. Introduction

The market for healthy foods is increasing rapidly in India due to raising health and nutrition awareness across the different sections of the society. As part of this growing market for healthy foods, the market for small millets is also on the rise. Entrepreneurs are exploring to initiate processing mills to capture this business opportunity. This guidance note on purchasing small millet processing equipment is prepared by Small Millet Foundation & DHAN Foundation as part of Scaling Up Small Millet Post-harvest and Nutritious Food Products Project, keeping in mind the needs of new entrants to small millet processing sector. DHAN Foundation has been involved in setting up community scale small millet processing units (SMPU) and has been working with equipment manufacturers and regional level processors since 2011. This note is prepared based on the learning gained from these engagements.

2. Choosing the set of equipment based on the planned scale of operation

This section will help the new entrant to assess his/her requirement of machines and other requirements for setting up SMPU. It will also give him/her information on the machine available in the market with contact details of manufacturers.

Points to be kept in mind:

- 1. These are general guidelines and it would be better to meet existing SMPU players and experts in the field before taking the plunge.
- 2. Analyse the market potential in the proposed area of operation and your capabilities before choosing your scale of operation.
- 3. The new entrant should take relevant onsite / practical training before starting operations.
- 4. Choose machinery only after checking the performance for the small millet crop cultivated in your place.

The performance of SMPU depends on appropriate quality processing machines and competencies of operators. The lower cost of processing per Kg and high quality rice output are the hallmarks of well functioning SMPU.

2.1 Requirements of equipment and other Infrastructure for SMPU at different levels

Description of requirements	Village/ community scale	Small scale enterprise	Medium scale enterprise
. Capacity	50 kg/hr	100 kg/hr	500 - 1000 kg/hr
2. Manpower	2 persons	2 to 10 persons depending on volume of operation	15 to 30 persons depending on volume of operation
nfrastructure	200 sq ft floor area	1200 sq ft floor area	5000 to 10000 sq ft floor area
		Godown to stock 2 to 4 tons of materials	Godown to stock 10 - 20 tons of raw materials
			Pickup vehicle
			Open yard for drying, sorting and cleaning grains
			A small office room
. Machinery	Decided based on locally grown small millet crops	Decided based on actual small millet crops to be processed	Decided based on actual small millet crops to be processed
.1 Suggested	Destoner -1	Destoner - 1 to 2	Destoner - 4 to 8
nachinery	Grader - 1	Grader - 1 to 2	Grader - 4 to 8
	Dehuller - 1	Dehuller - 1 to 2	Dehuller - 2 to 4
			Pulveriser - 1
			Semolina machine
			Elevators
.2 Additional	-	Pulveriser - 1	Polisher - 1
nachinery			Pneumatic separator
I.3 Unit cost approximate)	Rs.1.5 Lakhs	Rs.2.5 - 3.5 Lakhs	Rs.10 - 30 Lakhs
5. Accessories	Weighing scale - 100 kg capacity	Weighing scale 1 to 100 Kg capacity	Weighing scale 1 to 100 Kg capacity
	Weighing scale - 50 gm to 5 kg	Weighing scale - 50 gm to 5 kg	Weighing scale - 50 gm to 5 kg
		Packing & Sealing Machines - both gunny & poly	Packing & Sealing Machines - both gunny & poly
			Hydraulic trolley
	Air blower	Air blower	Air blower
6. Power equirement	Single or 3 phase : 5 to 10 HP	3 phase : 10 to 20 HP	3 phase : 30 to 50 HP
7. Specialised unctions to be performed		For purchase, record keeping & marketing	For management, purchase, record keeping,
			marketing & driving vehicles

2.2 Manufacturers of small millet processing equipment

AVM Engineering Industries

1/191, Vanniyar Nagar, Meyyanoor Main Road, Salem-636 004. Mr.Rajasekar - 9443633131 Mr.Jagadeesh - 7867018582

Email: avmengineeringindustries@gmail.com Website: www.avmengineering.com

0427 - 2442335, 9443633131, 7867018582

Machinery Supplied:

Graders - 3' to 12' L and 1' to 3'B Dehullers 50 kg to 500kg/hr, Pulverisers30 to 100 kg/hr, Elevators as per requirement

VICTOR AGRO SALES

No. 162 A, Back side of New Bus stand, Salem - 636 009.

Mr. Mariappan - 8883961900

Mr. Shanmugam - 9865413664

Mr. Elumalai - 95007272727 Ph: 0427 2443887

Email: victormachinessalem@gmail.com

Machineries Supplied:

Destoners 250 kg/hr to 500 kg/hr, Destoners 250 kg/hr to 1000 kg/hr, Graders - 3' to 6' L and 1' to 2.5'B Dehullers 50 kg to 200kg/hr

AGROMECH ENGINEERS

No. 374, Patel Road, Coimbatore - 641 009. Mr. Sundarrajan - 9791766406 Email: agromechcbe@yahoo.com

Machinery Supplied:

Destoners 250 kg/hr to 2000 kg/hr, Graders - 3' to 12' L and 1' to 3'B Dehullers 150kg/hr, Pulverisers 20 to 100 kg/hr

Perfura Technologies (India)Pvt. Ltd, #7, Maruthamalai Gounder Layout, Ramakrishnapuram, Ganapathy, Coimbatore, Tamil Nadu-641006. Mr. Uday - 098948 00009, 04224534009

Email: sales@perfuratech.com Website: www.perfuratech.com

Machinery Supplied:

Destoners 250 kg/hr to 2000 kg/hr, Graders - 3' to 6' L and 1' to 2.5'B Dehullers 100kg/hr, Pulverisers 20 to 100 kg/hr

AVM Engineering Industries



De-stoner cum **Grader with Aspirator**





