## **Axial Flow Thresher - A Business Opportunity**



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After being harvested, paddy is commonly sun-dried in the field for 8-10 days or more which causes preventable losses, quality deterioration of grains and delays in sowing of next Rabi crop. But, with the Axial-Flow Thresher, farmers can thresh paddy right after cutting thus avoiding losses, saving residual soil moisture and creating opportunity for early sowing of Rabi crops by 8—10 days. Not only does the Axial-flow Thresher give farmers higher yield and better quality paddy, it also reduces the drudgery of manual threshing. This freshly threshed paddy can then be directly bagged for immediate sale or for drying and selling at a later date.

## HOW DOES THE AXIAL-FLOW THRESHER WORKS?

The paddy straws moves axially several times in the axial flow thresher around the threshing cylinder drum and louvers that cleanly separate the grain from the stalk (Fig 2 & 3). This axial movement with proper clearance between the cylinder and concave (Fig 1) provides for long threshing exposure with adjustable speed. The grain is separated from straw and chaff and is further cleaned by two oscillating sieves. Specifications are described below (may vary for different manufacturers):



50 5.3



Fig 1: Concave Clearance

Fig 2: Position of pegs

Fig 3: Louvers

Capacity	1.4—1.6 tons/hr (approx.)
Tractor (engine)	25hp or more
Max. R.P.M.	650
Thresher efficiency	>95%

Cleaning efficiency	>95%	01 01 01 F
Breakage	<2%	
Moisture content of crop	22-25%	

Reduces cost and drudgery | Gives higher yield and better quality paddy | Increases profits







Assam Agribusiness and Rural Transformation Project (APART)

The World Bank is the funding agency of APART

Department of Agriculture, Assam is the nodal department for implementation of APART ARIAS Society is the State Level coordinating and monitoring agency for APART Assam Agricultural University is the leading Agricultural University of the State and implementing agency of APART, imparting research and scientific support.

International Rice Research Institute (IRRI) is the rice global leader providing technical and handholding support in the implementation of APART