
	<b>DEPARTMENT OF FARM MACHINERY AND POWER ENGINEERING</b> <b>COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY</b> <b>CCS HARYANA AGRICULTURAL UNIVERSITY</b> <b>HISAR-125004, HARYANA</b>	
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### SPECIFICATION SHEET OF STRAW REAPER

<b>1.0</b>	<b>General</b>	
	Name of Machine	
	Name and address of Manufacturer	
	Name and address of applicant	
	Selling price in India	
<b>2.0</b>	<b>Technical Specification</b>	
	Make	
	Model	
	Type	
	Size	
	Serial No.	
	Year of Manufacture	
	Size of blade	
	Suitability	
<b>3.0</b>	<b>Constructional Details</b>	
<b>3.1</b>	<b>Towing hook</b>	
<b>3.2</b>	<b>Transport wheels</b>	
	Type	
	No. and size	
	Track width (mm)	
	Recommended tyre pressure (kg/sq.cm)	
<b>3.3</b>	<b>Drive shaft</b>	
	Type	
	No. of pieces	
	No. of splines	
<b>3.4</b>	<b>Gear box</b>	
	Type	
	No. of teeth	
	Dia of splines (mm)	
	Number of splines	
	Gear ratio, input shaft to output shaft	
	Oil capacity (lit.)	
	Method of driving arrangement and location.	
	No. and type of bearings	

<b>3.5</b>	<b>Reel assembly</b>	
	Type	
	No. of tyne bars	
	Dia of bars (mm)	
	Type of tyne bars	
	Size of reel (mm)	
	Speed of reel corresponding to engine speed of 2000 rpm.(rpm)	
	No. of tynes on each bar and their spacing (mm)	
	Max. distance ahead of cutter bar (mm)	
	Max. distance ahead of cutter bar point when the reel is in rearmost position	
	Max. vertical distance above the cutter bar point up to the outer bar of reel (mm)	
	Max. vertical distance above the cutter bar points from the center of the reel (mm)	
	Max. vertical distance below the cutter bar points (mm)	
	Distance from cutter bar points to the front of feeding auger (mm)	
	Arrangement for variation of angle of the tynes.	
	Arrangement for forward & backward movement of the reel.	
	Type of reel drive	
	No. and type of bearings	
	Safety device in reel drive	
<b>3.6</b>	<b>Cutter bar assembly</b>	
	Cutting width (mm)	
	Effective cutter bar width (mm)	
	No. of strokes corresponding to 2000 rpm of engine	
	Knife stroke (mm)	
	No. and spacing of knife guards	
	No and type of blades	
	Type of ledger plates	
	Details of the knife drive	
	Arrangement for lifting of lodged crop.	
<b>3.7</b>	<b>Feeding auger</b>	
	Type	
	Size of auger	
	Speed of auger corresponding to engine speed of 2000 rpm (rpm)	
	Safety device if any	
	Details of scoop:	

	No. of scoops No. of scoops on each row	
	Arrangement for adjusting the clearance of crop auger.	
	No. & type of bearing	
<b>3.8</b>	<b>Beater</b>	
	Type	
	Size, (mm)	
	No. of sections	
	Width of one section (mm)	
	Speed corresponding to engine speed of 2000 rpm (rpm)	
	Location	
	Type of drive	
	No. and type of bearings.	
	Safety device	
<b>3.9</b>	<b>Chaffer Cylinder</b>	
	Type	
	Width (mm)	
	Outside dia (mm)	
	Speed corresponding to 2000 rpm of engine (rpm)	
	No. of bars	
	No. of blades and their spacing on each bar.	
	Shape of blade	
	Size of blade (mm)	
	Type of drive	
	No. & type of bearings	
	Safety provision	
<b>3.10</b>	<b>Baffle plate</b>	
	Type	
	Size of plate (mm)	
	Location	
	Method of fixing of plate to machine.	
<b>3.11</b>	<b>Concave</b>	
	Width of concave (mm)	
	Peripheral length (mm)	
	Concave area, m <sup>2</sup>	
	Effective area (m <sup>2</sup> )	
	Type of concave	
	No. of bars & rods	
	Method of fixing of concave in place	
	Method of adjusting the clearance between drum and concave.	
	Range of clearance	
<b>3.12</b>	<b>Cleaning sieve</b>	
	Type	
	Size of sieve (mm)	

	Effective size of sieve (mm )	
	Hole dia (mm)	
	Number of holes per 100 sq.mm	
	Inclination towards the blower unit (degree )	
	Method of fixing and location	
<b>3.13</b>	<b>Grain Pan</b>	
	Type	
	Size of grain pan (L ×W× D) (mm).	
	Thickness of sheet (mm)	
	Capacity	
	Provision of unloading door	
	Method of fixing & location.	
<b>3.14</b>	<b>Straw Blower</b>	
	No. of blowers	
	Dia (mm)	
	Effective width (mm)	
	No. and type of blade	
	Size of blade(mm)	
	Type of drive	
	No. and type of bearings	
	Method of varying the blower speed	
	Speed corresponding to 2000 rpm of engine (rpm)	
	Safety provision	

<b>4.0</b>	<b>Safety Arrangements</b>	
<b>5.0</b>	<b>Transport Arrangements</b>	
<b>6.0</b>	<b>Overall dimensions</b>	
	<b>Length</b>	
	<b>Width</b>	
	<b>Height</b>	
<b>7.0</b>	<b>Mass of Machine</b>	
	With prime mover	
	Without prime mover	
<b>8.0</b>	<b>Color of Machine</b>	

Place:

Date:

Signature: \_\_\_\_\_

Name : \_\_\_\_\_

Designation: \_\_\_\_\_