



**DEPARTMENT OF FARM MACHINERY AND POWER ENGINEERING  
COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY  
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**SPECIFICATION SHEET OF MULCHER**

<b>1.0</b>	<b>General:</b>		
	a)	Name	:
	b)	Address of manufacturer	:
	c)	Address of applicant	:
	d)	Type	:
	e)	Make	:
	f)	Serial Number	:
	g)	Model	:
	h)	Year of manufacture	:
	i)	Different seeds which the drill is designed to sow	:
	j)	Source of power	:
	k)	Recommended traveling speed of the drill	:
	l)	Recommended power of tractor, if tractor operated	:
<b>2.0</b>	<b>Drive shaft/propeller shaft</b>		
	a)	Type	:
	b)	No. of pieces	:
	c)	No. of splines	:
	d)	Length (adjustable), mm	:
		Minimum	
		Maximum	
	e)	Weight, kg	:
<b>2.1</b>	<b>Auxiliary drive shaft</b>		
	a)	Type	:
	b)	Size of shaft, mm	:
		Length	
		Dia	
	c)	No. of splines	:
	d)	Method of fixing	:
	e)	No. and type of bearing	:
	f)	Safety device, if any	:
<b>2.2</b>	<b>Gear box</b>		
	a)	Type	:
	b)	No. of teeth on gears	:

		Drive Driven	
	c)	Length of splines, mm	
	d)	Number of splines	
	e)	Gear ratio	
	f)	Oil capacity, l	
	g)	Method of driving arrangement and location.	
	h)	No. and bearings	
<b>2.2</b>		<b>SIDE SUPPORT</b>	
	a)	Type of frame	:
	b)	Thickness of plate, mm	:
	c)	Method of fixing to main frame	:
<b>2.3</b>		<b>SHIELD (TOP COVER)</b>	
	a)	Type	:
	b)	Size of shield, mm	:
	c)	Thickness of sheet, mm	:
	d)	Method of fixing to main frame	:
<b>2.4</b>		<b>TRAILING BOARD</b>	:
<b>2</b>		<b>ROTOR SHAFT</b>	
	a)	Type	:
	b)	Length of shaft, mm <ul style="list-style-type: none"> <li>• Ground wheel side</li> <li>• Opposite to ground wheel side</li> <li>• Dia. of shaft</li> </ul>	:
	c)	Size of rotor pipe, mm	:
	d)	Method of mounting blades on shaft	:
	e)	No. of blades on shaft	:
	f)	Dia of rotor with blades, mm	:
	g)	Tractor PTO rpm corresponding to 1700 rpm of engine (on load)	:
	h)	Rotation of rotor shaft corresponding to 540 rpm of PTO shaft, rpm	:
<b>2.6</b>		<b>ROTOR BLADE</b>	
	a)	Number	:
	b)	Type	:
	c)	Overall thickness, mm	:
	d)	Thickness at tip, mm	:
	e)	Method of mounting blades on rotor pipe	:
	f)	Size of bolt, mm <ul style="list-style-type: none"> <li>• Length</li> <li>• Diameter</li> <li>• Pitch</li> </ul>	:
	g)	Size of spacer, mm <ul style="list-style-type: none"> <li>• Length</li> <li>• Diameter (Inner/Outer)</li> </ul>	:
	h)	Distance between two adjacent blades, mm	:
	i)	Peripheral speed of rotor blades (m/sec)	:
	j)	Speed index	:
	k)	Blade bracket size, mm	:

	l)	Method of arrangement of blade on rotor shaft	:	
	m)	Clearance of blade from the tip of the blade to ground, mm	:	
<b>2.7</b>	<b>Power Transmission System</b>			
	a)	Method of depth control adjustment	:	
<b>2.16</b>	<b>Three point linkage</b>			
	a)	Type	:	
	b)	Specifications of Hitch pyramid	:	As per IS:4468 Part-I, 2001 (Cl.5.1) & Part-II, 1998 (Cl.5.1) (All dimensions are in mm)

Sr.	Dimension	Description (Refer Fig.)	Dimension in mm
Upper Hitch attachments			
1	$d_1$	Diameter of hitch pin hole	
2	$b\phi$	Width between inner faces of yoke	
3	$b\phi_2$	Width between outer faces of yoke	
Lower hitch points			
4	$D_2$	Dia of hitch pin	
5	$b\phi_3$	Linch pin hole distance	
6	$l$	Lower hitch point span	
Other dimensions			
	Diameter of linch pin hole		
7	$d$	For upper hitch pin	
8		For lower hitch pin	
9	$h$	Mast height	

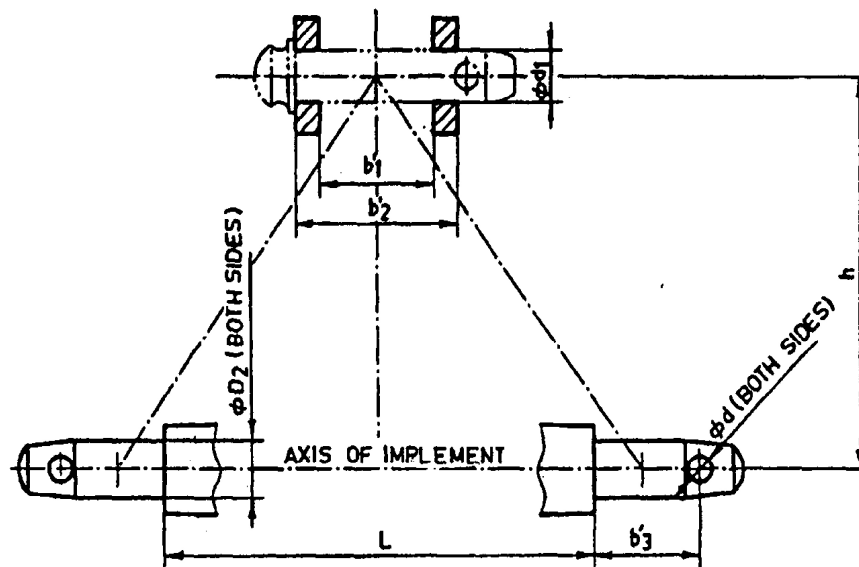


Fig. : Implement Hitch Attachment

<b>2.20</b>	<b>Overall dimensions (mm) :</b>			
	a)	Length	:	
	b)	Width	:	
	c)	Height	:	
	d)	Ground clearance	:	

Place:  
Date:

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

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

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