

## FARM MACHINERY TESTING CENTRE

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## SPECIFICATION SHEET OF SEED CUM FERTILIZER DRILL

1.0	General:				
	a)	Name	:		
	b)	Address of manufacturer			
	c)	Address of applicant			
	d)	Туре	:		
	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			
	I)	Recommended power of	:		
		tractor, if tractor operated			
	m)	Location of fertilizer outlet in	:		
		relation to seed outlet.			
2.0	Cor	nstructional Details			
2.1		Mainframe			
		Material detail			
		Size			
2.2	Fur	row openers:	•		
	a)	Туре	:		
	b)	No. of openers :	:		
	c)	Arrangement of Openers	:		
	d)	Range of selection of openers	:		
	e)	Method of changing row space	:		
		and range			
	f)	Nominal width (cm)	:		
	g)	Lifting and lowering of openers	:		
	h)	Depth control	:		
	i)	Fertilizer placement with	:		
		respect to seeds.			
2.3		ering mechanism:	, ,		
	a)	Seed metering device	:		

		1) Type	:				
		2) Size of feed shaft (mm)	:				
		3) Size (dia) and number of	:	Fe	ed Roller No.	No. of cells	Cell size (mm)
		fluted rollers (in case of plate			1		
		type, the number of holes)			2		
					3		
					4		
					5		
					6		
					7		
		4) Source of power (ground	:				
		wheel or other)					
		5) Transmission ratio of shaft of	:				
		seed metering device to land					
		wheel axle					
		6) Type of agitator	:				
		7) Method of feed rate control	:				
		for different sizes of seeds					
		8) Provision for closing seed	:				
		discharge.	_				
2.4	Цa	9) Fertilizer distributor	:				
2.4		pper:		٦.			
	a)	Capacity (kg)  1) Seed box		+			
		Seed box     Fertilizer box		:			
	b)	,		:			
2.5		Type of hoppers rker details:		•			
2.5		Type		:			
	a) b)	Details of range of adjustment		:			
2.6		ed covering arrangement:		•			
2.0	a)	Type		:			
	b)	Size (mm)		:			
2.7		oe of hitch and its details :		1.			
	الان a)	Type					
	b)	Specifications of Hitch pyramid		:	As per IS:446	68 Part-I. 2001	(Cl.5.1) & Part-
	-,						ions are in mm)
	6.	Dimension   Description (Pete	_		, - (-110		on in mm

Sr.	Dimension	Description (Refer Fig.)	Dimension in mm			
Upp	Upper Hitch attachments					
1	1 d <sub>1</sub> Diameter of hitch pin hole					
2	b' <sub>1</sub>	Width between inner faces of yoke				
3	b' <sub>2</sub>	Width between outer faces of yoke				
Low	er hitch points					
4	D <sub>2</sub>	Dia of hitch pin				
5	b' <sub>3</sub>	Linch pin hole distance				
6	I	Lower hitch point span				
Othe	er dimensions					
	Diameter of linch pin hole					
7	d	For upper hitch pin				
8		For lower hitch pin				
9	h	Mast height				

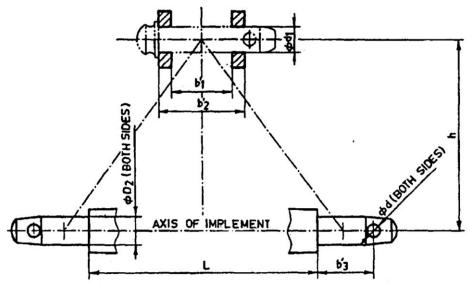


Fig. : Implement Hitch Attachment

2.8	Gro	Ground drive details :				
	a)	No. of wheels	:			
	b)	Type of wheel	:			
	c)	Size (mm)	:			
	d)	Circumference (mm)	:			
	e)	Method of transmitting power to feed shafts	:			

2.9	Details of adjustments :				
	Sr.	Adjustments	:		
	1.	Feed rate	:		
	2.	Spacing of furrow openers	:		
	3.	Depth of sowing	:		
	4.	Height of covering device	:		
	5.	Drive wheel height	:		
	6.	Reduction ratio of drive mechanism	:		
	7.	Bund forming device	:		
2.10		ails of safety arrangement for	:		
		ting parts			
2.11	Ove	rall dimensions (mm) :			
	a)	Length	:		
	b)	Width	:		
	c)	Height	:		
	d)	Weight with seeds and fertilizer (kg)	:		
	e)	Ground clearance	:		
2.12	Number of greasing points:				
	a)	Drive wheel bearing	:		
	b)	Depth control wheel bearing	:		
	c)	Chain & sprocket	:		
	d)	Seed & fertilizer metering shaft	:		

2.13	Deta	ils of material of constru	ction :	
	Sr.	Name of part	Material	Section of size in mm
	1	2	3	4
	1	Feed shafts		
	2	Seed and fertilizer box		
	3	Tyne		
	4	Boot		
	5	Seed/fertilizer tube		
	6	Covering device		

2.14	Materi	al of construction:		
	Sr.	Component	Material	Used material
	1	2	3	4
	i)	Frame and toolbar	Mild Steel	
	ii)	Wheel	Mild Steel/ Cast Iron/	
			Pneumatic type	
	iii)	Axle and shaft	Mils steel	
	iv)	Seed and fertilizer	Mild Steel/ Galvanized	
		boxes	sheet/ Seasoned wood/	
			Plastic/ Fiber glass/	
			Reinforced plastic	
	v)	Tines	Mild Steel / Carbon steel	
	vi)	Boot	Mild Steel/ Cast Iron	
	vii)	Furrow opener	High Carbon Steel	
	viii)	Seed agitator	Mild Steel/ Cast Iron/	
			Aluminum/ PVC/ Rubber/	
			Canvas	
	ix)	Fertilizer agitator	Mild Steel/ Cast Iron/	
			Aluminum/ Canvas	
	x)	Seed and fertilizer	Steel ribbon/ Plastic/	
		tubes	Rubber	
	xi)	Seed metering	Cast Iron/ Mild Steel/ Nylon	
		mechanism (fluted feed		
		roller type)		
	xii)	Fertilizer metering	Cast Iron/ Mild Steel/ Nylon	
		mechanism (fluted feed		
		roller type)		
	xiii)	Bushes	Brass/ Gun metal/ Nylon	
	xiv)	Covering device	Mild Steel/ Cast Iron/	
			Seasoned wood	
	XV)	Pulley, sprocket	Cast Iron/ Mild Steel	
	xvi)	Hitching mechanism	Mild Steel	
	xvii)	Feed adjusting	Mild Steel/ Cast Iron	
		mechanism		
	xviii)	Depth adjusting	Mild Steel	
		mechanism		
	xix)	Row marker	Mild Steel/ Cast Iron	

2.15	Accessories	
	drill:	
	a) Foot broad	
	b) Covering device	
	c) Row marker	
	d) Press wheel	

	e) Area recorder.
2.16	Marking and packing
	Marking: Each drill shall be marked with the following particulars:
	a) Indication of the source of manufacture
	b) Model, code and serial number
	c) Type and size
	d) Type of seeds (suitability)
	e) Mass
	f) Permanent type metallic calibration plate
	indicating the metering position and quantity of
	seed and fertilizer
Place:	
riace.	
Date:	
Dute.	
	Signature :
	<u> </u>
	Name :
	ivallie
	Designation: