



Farm Machinery Testing and Training Centre
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SPECIFICATION SHEET OF TRACTOR OPERATED POTATO DIGGER

1.0	General	:	
	Name of machine	:	
	Name and address of manufacturer	:	
	Name and address of applicant	:	
	Selling price in India	:	
2.1	Main frame:		
	a) Type and material	:	
	b) Size (mm)	:	
2.2	Blade:		
	a) Type and material	:	
	b) Number	:	
	c) Width (mm)	:	
		Side blade	:
		Centre blade	:
		Total	:
	d) Inclination, Min. and Max.	:	
	e) Clearance from ground (mm)	:	
	f) Clearance from transmission shaft casing (mm)	:	
	g) Thickness (mm)	:	
	h) Distance from centre to centre of blades (mm)	:	
2.3	Elevator chain conveyor :		
	a) Material	:	
		Size (mm)	:
		Length	:
		Width	:
	b) Pitch	:	
	c) Chain rod diameter (mm)	:	
	d) Number of rods	:	
	e) Flat belt width joining the road (mm)	:	
	f) Slope	:	
		Front side	:
		Rear side	:
2.4	Disc :		
	a) Material	:	
	b) Size (mm)	:	
	c) Number	:	
	d) Spacing (mm)	:	
	e) Hub diameter (mm)	:	
2.5	Transmission :		
	a) Front pulley diameter (mm)	:	
	b) Rear pulley diameter (mm)	:	
	c) V-belt size, number	:	

	d)	Gear box reduction ratio	:	
	e)	V-belt lightener, width (mm)	:	
	f)	Dia. of casing of output shaft (mm)	:	
	g)	Dia. of rear drive shaft (mm)	:	
	h)	Dia. of idler shaft (mm)	:	
	i)	Dia. of agitator shaft (mm)	:	
	j)	Dia. of idler roller shaft (mm)	:	
	k)	Dia. of front idler (mm)	:	
	l)	Driving sprocket teeth (Nos.)	:	
2.6	Safety features :			
	a)	PTO guard	:	
	b)	V-belt guard	:	
2.7	Type of hitch and its details :			
	a)	Type and material	:	
	b)	Shape	:	

Specification of Hitch Pyramid As per IS: 4468-1997 (Part-I)

Sr.	Dimension (Refer Fig.1)	Description	Measurement
Upper Hitch attachments			
1	d_1	Diameter of hitch pin hole	
2	b'_1	Width between inner faces of yoke	
3	b'_2	Width between outer faces of yoke	
Lower hitch points			
4	D_2	Dia. of hitch pin	
5	b'_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	

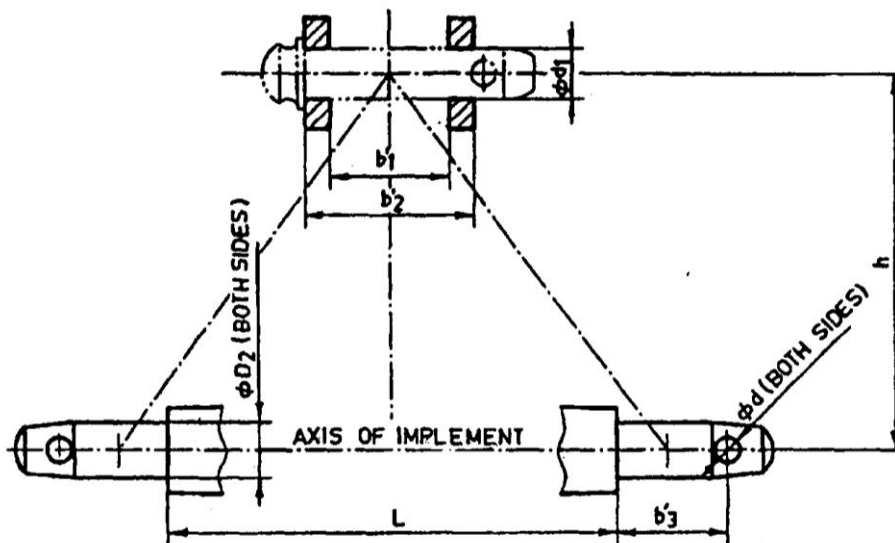


Fig. 1 : Implement Hitch Attachment

2.8	Spline end of digger input shaft:	Ref. Fig.2
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a)	PTO Type and material	:	
b)	Nominal speed (rpm)	:	
c)	Nominal dia.(mm)	:	
d)	Number and type of splines	:	

Dimension of Implement Power Input Shaft As per IS: 4931-1995

Sr.	Specification/ Notations (Refer Fig.2)	Measurement
1	PTO Type	
2	Nominal speed (rpm)	
3	Nominal dia.(mm)	
4	Number and type of splines	
Dimensions (mm)		
5	D Φ	
6	d Φ	
7	B Φ	
8	A Φ	
9	W	
10	a	
11	b	
12	c	
13	x	
14	B	
15	h	

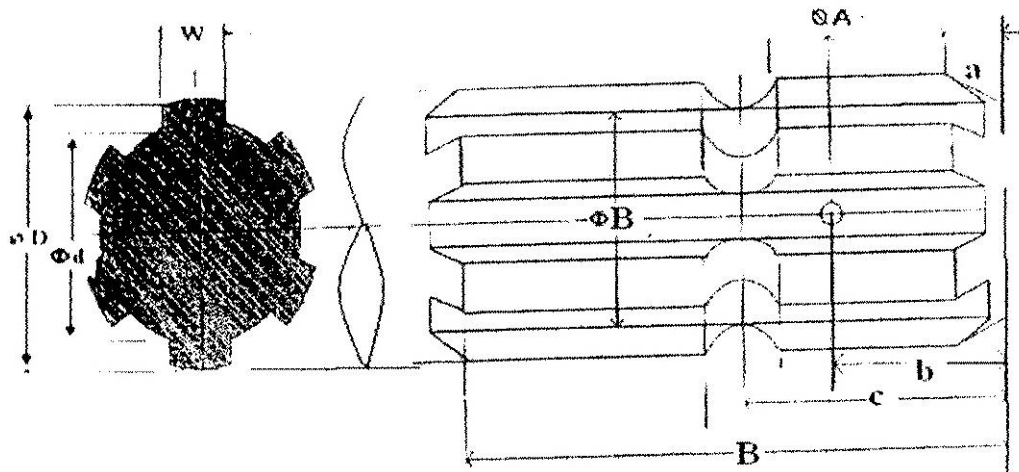


Fig. 2 Dimension of Implement Power Input Shaft

2.9	Propeller shaft:	
a)	Type and material	:
b)	Length of shaft (mm)	:
	Minimum	:
	Maximum	:
c)	Mass of shaft (kg)	:
d)	Provision for locking	:

Propeller Shaft Insert Dimensions As per IS: 4931-1995

Sr.	Notations (Refer Fig.3)	
1	D Φ	
2	d Φ	
3	W	
4	B	

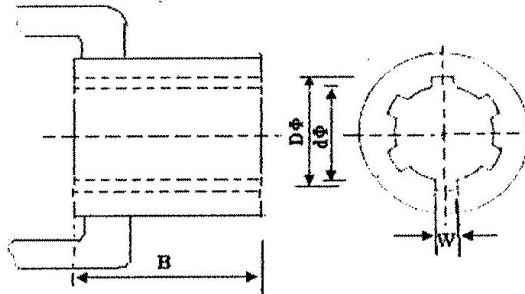


Fig. 3 : Propeller Shaft Insert Dimensions

2.10	Rear support wheel:		
	a)	Material	:
	b)	Size (mm)	:
3.0	Overall Dimensions (mm)		
	a)	Length	:
	b)	Width	:
	c)	Height	:
	d)	Mass, (kg)	:
4.0	Any other mechanism/facility		
			:
			:

4.0 Details of Material of Construction :

Sr.	Name of part	Material	Section or size in mm
1	2	3	4
1	Frame		
2	Elevator chain		
3	Blade		
4	Disc		
5	Main shaft		
6	Idler shaft		
7	Agitator shaft		
8	Sprocket		
9	Pulley		

Place:
Date:

Signature : _____

Name : _____

Designation: _____