

## Farm Machinery Testing and Training Centre Department of Farm Power and Machinery College of Agricultural Engineering and Technology DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH AKOLA- 444 104 (MS)



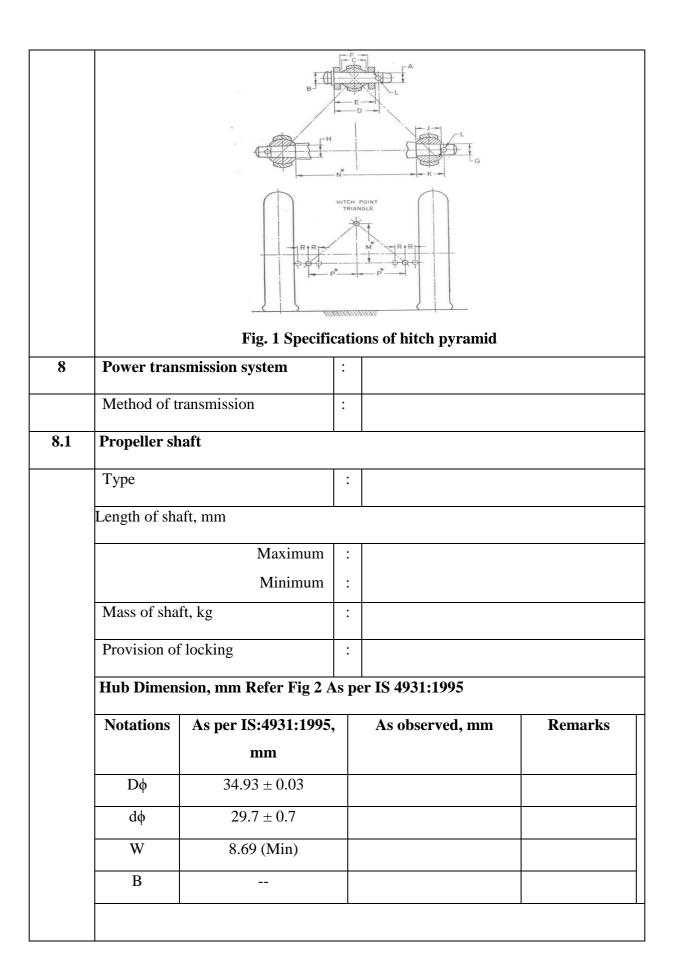
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## **SPECIFICATION SHEET OF GROUNDNUT DIGGER**

1	General				
	Name of manufacturer	:			
	Name of machine	:			
	Туре	:			
	Make	:			
	Model	:			
	Serial No	:			
	Size, mm	:			
	Year of Manufacture	:			
	Recommended power source	:			
	Power source used, kW	:			
2	Constructional details				
2.1	Main frame				
	Material	:			
	Shape	:			
	Size (L x B x T), mm	:			
3	Blade				
	Type and Material	:			
	Number	:			
	Size, mm	:			

	Inclination angle, degree	:			
	Clearance from ground, mm	:			
	Clearance from main frame, mm	:			
	Method of fixing	:			
4	Elevator chain conveyor				
	Material and type	:			
	Size, mm	:			
	Peripheral length	:			
	Width	:			
	Conveyor rack material and size, mm	:			
	Spacing between racks, mm	:			
	Number of racks	:			
	Material, Nos. and size (mm) of spikes	:			
	on racks				
	Slope of conveyor	:			
	Method of power transmission	:			
5	5 Rear support / Depth control wheel				
	Туре	:			
	Number	:			
	Size, mm	:			
	Spacing, mm	:			
	Hub Diameter, mm	:			
6	Safety features				
6.1	PTO guard				
	Material	:			
	Thickness of sheet, mm	:			
6.2	V-belt guard				
	Material	:			
	Thickness of sheet, mm	:			
	Thickness of sheet, mm	:			

Sr. No.	Notations	As per IS: 4468-	As measured,	Rema
		2001	mm	
		(Cat-I/Cat-II), mm		
I	Upper hitch point			
a)	Diameter of hitch pin	18.92 to 19.00/		
	(A)	25.37 to 25.50		
b)	Diameter of hitch pin	19.3 to 19.5/		
	hole (B)	25.70 to 25.91		
c)	Linch pin hole distance	76/93 (Min.)		
	(D)			
d)	Width between outer	69/86 (Max.)		
	faces of yoke (E)			
e)	Width between inner	44.5/52 (min)		
	faces of yoke (F)			
II	Lower hitch points			
a)	Diameter of hitch pin	21.80 to 22.01/		
		27.8 to 28.0		
b)	Diameter of hitch pin	22.40 to 22.65/		
	hole (H)	28.70 to 29.00		
c)	Linch pin hole distance	39/49 (Min.)		
	(K)			
III	Diameter of linch pin l	ıole		
a)	Upper hitch pin (L)	12/12 (min.)		
b)	Lower hitch pin (L)	12/12 (min.)		
IV	Mast height (M)	458.5 to 461.5/		
		608.5 to 611.5		
V	Lower hitch point	681.5 to 684.5/		
	spans (N)	823.5 to 826.5		



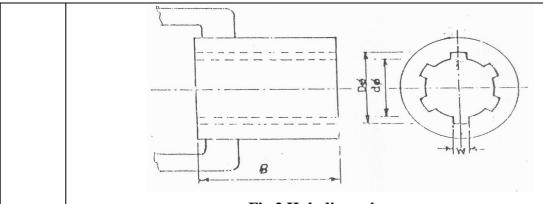


Fig 2 Hub dimensions, mm

## 8.2 Splined end of pinion shaft

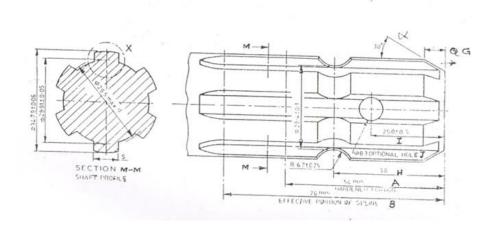


Fig 3 Dimensions of splined end of pinion shaft, mm

Specification	As per IS: 4931-	As observed	Remarks
	2004		
Dφ	34.79±0.06		
dφ	28.91±0.05		
Вф	29.4±0.1		
S	8.69		
R	6.7±0.25		
α	30°		
G	7		
Н	38		
A	54 (Min.)		
В	76 (Min.)		
I	25±0.5		
J (optional hole)	8.3		

8.3	Gear box assembly (primary redu	ction)	
	Type	:	
	No. of teeth on pinion	:	
	No. of teeth on bevel gear	:	
	Reduction ratio at gear box	:	
	Oil capacity, l	:	
	Oil change period, hr	:	
	Recommended grade of oil	:	
	Length of power transmission	:	
	shaft (mm) (from gear box to		
	front pulley)		
	Diameter of shaft, mm	:	
	Provision of breather	:	
8.4	3.4 Gear box to conveyor upper pulley (secondary reduction)		
	Front pulley diameter, mm	:	
	Rear pulley diameter, mm	:	
	V-belt size, number	:	
	Provision of belt tightening	:	
	Dia. of casing of output shaft, mm	:	
	Dia. of rear drive shaft, mm	:	
9	Windrowing mechanism		
	Type and material		
10	Overall dimensions	:	
	(L x B x H), mm		
11	Mass, Kg	:	
12	Colour of implement	:	
	_L	<u>ı ı</u>	
Place:			
Date:			

	V-belt size, number	:	
	Provision of belt tightening	:	
	Dia. of casing of output shaft, mm	:	
	Dia. of rear drive shaft, mm	:	
9	Windrowing mechanism	ı	
	Type and material	:	
10	Overall dimensions	:	
	(L x B x H), mm		
11	Mass, Kg	:	
12	Colour of implement	:	
ace: nte:			Signature :
			Designation: