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SPECIFICATION SHEET OF Tractor Mounted Power Shredder

1	General:		
	Name of Manufacturer/ applicant and Address	:	
	Type	:	
	Make	:	
	Model	:	
	Year of manufacture	:	
	Serial number	:	
	Tractor horse power required, hp	:	
	Size of shredder, mm	:	
2	Prime mover used:		
	Tractor	:	
	Max. PTO Power, kW	:	
3	Constructional Details		
3.1	Main frame		
	Type	:	
	Size of box section, mm	:	
	Size of front support, mm		
	Square Tube	:	
	C - Section	:	

	Type of mounting box section	:	
3.2	Side support:		
	Number	:	
	Material	:	
	Thickness of plate, mm	:	
	Size, mm	:	
	Method of fixing	:	
4	Rotor Shaft and Assembly:		
	Material	:	
	Type	:	
	Size of rotor shaft	:	
	Length of shaft, mm	:	
4.1	Rotor Blade:		
	Total no number of blades	:	
	Type of blade	:	
	Material	:	
	Overall thickness, mm	:	
	Thickness at beveled edge, mm	:	
	Length of the beveled edge, mm	:	
	Peripheral speed of rotor blades, m/sec	:	
	Speed of rotor shaft corresponding to 540 rpm of PTO shaft, rpm	:	

5	Depth control mechanism:				
5.1	Support wheel :				
	Type	:			
	Size, mm	:			
	Method of mounting	:			
5.2	Skid:				
	Type	:			
	Size, mm	:			
	Number of skid	:			
	Method of mounting	:			
6	Three point linkage: (Refer Fig.1)				
	Three point linkage Dimensions				
	Sl. No.	Notation	As per Is:4468-2001 (Cat-I/Cat-II) (mm)	As measured (mm)	Remarks
	I	Upper hitch point			
	a)	Diameter of hitch pin (A)	25.37 to 25.50		
	b)	Diameter of hitch pin hole (B)	25.70 to 25.91		
	c)	Width between outer faces of yoke (E)	86 (Max.)		
	d)	Width inner faces of yoke (F)	52 (Min.)		
	II	Lower hitch points			
	a)	Dia of hitch pin	27.8 to 28		
	b)	Diameter of hitch pin hole (H)	28.7 to 29		
	c)	Linch pin hole distance (K)	49 (Min.)		
	d)	Dia. of Linch pin hole	12.0 (Min)		
	III	Mast height	608.5 to 611.5		
	IV	Lower hitch point spans (N)	823.5 to 826.5		

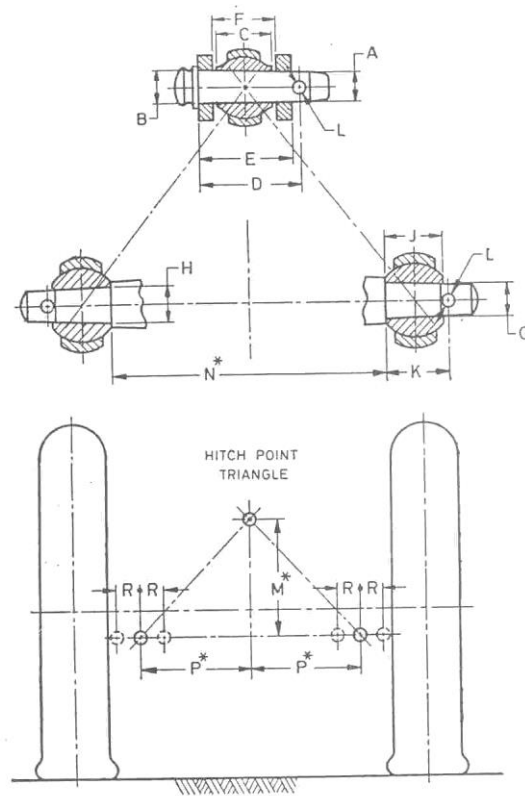


FIG. 1. DIMENSIONS OF HITCH POINTS

7 Mast:

Type	:	
Size of flat, (mm)	:	

8 Power transmission system:

7.1 Dimensions of Splined end of pinion shaft, (mm) (Refer Fig. 2) :

Specification	As per IS: 4931-2004	As observed	Remarks
1	2	3	4
DΦ	34.79±0.06		
dΦ	28.91±0.05		
BΦ	29.4±0.1		
S	8.69		

R	6.7±0.25		
α	30°		
G	7		
H	38		
A	54 (Min.)		
B	76 (Min.)		
I	25±0.5		
J (optional hole)	8.3		

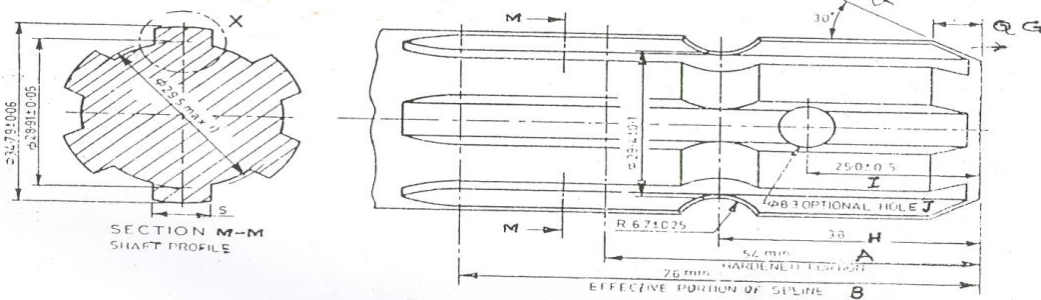


Fig. 2: Dimensions of Implement Power Input Shaft, mm

7.2 Transmission (Primary Reduction):

Type	:	
No. of teeth on drive gear	:	
No. of teeth on driven gear	:	
Reduction ratio at gear box	:	
Oil Capacity, lit.	:	
Oil change period, Hrs	:	
Length of power transmission shaft, mm	:	

	Diameter of shaft, mm	:		
	Provision of breather	:		
	Provision for Dipstick	:		
	Number of bearing	:		
Transmission (Secondary Reduction):				
	Type	:		
	No. of Pulley	:		
	Type of pulley	:		
	Diameter of Drive Pulley , mm	:		
	Diameter of Driven Pulley, mm	:		
7.3	Propeller shaft:			
	Type: Telescopic (with two segments) having one universal joint on each segment with splined ends to insert the PTO of tractor and drive shaft of bevel box.			
	Length of the shaft, mm:-			
	-Minimum	:	670	
	-Maximum	:	800	
	Mass of shaft, kg	:	13.75	
	Provision for locking	:	Provided 2 push pins at both end for locking	
7.4	Propeller shaft insert dimension (Refer Fig.3):			
	Sr. No.	Notations	Dimensions (mm)	Conformity to IS
			As per IS: 4931-2004	
	1	D ϕ	34.93 \pm 0.03	

2	dφ	29.7 ± 0.1		
3	W	8.69		
4	B	54 (min)		

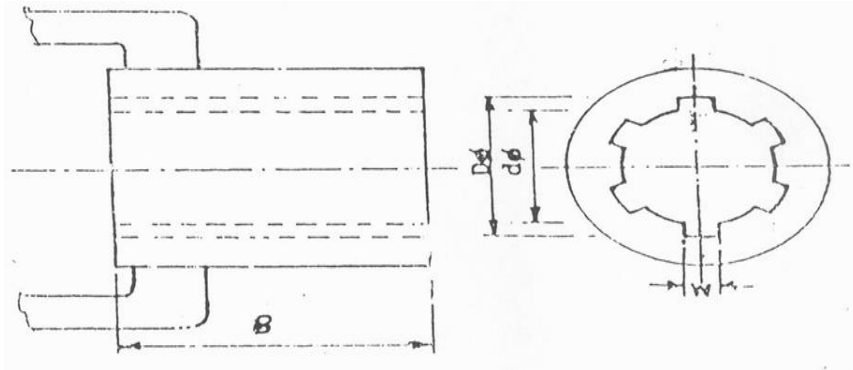


Fig. 3: PROPELLER SHAFT INSERT DIMENSIONS, (mm)

8	Safety clutch/device	:	
9	Overall Dimensions		
	Length, mm	:	
	Width, mm	:	
	Height, mm	:	
10	Mass of the Machine, kg	:	