

Farm Machinery Testing and Training Centre

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SPECIFICATION SHEET OF TRACTOR OPERATED BOOM SPRAYER

1	General			
	Name and address of manufacturer	:		
	Name and address of applicant	:		
	Name of machine	:		
	Type	:		
	Make	:		
	Model	:		
	Batch No/Code No.	:		
	Capacity of Sprayer, l			
	Serial No			
	Recommended working pressure,			
	kg/cm ²			
	Output capacity, l/min	:		
	Year of Manufacture	:		
	Optional boom	:		
	Mass, kg.	:		
2	Recommended Source of Power	:		
	Prime More Used, kW			
2.1	Propeller shaft			
	Type			
	Length of shaft, mm			

Maximum	:	
Minimum	:	
Mass of shaft, Kg	:	
Provision of locking	:	

Hub Dimension, mm Refer fig.1 As per IS 4931:1995, mm

Notation	As per IS:4931:1995,	As observed, mm	Remarks
	mm		
Дφ	34.93 ± 0.03		
dφ	29.7 ± 0.7		
W	8.69 (Min)		
В			

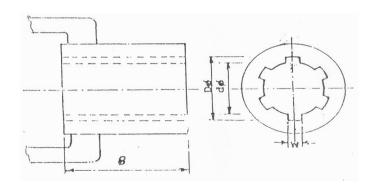


Fig 1 Hub dimensions

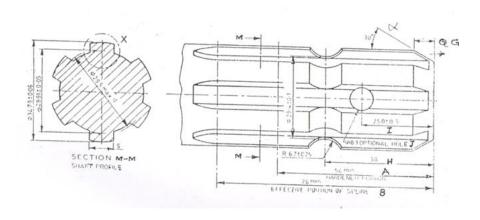
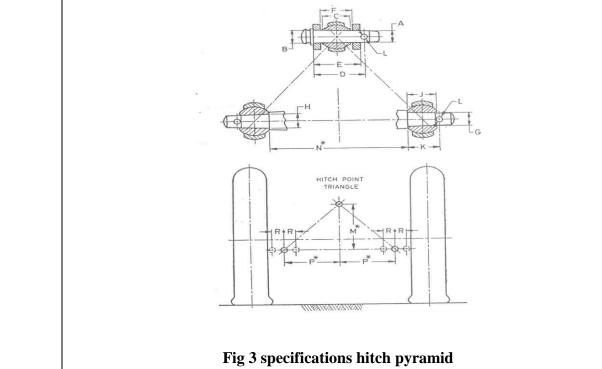


Fig 2 Dimensions of splined end of pinion shaft, mm

	Specification	As per IS: 493	1-	As observed,	Remarks
		2004		mm	
	1	2		3	4
	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			
3	Pump Description				
	Make of pump		:		
	Туре		:		
	No. of Plunger		:		
	Recommend pump speed for		:		
	spraying, rpm				
	Suction Volume, l/n	nin	:		
	Rated pressure for sp Kg/cm ²	praying,	:		
	Pump, kW		:		

4	Tank					
	Shape		:			
	Size, mm (L x B x H)		:			
	Capacity, lit		:			
	Material		:			
	Method of Mounting		:			
6	Main Frame					
	Туре		:			
	Size, mm (Length X Wid	lth)	:			
7	Agitation Device		:			
8	Nozzle of boom					
	Туре		:			
	Nos. of nozzles		:			
	Arrangement of nozzles		:			
	Recommended working pressure,					
	kPa					
	Recommended discharge	ecommended discharge rate,				
	ml/min (for Cone & Jet spray)					
	Recommended cone angl					
	3kg/cm ² pressure, degree					
9	Mounting arrangement		:			
9.1	Three point linkage, (Fig. 3)					
Sr.	Notations	As p	_		As measured,	Remarks
No.		Is: 4468-20 (Cat-I/Cat-			mm	
		mm		·)•		
I	Upper hitch point					
	Diameter of hitch pin	18.92 to 19.0				
	(A) Diameter of hitch pin	25.37 to 19.3 to				

hole (B)	25.70 to 25.91	
Linch pin hole distance	76/93 (Min.)	
(D)		
Width between outer	69/86 (Max.)	
faces of yoke (E)		
Width between inner	44.5/52 (min)	
faces of yoke (F)		
Lower hitch points		
Diameter of hitch pin	21.80 to 22.01/	
	27.8 to 28.0	
Diameter of hitch pin	22.40 to 22.65/	
hole (H)	28.70 to 29.00	
Linch pin hole distance	39/49 (Min.)	
(K)		
Diameter of linch pin hol	e	1
Upper hitch pin (L)	12/12 (min.)	
Lower hitch pin (L)	12/12 (min.)	
Mast height (M)	458.5 to 461.5/	
	608.5 to 611.5	
Lower hitch point	681.5 to 684.5/	
spans (N)	823.5 to 826.5	
	Linch pin hole distance (D) Width between outer faces of yoke (E) Width between inner faces of yoke (F) Lower hitch points Diameter of hitch pin Diameter of hitch pin hole (H) Linch pin hole distance (K) Diameter of linch pin hol Upper hitch pin (L) Lower hitch pin (L) Mast height (M)	Linch pin hole distance (D) Width between outer faces of yoke (E) Width between inner faces of yoke (F) Lower hitch points Diameter of hitch pin Diameter of hitch pin bole (H) Linch pin hole distance (K) Diameter of linch pin hole Upper hitch pin (L) Lower hitch pin (L) Mast height (M) 458.5 to 461.5/ 608.5 to 611.5 Lower hitch point 681.5 to 684.5/



10	Filter	
	Make	:
	Mesh size	:
	Size (dia. and length), mm	:
	Arrangement	:
11	Boom	
	Type	:
	Material	:
	Size, mm	:
	Height from ground, mm	
	Maximum	:
	Minimum	:
	Range of adjustment of height, mm	:
	Provision of height adjustment	:
	Method of attachment	:
12	Parking stand	
	Туре	:
	Material	:
	Size, mm	:
	No of stand	:
	Arrangement	:
13	Accessories	:
13.1	For operators safety against	:
	pesticides	
13.2	Tool kit	:
14	Overall dimensions, mm	
	Length, mm	:
	Without folding of boom	:
	With folding of boom	:
	Width, mm	:
	Height, mm	:
15	Mass with all accessories and	:
	without fuel and chemicals, kg	
16	Mass with all accessories, fuel and	:
	chemicals tank, kg	

17	Application/Area of Use			
18	Marking /	Marking / Labelling		
	Sr. No.	Parameter	:	Description
	1	Make	:	
	2	Model	:	
	3	Sr. No.	:	
	4	Tractor power required	:	
	5	Year of manufacturing	:	
	6	e-mail/website	:	
	7	Name and address of	:	
		manufacturer		

Place:	
Date:	Signature:
	Name:
	Designation: