



भारत सरकार / GOVERNMENT OF INDIA
उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
Northern Region Farm Machinery Training and Testing Institute
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TECHNICAL SPECIFICATIONS FOR HARROW

1	General:		
	Name of the implement	:	
	Type	:	
	Make	:	
	Model	:	
	Serial No.	:	
	Name of address Manufacturer/Importer	:	
	Name and address of Applicant	:	
	Year of manufacture	:	
	Brand name, if any	:	
	Working width of implement, mm	:	
Country of origin	:		
2	Recommended source of prime mover:		
	Make	:	
	Model	:	
	Minimum recommended power, kW (PTO power in case of tractor)	:	
3	Constructional details:		
3.1	Front gang frame:		
	Material & size, mm	:	
	Dimension of frame (L xW), mm	:	
3.2	Rear gang frame:		
	Material & size, mm	:	
	Dimension of frame (L xW), mm	:	
3.3	Loading platform:		
	Type	:	
	Location	:	

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	Material & size, mm	:	
	Dimension of platform (L xW), mm	:	
3.4	Gang assembly:		
	Type	:	
	No. of gangs:		
	-Front	:	
	-Rear	:	
	Length of gang, mm:		
	-Front	:	
	-Rear	:	
	No. of discs on each gang:		
	-Front	:	
	-Rear	:	
	Gang angle, °	:	
	Gang angle adjusting mechanism	:	
	Method of fixing	:	
3.4.1	Gang shaft:		
	Type & material	:	
	Dimensions of shaft, mm	:	
	Length of threaded portion, mm	:	
	Diameter of threaded portion, mm	:	
3.4.2	Bearing spool:		
	Type & material	:	
	No. of bearing spools on each gang:		
	-Front	:	
	-Rear	:	
	OD/ID of casing, mm	:	
	Length of casing, mm	:	
	Make, Type, size & No. of bearing in each spool, mm	:	
Provision for lubrication	:		
3.4.3	Spool:		
	No. on each gang:		
	-Front	:	
	-Rear	:	
	Type	:	
	Matrrial	:	
3.4.4	Bumper:		
	Number	:	
	Type	:	
	Material & size, mm	:	
	Method of fixing	:	

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3.5	Scrapper assembly:		
	Number	:	
	Type	:	
	Material & size, mm	:	
	Method of fixing	:	
3.6	Disc:		
	No. of discs	:	
	Type	:	
	Material	:	
	Number of discs on each gang:		
	-Front	:	
	-Rear	:	
3.4	Hitch assembly:		
	Type	:	
	Hitch hole diameter, mm	:	
	Size (L x W x T), mm	:	
	Provision for lateral adjustment	:	
	Size, mm:		
	-Front	:	
	-Rear	:	
	Shape	:	

3.4.1 Dimensions of hitch of implement as per IS 17231:2019 (Table 4) (Ref. Fig. 4) (For tractor mounted implements only):

Dimensions	Specifications	Dimensions in mm		Remarks
		As per IS 17231:2019	As measured	
Upper hitch point				
D ₁	Dia. of hitch pin	25.5 to 0.13		
b ₁	Width between inner faces of yoke	52 (Min.)		
Lower hitch attachments				
D ₂	Dia. of hitch pin	28.0 to 0.2		
b ₃	Linch pin hole distance	49 (Min.)		
b ₅	Clevis width hole	65+2.0		
l	Lower hitch point span	683±1.5		
Other Dimensions				
d	Diameter for linch pin hole			
	For Upper hitch pin	12 (Min.)		
	For Lower hitch pin	12 (Min.)		
h	Mast height	610±1.5		

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4	Arrangement for transport (For trailed type implements):	
	Type	:
	Transport hitch:	
	Type	:
	Size of clevis, mm:	
	Size of bar	:
	Diameter of pin hole	:
4.1	Transport wheels:	
	Type	:
	Numbers	:
	Make & Size	:
	Location	:
5	Marking/Labeling of implement:	
6	Overall dimensions (mm):	
	Length	:
	Width	:
	Height	:
7	Mass (kg)	:
8	Colour	:

Date:

Place:

Signature:

Name of signatory:

Designation:

Name & address of firm:

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