



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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[ISO - 9001 : 2015 CERTIFIED]

TECHNICAL SPECIFICATIONS OF MOULD BOARD PLOUGH

4.1	General:	
	Name of implement	:
	Name & address of manufacturer	:
	Name & address of applicant	:
	Type of implement	:
	Make	:
	Model	:
	Brand Name	:
	Year of manufacture	:
	Serial No	:
	No. of plough bottoms	:
	Size of plough, mm	:
Recommended source of power, hp/Kw	:	
4.2	Prime mover used:	
	Tractor used during test (Details as per labeling plate)	:
	Make	:
	Model	:
	Month and year of manufacture	:
	Engine serial No	:
	Chassis Serial No	:
	Max P.T.O. power, kW (hp)	:
Specific fuel consumption corresponding to maximum power, g/kWh	:	
4.3	Constructional details:	
4.3.1	Main Frame:	
	Constructional details	:
	Dimensions, mm	:
	No. & size of rectangular beam	:
	No. & size of flats, mm:	:
Number; size & spacing of holes on main frame for fixing each standard, mm	:	
4.3.2	Standard:	
	Numbers	:
	Material	:
	Dimensions, mm	:

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	- Effective length of each standard	:	
	-Thickness of standard flats	:	
	No., size & spacing of holes on each standard for fixing frog, mm	:	
	Method of fixing	:	
4.3.3	Plough Bottoms:	:	
	Constructional details	:	
	Numbers	:	
	Type	:	
	Size of bottom, mm	:	
	Vertical suction, mm	:	
	Horizontal suction, mm	:	
4.3.3.1	Mould Board:		
	Type	:	
	Material	:	
	Perimeter, mm	:	
	No. & size of holes on each mould board, mm	:	
	No. size & type of bolts:	:	
	- for share point	:	
	- for frog	:	
	- for brace	:	
Method of fixing	:		
4.3.3.2	Mould board extensions (Rear):		
4.3.3.2.1	Rear Extension		
	Type	:	
	Material	:	
	Perimeter, mm	:	
	Thickness, mm	:	
	No. and size of holes, mm	:	
4.3.3.2.2	Front Extension:		
	Type	:	
	Material	:	
	Perimeter, mm	:	
	Thickness, mm	:	
	No. and size of holder, mm	:	
4.3.3.3	Shin:		
	Type	:	
	Material	:	
	Perimeter, mm	:	
	Thickness, mm	:	
	Method of mounting	:	
4.3.3.4	Share:		
	Type	:	
	Material	:	
	Constructional details	:	

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	Dimensions, mm	:	
	No. & size of holes on share, mm	:	
	Method of fixing	:	
4.3.3.5	Share Bar:		
	Type	:	
	Material	:	
	Size, mm	:	
	Dimensions, mm	:	
	Method of fixing	:	
4.3.3.6	Land Side:		
	Number	:	
	Material	:	
	Thickness, mm	:	
	Dimensions (mm):		Front
	-Length	:	
	-Width	:	
	-Height	:	
	Method of fixing	:	
4.3.3.7	Braces:		
	Numbers	:	
	Type	:	
	Material	:	
	Size, mm	:	
	No. & size of holes for each brace, mm	:	
	Length, mm	:	
	Method of fixing	:	
4.3.3.8	Frog:		
	Numbers	:	
	Material	:	
	Constructional Details	:	
	No. & size of holes on frog, mm	:	
	-for mould board	:	
	-for share	:	
	-for standard	:	
4.3.4	Reversing Mechanism:		
	Type	:	
	Method of operation	:	
4.4	Hydraulic pipe details:		
	Make	:	
	Diameter (OD), mm	:	
	Length, mm	:	
	Size of adopter/coupler Dia., mm	:	
4.5	Ram Cylinder details:		
	Overall length, mm	:	
	Piston diameter, mm	:	
	Stroke length, mm	:	

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	Distance between hole to hole, mm	:		
	Outer dia. of cylinder, mm	:		
	Inner dia. of cylinder, mm	:		
	Piston (rod) dia., mm	:		
	Length of piston (rod), mm	:		
	Make & model of hydraulic components	:		
	Distributor	:		
	Control valve unit	:		
	Cylinder & piston	:		
	Pipe line	:		
	Adopter/Coupler	:		
4.7	Main Shaft:			
	Construction details	:		
	Method of Fixing	:		
4.8	Hitch Pyramid:			
	Construction Details	:		
4.8.1	Dimensions of hitch of implement as per IS 17231:2019 (Table 4) (Ref. Fig. 4):			
Dimensions	Specifications	Dimensions in mm		Remarks
		As per IS 17231:2019 (Cat-I/Cat-2)	As measured	
Upper hitch point				
D ₁	Dia. of hitch pin	25.37 - 25.50		
b ₁	Width between inner faces of yoke	52 (Min.)		
Lower hitch attachments				
D ₂	Dia. of hitch pin	27.8 - 28.0/ 27.8 - 28.0		
b ₃	Linch pin hole distance	49 (Min.)		
b ₅	Clevis width hole	65 - 67		
l	Lower hitch point span	683±1.5/ 825 ± 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	460±1.5/ 610 ± 1.5		
5	Overall dimensions (mm):			
	Length	:		
	Width	:		
	Height	:		
6	Mass, kg	:		
7	Colour	:		

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8	Labeling plate:		

Date:
Place:

Signature:
Name of signatory:
Designation:
Name & address of firm:

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