

## DEPARTMENT OF FARM MACHINERY AND POWER ENGINEERING COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY CCS HARYANA AGRICULTURAL UNIVERSITY HISAR-125004, HARYANA



Phone:01662-255447	e-mail: fpm@hau.ernet.in
	http://hau.ernet.in
	hau.machinerytesting@gmail.com

## SPECIFICATION SHEET OF TRACTOR MOUNTED HYDRAULIC REV. M. B. PLOUGH

1.0			:	
	Name of machine		:	
Ī	Nam	e and address of manufacturer		
Ī	Nam	e and address of applicant	:	
•	Selling price in India			
•				
2.1	Fra	me:		
	a)	Constructional details	:	
	b)	Dimensions (mm):		
		Length	•	
		Width	•	
	11	-At front		
		-At rear	•	
	iii	Number & size of holes on frame	•	
	111	for fixing standard (mm)	•	
2.2	Sta	ndard:		
	a)	Numbers	:	
	b)	Material	:	
		Type	:	
	d)	Dimensions (mm)		
		- Projected length	:	
		- Curved length	:	
		- Width	:	
		- Thickness	:	
	e)	No., size & spacing of holes for	:	
		fixing frog (mm)		
	f)	No. & size of holes for fixing to		
		the frame		
	g)	Method of fixing	:	
2.3	Plough Bottoms:			
	a)	Numbers	:	
	b)	Type	:	
	c)	Size of plough (mm)	:	
	_	Vertical suction (mm)	:	
	e)	Horizontal suction (mm)	:	
	f)	Constructional details	:	
2.3.1	_	uld Board:		
	a)	Numbers	:	
	b)	Туре	:	
	c)	Material	:	
	d) Dimensions (mm):			

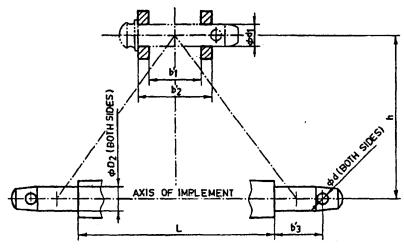
1		- Length		
		- Width	:	
		- Thickness	•	
	e)	No & size of hole on mould	:	
	()	board (mm)	•	
	f)	Method of fixing mould board	:	
2.3.2		are:	•	
2.3.2	a)	Туре	:	
	b)	Constructional details	:	
	c)	Dimensions (mm)		
	d)	Angle of inclination of share	÷	
	u)	along the direction of travel	•	
		(deg.)		
	e)	No & size of holes on share	:	
	,	(mm)	•	
	f)	Method of fixing share to the	:	
	-/	bottom		
2.3.3	Sh	are bar (Bar-point):		
	a)	Type	:	
	b)	Material		
	c)	Dimensions (mm)	:	
2.3.4		n of mould board:		
2.3.4	a)	Numbers	:	
		Material & thickness (mm)	:	
	c)	No & size of hole on shin for	:	
	()	fixing on frog	•	
2.3.5	Lai	ndside:		
2.3.3	_	Numbers		
	a)			
	a)		:	
	b)	Material	:	
		Material Dimensions (mm)	:	
	b) c)	Material Dimensions (mm) - Length & Thickness	:	
	b)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside	:	
	b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm)	: : : : : : : : : : : : : : : : : : : :	
	b) c)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside	:	
2.3.6	b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog	: : : : : : : : : : : : : : : : : : : :	
2.3.6	b) c) d) e)  Bra	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog	: : : : : : : : : : : : : : : : : : : :	
2.3.6	b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces	: : : : : : : : : : : : : : : : : : : :	
2.3.6	b) c) d) e) <b>Bra</b> a)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces Material & size (mm)	: : : : : : : : : : : : : : : : : : : :	
2.3.6	b) c) d) e) <b>Bra</b> a) b)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  Ices: No. of braces Material & size (mm) Dimensions (mm)	:	
2.3.6	b) c) d) e) <b>Bra</b> a) b)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces Material & size (mm)	: : : : : : : : : : : : : : : : : : : :	
2.3.6	b) c) d) e) Bra a) b) c)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces Material & size (mm) Dimensions (mm) - Projected length	:	
2.3.6	b) c) d) e) Bra a) b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm)	: : : : : : : : : : : : : : : : : : : :	
2.3.6	b) c) d) e) Bra a) b) c)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace	:	
	b) c) d) e) Bra a) b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing	: : : : : : : : : : : : : : : : : : : :	
2.3.6	b) c) d) e) Bra a) b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  ICES: No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing	: : : : : : : : : : : : : : : : : : : :	
	b) c) d) e) Bra a) b) c) d) e) Fro a)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing  nces:		
	b) c) d) e) Bra a) b) c) d) e) Fro a) b)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing  g: Numbers Material		
	b) c) d) e) Bra a) b) c) d) e) Fro a) b) c)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  nces: No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing  g: Numbers Material Dimensions (mm)		
	b) c) d) e) Bra a) b) c) d) e) Fro a) b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing  g: Numbers Material Dimensions (mm) No. & size of holes on frog (mm)		
	b) c) d) e) Bra a) b) c) d) e) Fro a) b) c) d) i	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  ICES: No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing  G: Numbers Material Dimensions (mm) No. & size of holes on frog (mm) -for mould board		
	b) c) d) e) Bra a) b) c) d) e) Fro a) b) c) d)	Material Dimensions (mm) - Length & Thickness No & size of hole on landside (mm) Method of fixing landside to frog  No. of braces Material & size (mm) Dimensions (mm) - Projected length No. & size of hole on each brace (mm) Method of fixing  g: Numbers Material Dimensions (mm) No. & size of holes on frog (mm)		

	iv	-for landside	Ι.	
	-		•	
	V	-for shin	:	
2.4		ersing Mechanism:		
	a)	Type	:	
		, <u>1</u>		
2.4.1	Mai	Main Shaft:		
	a)	Constructional details	:	
2.4.2	Car			
	a)	Material	:	
	b)	Dimensions (mm)		
	i	-Total Length	:	
	ii	-Effective length	:	
	iii	-Width	:	
	iv	-Thickness	:	
	v	-Size of cam pin (mm)	:	
	vi	-Size of linch pin hole on cam	:	
		pin		
2.4.3	Hyd	Iraulic Cylinder:		
	a)	Туре	:	
	b)	Size of cylinder (mm)	:	
	c)	Size of high pressure pipe line	:	
		fitted on the cylinder (mm)		
	d)	Size of piston (mm)	:	
	e)	Size of connecting arm (mm)	:	
	f)	Stoke length (mm)	:	
2.4.4	Dist	ributor:	:	
	a)	Type	:	
	b)	Overall Size (mm)	:	
	c)	No. and size of hose pipes	:	
		between tractor and distributor		
		(mm)		
2.4.5	Rev	Reversing Mechanism Lock		
2.5		ch Pyramid:		
	a)	Constructional details	:	
	b)	Size of upper hitch (mm)	:	
	c)	Size of Cross bar (mm)		
	( ·	Size of Cross out (IIIII)		

## Specification of Hitch Pyramid As per IS: 4468-1997 (Part-I)

Sr.	Dimension	Description	Measurement		
	(Refer Fig.1)				
Upp	er Hitch attachme	ents			
1	$d_1$	Diameter of hitch pin hole			
2	bøı	Width between inner faces of yoke			
3	bø <sub>2</sub>	Width between outer faces of yoke			
Low	er hitch points				
4	$\mathrm{D}_2$	Dia. of hitch pin			
5	bø <sub>3</sub>	Linch pin hole distance			
6	1	Lower hitch point span			
Othe	Other dimensions				
Diameter of linch pin hole					
7	d	For upper hitch pin			
8		For lower hitch pin			

9	h	Mast height	



**Implement Hitch Attachment** 

		in stement in		1 ttuchinent			
3.0	Ov	Overall dimensions (mm):					
	a)	Length	:				
	b)	Width	:				
	c)	Height	:				
4.0	Tot	Total mass (kg)					
5.0	Col	or of implement	:				

Place: Date:		
	Signature:	
	Name :	
	Designation:	