



भारत सरकार / GOVERNMENT OF INDIA
उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
Northern Region Farm Machinery Training and Testing Institute
ट्रैक्टर नगर, सिरसा रोड, हिसार)हरियाणा—(125001 TRACTOR NAGAR, SIRSA ROAD, HISAR (HARYANA)- 125
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Website: <http://nrfmtti.gov.in> E-mail: fmti-nr@nic.in GSTIN: 06AAAGN0273PIZ3 Tele./FAX: 01662-276984

TECHNICAL SPECIFICATIONS FOR RIGID CULTIVATOR/ SPRING LOADED CULTIVATOR

1.	General:		
	Name of the machine	:	
	Type of machine	:	
	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	:	
3.	Constructional details:		
3.1	Main frame	:	
	Material & size, mm	:	
	Dimension of frame (L xW), mm	:	
3.2	Tine	:	
	Number	:	
	Type	:	
	Arrangement on main frame	:	
	Material & size, mm	:	
	No., type and size of bolts for tightening tine to main frame, mm	:	
	Method of fixing	:	
	Provision for adjusting the spacing between the tines, mm	:	

Name of the Manufacturer/ Applicant	Document No, if any Revision status	Name of the Test Agency: NRFMTTI,Hisar
Signature :	Make :	Signature :
Name :	Model :	Name :
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3.3	Shovel	:		
	No. of shovels	:		
	Type	:		
	Material	:		
	Number & size of holes on each Shovel for fixing the tine, mm	:		
	Hole spacing, mm	:		
	Method of fixing	:		
3.4	Hitch	:		
	Type	:		
	Material	:		
	Size, mm:			
		-Front	:	
		-Rear	:	
	Shape	:		

3.4.1 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		

4 Material of construction:-

Sr. No.	Name of component	Material as per IS 6638: 1972	Material as used
1.	Frame	Mild steel	
2.	Tine	Carbon steel	
3.	Helical spring	Spring steel	
4.	Hitch	Mild steel	
5.	Hitch pin	Carbon steel	

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5	Overall dimensions (mm)		
	Length	:	
	Width	:	
	Height	:	
6	Mass (kg)	:	
7	Colour	:	
8	Labeling plate:		

Date:

Place:

Signature:

Name of signatory:

Designation:

Name & address of firm:

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