



कृषि, सहकारिता एवं किसान कल्याण विभाग

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FARM MACHINERY TRAINING & TESTING INSTITUTE (NER)

बिश्वनाथ चारिआलि, बिश्वनाथ - असम

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SPECIFICATION SHEET OF LASER LEVELER

1. **SPECIFICATION**

1.1 General

Name of manufacturer/applicant &

Address

Name of Implement

Type Make

Model

Year of manufacture Chassis no./Identification no.

Tractor horse power recommended,

hp(apa)

Type of blade

Working width of implement, mm

Country of origin

Max. deflection/ accuracy per 30 m of length for laser unit, mm (apa)

1.2 **Prime Mover Used**

Tractor

Chassis No. / Engine No.

Year of manufacture

Max pto power, kW(Ps) Engine speed recommended for field

test, rpm (apa)

1.3	Chassis Type	
	Size of circular beam at front ,mm Length	::
	Dia. Size of square channel, mm	:
	Type of mounting of box section	:
1.3.1	Side Support plate Type	:
	Thickness of plate, mm Method of fixing	:
1.3.2	Blade	
	Type & Material	:
	Method of fixing	•
	Dimensions, mm (Refer fig: 2)	
	A B	
	C D	:
	Length of bevel, mm	:
	Thickness of blade at tip	:
	Provision for bevel	:
	Provision for adjusting till angle	:
	Provision for raising Mould board & transport mechanism	:
	Safety provision against the sinkages of blade	:
1.3.3	Soil carrying Mould Board	
	Type Thickness of plate, mm	:
	Size of plate, mm	
	Length	:
	Peripheral width Height from ground	
	Method of mounting	:
1.4	Toeing Mechanism	
1.4.1	Type & material Toe Beam	:
1,7,1	Type	:
	Size, mm	:
	Method of fixing	:

	Specification of Toe Hook (Ref. fig 3)		
	Outer/inner dia. of front circular hole for hitch pin attachment, mm Straight portion of hook outside of curvo beam, mm	:	
	Straight portion of hook inside of curvo beam, mm	:	
	Nos. of spacer inside of curvo beam Size of spacer, mm	:	
	ID/OD Length	:	
	Length & dia. of threaded portion, mm	:	
	Nos. of thread Pitch, mm	:	
1.4.2	Curvo Beam Peripheral length, mm	:	
	Size at front, mm	:	
	Size at rear, mm	:	
	Method of fixing	:	
	Size of M.S. tube, mm	_	
	Dia. Length		
	Sector plate size, mm	:	
	Thickness		
	No. of holes	:	
	Size of hole dia.	:	
1.5	Receiver Mounting Unit		
1.5.1			
	Type & Material	:	
	Size, mm		
	Length Dia.	:	
	Adjustable length of shaft, mm		
	Method of height adjustment &		
	depth control	·	
	Provision for receiver height	:	
	adjustment		
	N. C. d. 1:		
	No. of teeth on drive gear		
	No. of teeth on bevel gear Chain details	•	
	No. of links	:	
	Roller dia.	:	
	Pitch	:	
1.5.2	MAST		
	Type	:	
	Size of duct, mm		
	Length	:	

	Size at bottom	:
1.6	Size at upper Transport Mechanism	٠
1.0	Type	
	Specification of cross support beam,	:
	mm	
	Method of fixing of channel axle	:
1.6.1	Wheel axle shaft	
	Type	:
	Size of hollow square pipe, mm	
	Length	:
	Side	:
	Size of solid shaft, mm	
	Length	
	Inner side	
	Outer side	:
	Size of threaded portion, mm	
	Length	:
	Dia.	:
	Size of shaft flange, mm	
	Thickness	:
	Dia.	:
1.6.2	Method of fixing	•
1.0.2	Transport wheel Type	
	Make & size	
	Nos.	:
	Method of arrangement	
1.7	_	•
1.7.1		
	Make	
	Model	
	Power	
1.7.2	Transmitter	
	Make	:
	Model	:
	Power	:
	S. No./Identification No.	:
1.7.3	Receiver	
	Make	:
	Model	:
	Power	:
	S. No. /Identification No.	:
1.7.4	Hydraulic Directional valve unit	
	Malro	
	Make	:
	Model May energting pressure lrg/am^2	:
	Max operating pressure, kg/cm ²	
	Max operating pressure recommended for field test, kg/cm ²	
	Pressure tractor hydraulic pump	
	during stationery condition of Laser	•
	adding stationer, condition of Easer	

	leveler, Kg/cm ²		
	Pressure of tractor hydraulic pump during field working, kg/c m ²	:	
	during field working, kg/c m ²		
	S. No. /Identification No.	:	
1.7.5	Distributor limit switch		
	Make	:	
	Cat. No.	:	
	Location	:	
	Method of operation	:	
1.7.6	Battery		
	Type		
	Type Make		
	Model		
1.8	Input charging	•	
1.0	Overall Dimensions, mm (Ref. Fig.1)		
	Length		
	Width		
	Height	•	
1.8.1	Mass, kg	•	
1.9	Accessories	•	
1.9.1	Tripod for Laser Emitter unit		
1.9.2	Connection wires		
		•	
	Hydraulic pipe with adopters	:	
1.9.4	AC-DC Charging adaptor		
	Number	:	
	Input	:	
	Output	:	
	S. No.	:	
Place:			
Date:			
			Signature:
			Signatur t
			Name:
			Designation: