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Government of India
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Ministry of Agriculture and Farmers Welfare
कृषि, सहकारिता एवं किसान कल्याण विभाग
Department of Agriculture, Cooperation and Farmers Welfare
उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान,
FARM MACHINERY TRAINING & TESTING INSTITUTE (NER)
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SPECIFICATIONS

1.1 General

Name & address of manufacturer / applicant	:	
Name of Machine	:	
Type	:	
Make	:	
Model	:	
Year of manufacture	:	
Serial number	:	
Size	:	
Power source as recommended	:	
Power source as used	:	

1.2 Costruction details

1.2.1 Chassis/Main frame

1.2.2 Central Support Frame :

Material	:	
Size, mm	:	
Dimenstions, mm	:	

1.2.3 Gear box mounting frames :

Material	:	
Dimensions	:	

1.2.3.1 Gear box : :

Type	:	
Mode of power transmission	:	
Material	:	Graded C.I.
Type of lubricant recommended	:	
Type of lubricant used	:	
Capacity :	:	

-As specified

-As observed

No. of teeth on pinion :
No. of teeth on bevel gear :
Reduction ratio :
Length & dia. of pinion shaft, mm :
Length & dia of pevel shaft, mm :
Nos. & type of bearing on pinion shaft :
Nos. & type of bearings on bevel shaft :
Nos. of seals on pinion shaft :
Nos. of seals on bevel shaft :

1.2.4 Augur

Number :
Size, mm :
Type :
Material :
Size, mm :
Method of fixing :

1.2.4.1 Cutting blades

Numbers
Size :
Material :
Overall thickness, mm :
Thickness at beveled edge, mm :
Width of beveled edge, mm :
No. & size of holes for fixing, mm :

1.2.4.2 Pointers :

Numbers :
Type :
Material :
Dimensions, mm :
Method of fixing :

1.2.5 Augur alignment shaft :

Material :
Size, mm :
No. of springs on the shaft :
No. of coils on each spring :
Size of spring, mm :
Method of fixing :

1.2.6 PTO shaft of implement (Splined end of pinion shaft) (Refer fig. 4) :

Specifications	As per IS:4931-Oct. 2004	As observed	Remarks
Nominal speed (rpm)	540±10		
No. of splines	6		
Direction of rotation	Clockwise		
Dimensions (mm) :-			
D Φ	34.79± 0.06		
D Φ	28.91 +0.05 28.91-0.15		
B Φ	29.4 ±0.1		
A Φ	8.3(Optional)		
W	8.69-(0.09 to 0.16)		
A	7		
B	25 ± 0.5		
C	38		
X	30°		
B	76 (min.)		
H	450 to 675		

1.2.7 Propeller shaft

Type
Length of shaft, mm :
-Minimum
-Maximum
Mass of shaft, Kg. :
Locking provision :

Safety provision :

1.2.8 Propeller shaft insert dimension (Refer fig. 4)

Notation	As per IS:4931-Oct. 2004 (mm)	As observed (mm)	Remarks
D ǿ	34.93 ± 0.03		
d ǿ	29.7 ± 0.1		
W	8.69		
B	54 (min.)		

1.2.9 Hitch Pyramid

Type :
Material :
Size, mm :
Constructional details :

Specification of Hitch Pyramid				
Sl.No.		As per IS:4468-march 2007 (mm)	As measured (mm)	Remarks

I	**Upper hitch point (cat-II/cat-I)**			
a)	Diameter of hitch pin hole	19.30 to 19.51/ 25.70 to 25.91		
b)	Width of ball	44.0 (Min) 51.0 (Max.)		
II	**Lower hitch points (cat.-II /cat.-I)**			
d_2	Dia of hitch pin hole	28.7±0.3/ 21.8-22.0		
b_1	Width between inner face of yoke	52/44.5 (Min.)		
b_2	Width between outer face of yoke	86/69 (Max.)		
D_2	Dia of hitch pin	27.8 to 28.0/ 21.8 to 22.0		
b_3	Linch pin hole distance	49/39 (Min.)		
d	Dia. of linch pin hole	12.0 (Min.)		
III	**Mast height**	610±1.5 / 460±1.5		
IV	**Lower hitch point span**	825±1.5/ 683±1.5		

1.3 Overall Dimensions (mm) :

Length :
Width :
Height :

1.4 Operational Mass, Kg. :
1.5 Colour :

Place:

Date:

Signature:……

Name:……

Designation:……