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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,
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SPECIFICATIONS :

1.1.1 GENERAL

Name and address of manufacturer :

Name of the machine :

Type :

Make :

Serial No. :

Model :

Year of manufacture :

1.1.2 Brief specification of prime mover used :

Type :

Make & Model :

Chassis No. :

Engine No. :

Maximum PTO power Kw(ps) :

Engine speed for field operation :
recommended by applicant (rpm) :

1.2 BLADE :

Type :

Number :

Width (mm) :

- Inclination (°) :
- Clearance from ground (mm)
- Minimum :
- Maximum :
- Clearance from transmission shaft casing :
- Thickness (mm) :
- Distance from center to centre of blades (mm) :
- 1.3 MAIN FRAME :**
- Type :
- Size (mm) :
- M.S. box :
- Angle section (mm) :
- Flat :
- 1.4 ELEVATOR CHAIN CONVEYOR :**
- Length (mm) :
- Width(mm) :
- Pitch(mm) :
- Chain rod diameter (mm) :
- Number of rods :
- Flat belt width joining the rod (mm) :
- Slope(°) (fixed)
- Front side :
- Rear side :
- 1.5 DISC :**
- Diameter (mm) :
- Thickness (mm) :
- Number :
- Spacing (mm) :
- Hub diameter (mm) :
- 1.6 TRANSMISSION :**
- Rear pulley diameter (mm) :

Front pulley diameter(mm) :
 V-belt size, number :
 Gear box reduction ratio :
 V-belt tightener, width (mm) :
 Diameter of casing of output shaft (mm) :
 Diameter of rear drive shaft (mm) :
 Diameter of idler shaft (mm) :
 Diameter of agitator shaft (mm) :
 Diameter of idler roller shaft (mm) :
 Diameter of front idler (mm) :
 Driving sprocket teeth (Nos.) :

1.7 SAFETY FEATURES :

P T O guard :
 V-belt guard :

1.8 HITCH :

Type :
 Shape :
 Material of construction :
 Size of flat :

1.9	Three point linkage (Refer fig.1)			
Sl.No.		As per IS:4468-2001 (mm)	As measured (mm)	Remarks
I	Upper hitch point (cat-II)			
a)	Diameter of hitch pin (A)	25.27 to 25.40		
b)	Diameter of hitch pin hole (B)	25.70 to 25.91		
c)	Linch pin hole distance (D)	93 (min.)		
d)	Width between outer faces of yoke (E)	86 (max.)		
c)	Width between inner faces of yoke (F).	52-0 (min)		
II	Lower hitch points (cat.-II)			
a)	Dia of hitch pin	27.79 to 28.0		

b)	Diameter of hitch pin hole (H)	28.70 to 29.03		
c)	Linch pin hole distance (K)	49 (Min.)		
III	Diameter of linch pin hole for (Cat.II)			
a)	Upper hitch pin (L)	12 (min)		
b)	Lower hitch pin (L)	12(min.)		
IV	Mast height (M)	510 (min.)		
V	Lower hitch point span (N)	823.5 to 826.5		

1.10 Dimensions of splined end of pinion shaft (Ref. Fig. 2) :

Notation	As per IS:4931-2004 (mm)	As observed (mm)	Remarks
A	54.0(min)		
B	76.0(min.)		
D ϕ	34.79 ± 0.06		
d ϕ	28.91 ± 0.05		
G	7.0		
H	38.0		
I	25.0 ± 0.5		
J	$\phi 8.3$		
R	6.7 ± 0.25		
S	8.69		
α	30°		

1.11	Propeller shaft		
	Type	:	Telescopic
	Length of shaft (mm)	:	
	-- Minimum	:	
	-- Maximum	:	
	Mass of shaft (kg)	:	
	Provision for locking	:	

1.11.1 Propeller shaft hub dimensions (Ref. Fig.3) :

Notation	As per IS : 4931-2004 (mm)	As observed (mm)	Remarks
D ϕ	34-93 \pm 0.03		
D ϕ	29.7 \pm 0.1		
W	8.69 (min)		
A	54 (Min)		

1.12 VISUAL OBSERVATIONS AND PROVISION FOR ADJUSTMENTS :
(Clause 6.1.1 (c), 6.2 (a) and 8.3 of IS : 13818-1999)

Adequacy of protection of bearings against the ingress of dust	:
Adequacy of safety arrangements, especially at moving points	:
Provision for lubrication of moving parts	:
Provision for belt tightening	:
Provision for transportation	:
Provision for easy changing of components requiring frequent replacement	:
Provision for anti-corrosive coatings	:
Tightness of bolts and nuts and other fasteners	:
Depth of cut	:
Blade inclination	:
Blade clearance from ground	:
Distance from centre to centre of blades	:
Conveyor belt	:

1.13 Material of Construction :

S. No.	Component		Material
1.	Frame	:	
2.	Elevator Chain	:	
3.	Blade	:	
4.	Disc	:	

5.	Main shaft	:	
6.	Idler shaft	:	
7.	Agitator shaft	:	
8.	Sprocket	:	
9.	Pulley	:	

1.14 OVERALL DIMENSIONS (mm):

Length :

Width :

Height :

Mass (Kg) :

Place:

Date:

Signature:.....

Name:.....

Designation:.....