

## 4. SPECIFICATION

### 4.1 General

Name of manufacturer/applicant & Address :

Name of Implement :

Type :

Make :

Model :

Year of manufacture :

Serial No. :

Tractor horse power required, hp(apa) :

Type of blade :

Working width of implement, mm :

### 4.2 Prime Mover Used :

Tractor :

Chassis No. / Engine No. :

Year of manufacture :

Max PTO power kW(Ps) :

Rated engine speed recommended for field test, rpm (apa) :

### 4.3 Chassis :

Type :

Size of box, mm :

Size of supporting plate, mm :

Type of mounting of box section :

### 4.3.1 Side Support :

Type :

Thickness of plate, mm :

Method of fixing :

Size of bolt , mm :

### 4.3.2 Shield (Top Cover) :

Type :

Size, mm

Length :

Peripheral width :

Thickness of sheet, mm :

Method of mounting :

### 4.4 Trailing Board

Type & material :

Size of board, mm :

Thickness of sheet, mm :

Locking system :

	Method of mounting plate sector	:
	Type of hinge	:
	No. of hinges	:
	Method of fixing	:
<b>4.5</b>	<b>Rotor Shaft</b>	
	Material	:
	Type of rotor axle	:
	Size of shaft, mm	:
		Length :
		Dia :
	No. of flanges	:
	Type of flange	:
	Dia of flange, mm	:
	Thickness of flange, mm	:
	No. of blades on each flange	:
	Method of mounting blades on flanges	:
	Size of bolt, mm	:
	Distance between two flanges, mm	:
	Dia of rotor with blades, mm	:
	Method of fixing	:
<b>4.5.1</b>	<b>Rotor Blade :</b>	
	Number	:
	Type	:
	Material	:
	Overall thickness, mm	:
	Thickness at the beveled edge, mm	:
	Width of the beveled edge, mm	:
	Speed of rotor shaft corresponding to 540rpm of PTO shaft, rpm	:
	Peripheral speed of rotor blades , m/sec.	:
<b>4.6</b>	<b>Depth control mechanism</b>	:
<b>4.6.1</b>	<b>Skid</b>	
	Type & Material	:
	Size, mm	:
		Peripheral Length :
		Width :
		Thickness :
	No. of skids	:
	Method of fixing	:
<b>4.6.2</b>	<b>Adjusting Rack</b>	:
	Type	:

Size of slot, mm

Length :  
Width :  
Thickness :

Range of depth adjustment, mm :

Method of fixing :

:

<b>4.7</b>	<b>Three point linkage ( Refer fig.1) As per IS:4468-2001,</b>	
Sl.No.		As measured , mm
<b>I</b>	<b>Upper hitch point ( cat-II)</b>	
a)	Diameter of hitch pin (A)	
b)	Diameter of hitch pin hole (B)	
c)	Linch pin hole distance (D)	
d)	Width between outer faces of yoke (E)	
c)	Width between inner faces of yoke (F).	
<b>II</b>	<b>Lower hitch points ( cat.-II)</b>	
a)	Dia of hitch pin	
b)	Diameter of hitch pin hole (H)	
c)	Linch pin hole distance (K)	
<b>III</b>	<b>Diameter of linch pin hole for (Cat.II)</b>	
a)	Upper hitch pin (L)	
b)	Lower hitch pin (L)	
<b>IV</b>	<b>Mast height (Cat. II) (M)</b>	
<b>V</b>	<b>Lower hitch point span (Cat.2) (N)</b>	823.5 to 826.5

#### 4.7 Mast

Type :  
Size of flat , mm :  
Thickness of sheet, mm :  
Shape :

#### 4.8 Power transmission system :

Method of transmission : Propeller shaft receives drive from PTO and transmits power to rotary shaft through two reduction units, primary and secondary, consisting of gear reduction unit and double chain and sprocket

reduction unit respectively.

<b>4.8.1</b>	
Notation	As observed, mm
A	
B	
D $\phi$	
d $\phi$	
G	
H	
I	
J	
R	
S	
$\alpha$	

#### 4.8.2

Type  
 No. of teeth on pinion  
 No. of teeth on bevel gear  
 Reduction ratio  
 Oil capacity, l  
 Oil change period, h (apa)  
 Recommended grade of oil, apa  
 Size of power transmission shaft from  
 gear box to secondary reduction unit,  
 mm

Length  
 Dia

Provision of breather & dipstick  
 No. of bearings,

Pinion end  
 Main shaft end

#### 4.8.3

Type  
 No. of teeth on drive sprocket  
 No. of teeth on driven sprocket

Reduction ratio  
 Oil capacity, l  
 Recommended grade of oil, apa  
 Oil change period, h (apa)  
 Provision for oil level checking  
 Provision for breather  
 No. of bearing

Length  
Dia of roller  
Pitch  
No. of Link

Type	Length of shaft, mm
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
20	100
21	100
22	100
23	100
24	100
25	100
26	100
27	100
28	100
29	100
30	100
31	100
32	100
33	100
34	100
35	100
36	100
37	100
38	100
39	100
40	100
41	100
42	100
43	100
44	100
45	100
46	100
47	100
48	100
49	100
50	100
51	100
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53	100
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57	100
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69	100
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72	100
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75	100
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78	100
79	100
80	100
81	100
82	100
83	100
84	100
85	100
86	100
87	100
88	100
89	100
90	100
91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

Mass of shaft, kg  
Provision for locking

Notation	As per IS:4931-2004, mm
D $\phi$	
d $\phi$	
W	
B	

**4.11** [REDACTED]

**4.11.1** Mass, kg

Mass, kg