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भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय,

Ministry of Agriculture and Farmers Welfare

(कृषि, सहकारिता एवं किसान कल्याण विभाग)

(Department of Agriculture, Cooperation and Farmers Welfare)

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Southern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, गार्लिदिन्ने - 515 731, जिला: अनंतपुर (आं. प्र.)

Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)

[ISO 9001:2008 COMPLIANT INSTITUTION]

		1. SPECIFICATIONS	
1.1	General Manufacturer	;	
	Name of applicant	:	
	Name of machine	:	
	Make	:	
	Model	:	
	Туре	:	
	Serial number	:	
	Year of manufacture	Dogument No. if any Pavision status	N. Cal. Thurs
ma of	r the Manutacturer/Applicant	L Llocument No. it any Payicion etatue	I Name of the Test Agency:

Name of the Manufacturer/Applicant	Document No, if any Revision status	Name of the Test Agency:
		SRFMTTI, Garladinne
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1.3.3 Reaper mounting frame

Constructional details :

Dimensions of frame (mm) :

Mass of the frame (kg) :

1.3.4 Balancing weights

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SPECIFICATIONS OF POWER TILLER MOUNTED REAPER

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	Method of operation	:	
1.4.3	Reaping bevel box		
	Туре	:	
	No. of gears	:	
	Reduction ratio	:	
	Mode of power transmission	:	
	Type of lubricant	:	
	Method of lubrication	:	
	Lubrication period	:	
1.5	Reaper frame		
	Constructional details	:	
1.6	Cutter bar assembly		
	Working width (mm)	:	
	Effective width (mm)	:	
	No. & spacing of knife guards (mm)	:	
	No. & type of knife blades	:	
	Knife stroke (mm)	:	
	Strokes per min	:	
	Knife speed corresponding to no load	:	

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engine spe	ed during	field test	(m/s)
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Details of knife drive :

Minimum height of cutter bar from

G.L. (mm)

Method of adjustment :

Transporting height of cutter bar from

G.L. (mm)

1.6.1 Crop divider

Type :

Number :

Distance between two adjustment

shoes (mm)

- Min.

- Max. :

Height of shoe from GL (mm) :

Details of shoe:

Constructional details :

- Length (mm) :

- Width at rear (mm) :

- Width at front (mm) :

1.6.2 Crop guide (star) wheel

No. of wheels :

Material :

No. of projections on each wheel :

Dia. of wheel (mm) :

No & type of bearing if any :

Method of mounting & its drive :

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1.6.3 Divider guide

1.6.4 **Guard**

Type :

Total number of guards :

Total number of guards :

	Specification of guard as per IS: 6024 -1983					
s.	Designation	Dimension as	Tolerances	As observed	Conformity to IS	
No.		per IS (mm)	(mm)	(mm)		
1	Α	152.4	<u>+</u> 0.8			
2	В	76.2	<u>+</u> 0.2			
3	С					
4	D	11.0	<u>+</u> 1.8			

1.6.5 Knife :

Make :

Total numbers :

	Specification of knife section as per IS: 6025-1982					
S. No.	Designation	Dimension as per IS (mm)	Tolerances (mm)	As observed (mm)	Conformity to IS	
1	Α	76.2	2 to – 0.4			
2	В	50.8;51.5;52.5	<u>+</u> 0.1			
3	С	11.8;12.7	<u>+</u> 0.1			
4	D	5.5	<u>+</u> 1.2			
5	E	9.5 min.	-			
6	F	9.0 min.	-			
7	G	0.8 min.	-			
8	Н	11.0	<u>+</u> 0.5			
9	J	12.5 min.	-			
10	K	30.6;31.8	<u>+</u> 0.25			
11	L	65.0	<u>+</u> 0.5			
12	Т	2.0 min	-			
13	α	19°	<u>+</u> 1°			

1.6.6 Knife back :

Material :

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Signature :	Make :	Signature :	
Name :	Model :	Name :	
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Length (mm) :

	Specification of knife back as per IS: 10378-1982					
S.	Designation	Dimension as per IS	Tolerances	As observed	Conformity to IS	
No.		(mm)	(mm)	(mm)		
1	Α	20 min	-			
2	В	4.5 min	-			
3	С	50.8;51.5;52.5	<u>+</u> 0.1			
4	D	12.0 min.	-			
5	E	25.4	<u>+</u> 0.1			
6	F	5.5	<u>+</u> 0.2			
7	α	75° or 90°	<u>+</u> 1°			

167	Knife clips	
T.U./	Killie Clips	

Material :

Size (mm) :

No. of clips :

No. type & size of bolts for fixing knife

clips (mm)

Spacing of knife clips (mm) :

Provision for adjusting the clearance

between clip and cutter bar

Method of fixing

1.6.8 Ledger plate Assembly

Constructional details

Size of ledger plate assembly (mm) : Size and spacing of holes (mm) :

16.9 Knife Head

Number

Material & size (mm) :

Height of head from cutter bar (mm) :

Size of slot for the movement of knife

head (mm)

Method of fixing :

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Constructional details :

1.6.10.1 Pitman shaft :

Effective length (mm) :

Method of lubrication :

Lubrication period :

1.6.10.2 Crank pin

Effective length of crank (mm) :

Diameter of crank pin (mm) :

1.7 Crop Conveyor

Number of conveyors :

Type :

Material :

Mode of power transmission from

bevel box to conveyor pulleys

Number of links & length of drive

chain (mm)

Roller dia. & pitch of chain :

Speed of Drive/ Driven sprocket (rpm) : Number of teeth on Drive/ Driven :

sprockets

Speed reduction ratio :

Speed of conveyor corresponding to no load engine speed for field test

(m/s)

Provision for tensioning :

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Method of drive :

Drive safety arrangement : Not provided

	Details of Conveyor Belts			
S. No.	Parameters	Lower	Middle	Upper
1	2	3	4	5
1	No. of belts			
2	Length of belts (mm)			
3	Width of belts (mm)			
4	Thickness of belts			
5	No. of lugs on belts			
6	Size of lug (Length x width) (mm)			
7	Lug distance(horizontal)			
8	Vertical distance between Conveyors (mm)			
9	Thickness of lug			
10	No. & type of pulleys on each Conveyor belt			
11	Dia. & width of pulley			

Note: The upper most belt is provided for wheat and other crops and not for paddy.

1.8	Tail wheel assembly	:
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Constructional details :

Number of wheels :

Type :

Size (mm) :

Make :

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1.11	Overall dir	mensions (mm)		
Parameters		Reaper Mounted on power Tiller		Reaper unit
Length				
Width				
Height				
Mass (kg)				

1.12 Ground clearance (mm)

1.13 Colour of reaper unit :

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