c	D	С			~	۸т	-10	7	ıc	$\sim$		PC	١,,	١/١		, T	ГП	1		) (	١ /	$\sim$		N	т	СГ	`	DI	_ ^	D		)
S	М	С.	u	ΙГΙ	U/	41	ı	יוע	v.	U	г	ru	v	V١	ᄄ	١.	IIL	ᇿ	ΕГ	١ı	VI	U	U	אוי		ЕL	,	ΠI	-	۱P	ᄗ	٦

## 1. SPECIFICATIONS

1.1	General		
	Manufacturer	:	
	Name of applicant	:	
	Name of machine	:	
	Make	:	
	Model	:	
	Туре	:	
	Serial number	:	
	Serial Humber	•	
	Year of manufacture	:	
	Size of Reaper (mm)	:	
	Type of crops recommended	:	
1.2	Details of prime- mover	:	Please attach a copy of test report of power tiller
1.2	(As recommended & used)	•	rease account a copy or test report of power tiller

SPECIFICATIONS OF POWER TILLER MOUNTED REAPER	Page <b>2</b> of <b>11</b>

1.3	Essential accessories required along	:	
	with standard fitment of prime		
	mover		
1.3.1	Engine mounting frame	:	
	Constructional details	:	
	Dimensions of frame (mm)	:	
1.3.2	Mode of power transmission from engine to power tiller clutch	:	
1.3.3	Reaper mounting frame		
	Constructional details	:	
	Dimensions of frame (mm)	:	
	Mass of the frame (kg)	:	
1.3.4	Balancing weights		
	Numbers	:	
	Material	:	
	Size (mm)	:	
	Total mass (kg)	:	
	Location	:	

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		1	
1.4	Reaper Transmission	:	
	(Refer Fig.2)	-	
1.4.1	Intermediate gear box		
	Constructional details	:	
	Reduction ratio	:	
	Reduction ratio	•	
	Method of lubrication	:	
	Wethod of labilitation	•	
	Mode of power transfer from	:	
	intermediate gear box to the	•	
	reaping unit		
	Reduction ratio	:	
	Treadelien ratio	•	
	Arrangement for belt tensioning	:	
	, arangement for selecterisioning	•	
1.4.2	Reaper cut-off mechanism	:	
		-	
	Location	:	
		-	
	Туре	:	
	,,		
	Mode of power transmission	:	
	·		
	Method of operation	:	
	·		
		L	

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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 engine speed during field test (m/s)	:	
	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)	•	
	inom G.E. (iiiii)		
1.6.1	Crop divider		
	Туре	:	
	Number	:	
	Distance between two adjustment		
	shoes (mm) - Min.		
	- Max.	:	
	Height of shoe from GL (mm)	:	
	Tielght of shoe from GE (min)	•	
	Details of shoe :		
	Constructional details	:	
	Constructional actums	-	
	- Length (mm)	:	
	- Width at rear (mm)	:	
	- Width at front (mm)	:	
1.6.2	Crop guide (star) wheel		
	No. of wheels	:	
	Material	:	
	No. of contractions and the second		
	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		
	Туре	:	
	Total number of guards	:	
	Total number of guards	:	

	Specification of guard as per IS: 6024 -1983 (Reaffirmed in Dec/ i999)											
S.	Designa	Dimension as per	Tolerances	As observed	Conformity to IS							
No.	tion	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 (Reaffirm Dec 1999)									
S. No.	. Designatio Dimension as per IS		Tolerances	As observed	Conformity to IS					
	n	(mm)	(mm)	(mm)						
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	Е	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	К	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°							

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1.6.6	Knife back	:	
	Material	:	
	Length (mm)	:	

	Specification of knife back as per IS: 10378-1982 (Reaffirmed in Jan. 2001) Refer fig.3C)									
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°							

		1	
1.6.7	Knife clips	:	
	Material	:	
	Size (mm)		
	Size (IIIII)		
	A1 C 1:		
	No. of clips	:	
	No. type & size of bolts for fixing knife	:	
	clips (mm)		
	Spacing of knife clips (mm)	:	
	Provision for adjusting the clearance	1:	
	between clip and cutter bar	'	
		<del> </del>	
	Method of fixing	:	
1.00			
1.6.8	Ledger plate Assembly		
	Constructional details	:	
	Size of ledger plate assembly (mm)	:	
	Size and spacing of holes (mm)	:	
	, , , , , , , , , , , , , , , , , , , ,		
16.9	Knife Head	1	
	Number	•	
		.	
	Material & size (mm)	1:	
	()	-	
	Height of head from cutter bar (mm)		
	Ticignt of head from cutter bar (IIIIII)	٠.	

	SPECIFICATIONS OF POWER TILLER MOUNTED REAPER						
	ze of slot for the movement of knife ead (mm)	:					
	lethod of fixing	:					
	3 3 3 3 3						
1.6.10	Pitman						
	Constructional details	:					
1.6.10.1	Pitman shaft	:					
1.0.10.1	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	:					
	Туре	:					
	Material						
	Mode of power transmission from bevel box to conveyor pulleys	:					
	bever 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	:					

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	Speed of conveyor corresponding to no load engine speed for field test (m/s)		:					
	Provision for tensioning		:					
	Method of drive		:					
	Drive safety arrangement			Not prov	rided			
	Details of Conveyor Belts		Τ					
S. No.	Parameters Parameters		Lo	wer	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 Conveyor (mm)	S						
9	Thickness of lug							
10	No. & type of pulleys on each Conveyor belt							
11	Dia. & width of pulley							
Note : The	e upper most belt is provided for whe	at a	and	other crop	os and not for pad	dy.		
1.8	Tail wheel assembly	:						
	Constructional details	:						
İ								

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J		-				

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	Number of wheels	:	
	Туре	:	
	Size (mm)	:	
	Make	:	
	Tyre number	:	
4.9	Operator's seat		
	Туре	:	
	Provision for height adjustment	:	
	Range of height adjustment from GL (mm)		
	- Transporting condition	:	
	- Operating condition	:	
	Method of fixing	:	
1.10	Foot rest		
	Constructional details		
	Size (mm)		
	- Length	:	
	- Width	:	
	Height of foot rest from GL (mm)		
I	1	i	1

1.11	Overall di	mensions (mm)					
Paramet	ters	Reaper Mounted on	pow	er Tiller	Reaper unit		
Length						,	
Width							
Height							
Mass (kg	3)						
					·		
1.12	Ground clea	rance (mm)	:				
1.13	Colour of rea	aper unit	:				

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