

SPECIFICATION OF STRAW REAPER

- 1.1 General**
Name & address of manufacturer :
- Make :
Model :
Type :
Working width , mm :
- 1.2 Brief specifications of prime mover / Tractor**
Type :
Max. PTO power, kW :
No load PTO speed for field operation :
recommended by applicant, rpm :
- 1.3 Straw reaper- combine**
- 1.4 Towing hook**
Type :
Material :
- 1.5 Transport wheels**
Type :
Make :
No. and size :
Track width, mm :
Recommended tyre pressure, kgf /cm² :
(kPa)
- 1.6 Drive shaft** :
(Attach power transmission drawing)
- 1.7 Power take off drive shaft**
Type :
No. of splines :
Length of shaft, mm
Closed :
Extended :
Mass of shaft, kg :
Provision against overload :
Provision of safety guard on shaft :
Provision for locking :
- 1.8 Power input shaft to gear box**
Type :
No. of splines :
Size of shaft, mm
Length :
Dia. :
- 1.9 Gear box**
Type :
Dia. of splines shaft, mm :
Number of splines :
Gear ratio, input shaft to output shaft :
Oil grade :

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- Oil capacity, :
- Oil change period :
- 1.10 Reel assembly**
- Type :
- No. of tine bars :
- Size of tine bar, mm
- Length :
- Diameter :
- Type of tine bars :
- Size of reel, mm
- Dia. :
- Working width ,mm :
- No. of tines on each bar and their spacing, mm :
- Speed of reel corresponding to recommended no load PTO rpm of tractor, rpm :
- Safety device in reel drive :
- 1.11 Cutter bar assembly**
- Effective cutter bar width, mm :
- Knife stroke, mm :
- Type of knife guard :
- No. and spacing of knife guard, mm :
- No. and type of blades :
- Type of ledger plates :
- Details of the knife drive :
- Arrangement for lifting of lodged crop. :
- Knife frequency corresponding to recommended no load PTO field rpm, strokes per minute :
- 1.12 Feeding platform auger**
- Type :
- Size of auger, mm
- Dia. :
- Width :
- Safety device if any :
- Speed of auger corresponding to recommended no load PTO speedof tractor, rpm :
- Arrangement for adjusting the clearance of crop auger :
- 1.13 Details of scoop**
- No. of scoops :
- No. of scoops on each row :

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- Height, mm :
- Peripheral spacing of scoops, mm :
- 1.14 Feeder beater**
- Type :
- Size, mm :
- Width :
- No. of sections :
- Width of one section, mm :
- Speed corresponding to recommended no load PTO field rpm, rpm :
- Safety device :
- 1.15 Chopping cylinder**
- Type :
- Width, mm :
- Outside dia., mm :
- No. of bars :
- No. of blades and their spacing on each bar, mm :
- Shape of blade :
- Safety provision :
- Speed of chopping cylinder corresponding to recommended no load PTO field rpm, rpm :
- 1.16 Baffle plate**
- Type :
- Size of plate, mm :
- 1.17 Concave**
- Type of concave :
- Width of concave, mm :
- Concave length, mm :
- Range of clearance, mm
- Front :
- Rear :
- Method of adjusting the clearance between chopping drum and concave. :
- 1.18 Cleaning sieve**
- Type :
- Size of sieve, mm :
- Hole dia., mm :
- Number of holes per 100 cm² :
- Inclination towards the blower unit, degree :
- Straw deflector (provided/ not provided) :
- 1.19 Grain pan**

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- Type :
- Size of grain pan, mm
- Width :
- Length :
- Provision for discharging of grain :
- 1.20 Straw blower**
- No. of blowers :
- Dia., mm :
- Effective width, mm :
- Method of varying the blower speed :
- Speed corresponding to recommended no load PTO field rpm, rpm :
- Safety provision :
- 1.21 Straw outlet**
- Type :
- Outlet size, mm :
- Height of outlet from ground level, mm
- Minimum :
- Maximum :
- Length, mm :
- 1.22 Straw outlet extension** :
- 1.23 Safety device provided on the machine** :
- 1.24 Total number of lubricating points**
- Greasing ;
- Oiling ;
- 1.25 Length of straw reaper combine in transport position, mm** :
- 1.26 Height of hitch in working condition** :
- 1.27 Overall dimensions in working position, mm**
- a) Length (drawbar hitch point to trailer hitch point) :
- b) Width :
- c) Height (from ground level to top of straw outlet), mm :
- d) Overall length of machine with tractor trailer Combination, mm :
- 1.28 Mass, kg** :
- 1.29 Details of Information provided on labelling plate**

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2. VISUAL OBSERVATIONS AND PROVISION FOR ADJUSTMENTS

Sr. No.	Particulars	Details (Yes/No)
a)	Visual observation	
i)	Adequacy of marking on inlet and outlet	
ii)	Adequacy of marking of direction of rotations on chopping drum, blower unit, beater unit and reel unit	
iii)	Adequacy of protection of bearings against the ingress of dust	
iv)	Adequacy of safety covers especially at moving points	
v)	Provisions for lubrication of moving points	
vi)	Provisions for belts and chain tightening	
vii)	Provisions for transportation	
viii)	Provisions for trailer attachment	
ix)	Provisions for easy changing of components requiring frequent replacement (knife, blade, chopping blades, blower blades)	
x)	Provisions for easy replacement and cleaning of screens	
xi)	Provisions for anti-corrosive coatings	
xii)	Proper registrations of cutter bar	
xiii)	Welding of seams	
xiv)	Tightness of bolts and nuts and other fasteners	
b)	Provisions for adjustments	
i)	Concave clearance	
ii)	Cylinder Speed	
iii)	Screen slope	
iv)	Sieve clearance	
v)	Air displacement	
vi)	For quality of straw on terms of length and width	
vii)	Speed of the cutter bar	
viii)	Displacement of reel with respect to cutter bar	
ix)	Speed of the reel	
x)	Stone trap mechanism	
xi)	Height of cut	
xii)	Any other adjustment	

Place:

Signature-----

Date:

Name of the applicant-----

Designation-----

Address -----

Date:

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