

DEPARTMENT OF FARM MACHINERY AND POWER ENGINEERING COLLEGE OF AGRICULTURAL ENGINEERING AND TECHNOLOGY CCS HARYANA AGRICULTURAL UNIVERSITY HISAR-125004, HARYANA



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SPECIFICATION SHEET OF PADDY THRESHER

1.	Name of Machine	
2.	Name and address of Manufacturer	
3.	Name and address of applicant	
4.	Selling price in India	

	5. SPECIFIC	CAT	IONS
5.1	General:		
a)	Name	:	
b)	Type	:	
c)	Make	:	
d)	Serial Number	:	
e)	Model	:	
f)	Size of thresher (mm)	:	
g)	Recommended source of power by applicant	:	
h)	Design suitability as per applicant	:	
	-Main crop recommended	:	
	-Other crops recommended	:	
	-Thresher evaluated for	:	
i)	Year of manufacture	:	

5.2	Co	nstructional Details							
5.2.1	Frame/Stand:								
	a)	Constructional details	:						
	b)	Туре	:						
	c)	Size (mm)	:						
	d)	Material	:						
	e)	Size of rectangular box (mm)	:						
5.2.2	Pov	ver unit							
	a)	Provision	:						
	b)	Type of prime mover, recommended by the applicant	:						
	c)	Recommended power, (kW or hp)	:						
	d)	Type of drive	:						
5.2.3	Ma	in drive							
	a)	Туре	:						
	b)	Size of belt	:						
	c)	Size of pulley (mm)	:	-					
	d)	Diameter of main shaft (mm)	:						

5.2.4	Th	reshing cylinder		
5.2.4.1	Cyl	linder		
	a)	Type	:	
	b)	Constructional feature	:	
	c)	Diameter (mm)	:	
	d)	Width (mm)	:	
	e)	Recommended speed (rpm)	:	
	f)	Number and type of bearings	:	
	g)	Number and size of beaters /projections/bars (mm)	:	
	h)	Spacing between beaters (mm)	:	
	i)	Direction of rotation	:	
5.2.4.2	Coı	ncave		
	a)	Type	:	
	b)	Diameter or width (mm)	:	
	c)	Length (mm)	:	
	d)	Concave clearance range (mm)	:	
	e)	Recommended concave clearance (mm)	:	
	f)	Method of clearance adjustment	:	
	g)	Constructional feature	:	
	h)	Method of fixing	:	
5.2.5	Sie	ve		
	a)	Type	:	
	b)	Number	:	
	c)	Total length and width (mm)	:	
	d)	Effective length and width (mm)	:	
	e)	Number of holes per cm ²	:	
	f)	Size of hole (mm)	:	
	g)	Sieve clearance (mm)	:	
	h)	Screen slope range (°)	:	
		Recommended screen slope (°)	:	
	i)	Method of mounting	:	
5.2.6	Sha	aker		
	a)	Type	:	
	b)	Number of strokes per minute	:	
	c)	Drive	:	
	d)	Number and type of bearings	:	
5.2.7	Blo	wer		
	a)	Number	:	
	b)	Type	:	
	c)	Number of blades	:	
	d)	Size of blades (mm)	_:	
	e)	Diameter (mm)	:	
	f)	Recommended speed (rpm)	_:	
	g)	Recommended air displacement (m³/h)	:	
	h)	Provision for changing air displacement	:	
	i)	Size of inlet opening (mm)	:	
		displacement	:	

	j)	Size of outlet opening (mm)	:
	k)	Drive	:
	1)	Number and type of bearings	:
5.2.8	Ele	vator	
	a)	Туре	:
	b)	Constructional details	:
	c)	Capacity	:
	d)	Drive	:
	e)	Grain spout size (mm)	:
	f)	Height above ground level (mm)	:
	g)	Number and type of bearings	:
5.2.9	Cro	op feeding	
	a)	Туре	:
	b)	Method of feeding	:
	c)	Size of hopper (mm)	:
	d)	Height and location of hopper (mm)	:
	e)	Recommended maximum feed rate (kg/h)	

The dimensions of the hopper and star wheels when in conjunction with Fig. X shall be as given in below Table.

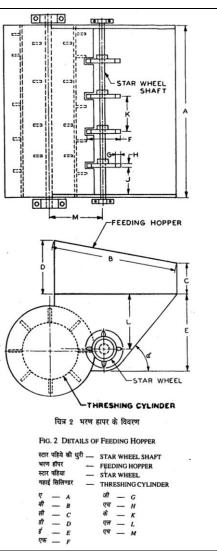


	Table	e: Dime	nsions ho	pper and	star who	eel (mn	1)			
	No	tations	Size of	the prim	ne mover	for thr	esher			
			7.5	11	15	18.7	and			
						ab	ove			
	BN		900	900	925	950				
	C N		180	200	220	240				
	D N		340	370	400	430				
	E M	<u> Iin</u>	75	500	535	565				
	F G		280	280	280	280		4		
	H		45	45 20	45 20	45 20				
	$\alpha + 5$	5°	50	50	50	50		1		
			er feeding				sed w	ith the		
			7.5 kW o	- •		•				
5.2.10	Trans	port							Į.	
	a) T	'ype				:				
			of wheels			:				
	-		heels (mi	n)		:				
		Vheel be				:	_			
5 2 11	· ·	- -	owing arr	angemer	nt	:				
5.2.11		neel size	of flywhe	ole		:				
		Diameter		C18		:				
		Mass (kg)	, ,			:				
5.2.12		all dime								
	a) L	ength (n	nm)			:				
	b) V	Vidth (m	ım)			:				
		leight (n				:				
			learance	` '		:	-			
			ss (withou	it prime	mover) (_			
	f) C	Colour				:				

5.3 Details of material of construction:

Material of Construction Data Sheet (Annex B, Clause 6.2, IS:11234-2001)

Sr.	Components	Material
1	Frame	
2	Feeding chute	
3	Threshing unit	
4	Drum	
5	Beater/projection/bar	
6	Concave	
7	Blower	
8	Main shaft	
9	Blower shaft	
10	Flywheel	
11	Sieve	

12	Shaker	
13	Elevator	
14	Transport wheel	
15	Pulleys	
16	Норре	
17	Star wheels	
18	Star wheel shaft	
19	Others	

Items	Method of adjustment	Range			
		For Paddy crop	Other crops*		
Threshing cylinder speed (rpm)	By changing pulley/setting the engine speed				
Concave clearance (mm)	By lowering/raising the concave				
Blower speed (rpm)	Changes according to threshing cylinder speed				
Shaker pulley speed (rpm)	By changing pulley				
Length of stroke (mm)	Fixed				
Angle of sieves (°) Top- Middle-Bottom	Fixed				
Blower inflow adjustment	Circular shutters are provided on both sides				

5.5 Lubricating points:

Sr.	Location	Number of grease cups	Recommende d lubricant	Lubricating schedule
1	Main shaft bearings			
2	Blower shaft bearings			
3	Shaking mechanism			
4	Straw Walker			
	- At rear			
	- At front			

Place:	
Date:	
	Signature:
	Name :
	Designation: