SPECIFICATION OF SELF PROPELLED COMBINE HARVESTER (Wheel Type)

1.1	General Name & address of manufacturer	
	Mame & address of manufacturer Make	:
	Model	
	Brand name (if any)	:
	Туре	:
	Year of manufacture	:
	Country of origin	:
1.2	Prime mover	
	Make	:
	Model	:
	Туре	:
	Engine speed (rpm) (Manufacturer's re Maximum speed at no load, rpm	ecommended setting) :
	Rated speed, rpm	:
	No load engine speed recommended fo operation, rpm	or field :
	Low idle speed, rpm	:
	Country of origin	:
	Details of Emission Certificate if any	:
1.2.1	Cylinder and cylinder head	
	Number	:
	Disposition	:
	Bore/Stroke, mm	:
	Capacity, cm ³	:
	Compression ratio	:
	Arrangement of valves	:
	Type of cylinder liners	:
	Type of head	:
	Type of combustion chamber	:
	Valve clearance in cold, mm	
	Inl	et valve :
	Exhau	st valve :
1.2.2	Fuel system	
	Type of fuel system	:
1.2.2.1	Fuel tank	
	Material	:
	Size, mm	:
	capacity, l	:
1.2.2.2	Fuel feed pump	
	Make	:
	Туре	:
	Model/Group combination number	:
	-	

1. SPECIFICATION

1.2.2.3	Fuel filters	
	Make	:
	Model/Group combination No.	:
	Number (s)	:
	Type of element	:
	Capacity of final stage filter, I	:
	Water separator (Provided/ not provided)	
1.2.2.4	Fuel injection pump	
	Make	:
	Model/Group combination No.	:
	Туре	:
	Method of drive	:
1.2.2.5	Fuel injectors	
	Make	:
	Туре	:
	Model/Group combination No.	:
	Injection opening pressure, (kgf/cm ²))	:
	Injection timing	:
	Firing order	:
1.2.3	Governor	
	Make	:
	Туре	:
	Designation	:
	Governed range of engine speed, rpm	:
1.2.4	Air Intake System	
	Туре	:
1.2.4.1	Pre-cleaner	
	Make	:
	Туре	:
	Number	:
	Location	:
1.2.4.2	Air cleaner	
	Make	:
	Туре	:
	Number	:
	Location	:
	Type of element	:
	Service indicator	:
	Dust unloading valve	:
	Recommended service Schedule	:
	Suction pressure at max. power, kPa	:
1.2.5	Exhaust	
	Make	:
	Туре	:
	Pressure at max. power, kPa	:

	Provision of spark arresting device/any other	:
4 3 5 4	device	
1.2.5.1	Details of turbocharger	
	Make	:
	Model	:
	Number of fan/wheels	:
	Number of blades	
	Turbine wheel	:
	Compressor fan	:
4 3 5 3	Means of lubrication	:
1.2.5.2	Charged air cooler (CAC) unit	
	Туре	:
	Make	:
	Size(LXWXH), mm	:
	No of Tubes	:
1.2.6	Lubrication system	:
	Туре	:
	Type of oil pump	:
	Method of drive	:
	Lub. oil pump rpm corresponding to rated rpm	:
	of engine, rpm	
	Oil sump capacity, l	:
1.2.6.1	Filters	
	Make	:
	Type of oil filters	:
	Relief valve pressure setting, kgf/cm ² ,	:
	Minimum permissible pressure, kgf/cm ² ,	:
1.2.6.2	Details of oil cooler (if any)	
1.2.7	Cooling system	:
	Туре	:
1.2.7.1	Water pump	
	Make	:
	Туре	:
	Size of impeller, mm	
	Diameter	:
	No. of vanes	:
1.2.7.2	Details of fan	
	Material & type	:
	No. of blade	:
	Size, mm	:
1.2.7.3	Radiator	
	Make	:
	Type and Radiator cap pressure, kgf/cm ²	:
	Means of temperature control	:
	Bare radiator capacity, l	:

	Total coolant capacity, l	:
	Means of grill cleaning, if any	:
1.2.8	Details of Air Compressor if any	
1.2.9	Starting system	
	Туре	:
	Any aid for cold starting	:
1.2.10	Electrical system	
1.2.10.1	Starter motor	
	Make	:
	Туре	:
	Model/ Group combination No.	:
	Power, kW	:
1.2.10.2	Alternator	
	Make	:
	Model/Group combination No.	:
	Output rating	:
1.2.10.3	Voltage regulator	:
1.2.10.4	Battery	
	Make	:
	Model/Type No.	:
	Туре	:
	20 h rating	:
1.2.10.5	Horn	
	Make	:
	Туре	:
1.3	Combine	
1.3.1	Wheel equipments	
1.3.1.1	Drive wheel	
	Make	:
	Туре	:
	Location	:
	Number, size & Ply rating	:
	Track width, mm	:
	Recommended tyre pressure, kPa	:
	Loading capacity at recommended tyre	:
1.3.1.2	pressure (kg) Steered wheel	
1.3.1.2	Make	
	Туре	
	Location	:
	Number/size & Ply rating	:
	Track width (mm)	:
	Recommended tyre pressure, kPa	:
	Loading capacity at recommended tyre	:
	pressure (kg)	
1.3.1.3	Wheel base, mm	:

1.3.2	Transmission system	
1.3.2.1	Clutch	
	Make	:
	Туре	:
	Size, mm	:
	No. of friction discs	:
1.3.2.2	Gear box	
	Make	:
	Туре	:
	No. of speeds	:
	Oil capacity, l	:
1.3.2.3	Final drive	
	Make	:
	Туре	:
	Reduction ratio	:
	Oil capacity, l	:
1.3.3	Brakes	
1.3.3.1	Service brake	
	Make	:
	Туре	:
	Area of shoe at each wheel side (cm ²)	:
1.3.3.2	Parking brake	
	Make	:
	Type and location	:
1.3.4	Steering system	
	Make	:
	Туре	:
	Outer diameter of steering control wheel,	
	mm	:
1.3.5	Hydraulic system	
1.3.5.1	Hydraulic pump for harvester's hydraulic c	ylinders
	Туре	:
	Make	:
	Model	:
	Number(s)	:
1.3.5.2	Hydraulic pump for steering	
	Туре	:
	Make	:
	Model	:
4 3 5 3	Number(s)	:
1.3.5.3	Hydraulic tank	
	Type	:
	Number(s)	:
	Capacity of Hydraulic tank, I	:
1 2 5 4	No. & type of oil filters	•
1.3.5.4	No. of hydraulic cylinders	:
1.3.6	Reel assembly	

	Type :	
	Type and Number of tine bars :	
	Size of tine bars, mm	
	Dia. :	
	Length :	
	Dia. and working width of reel, mm	
	Range of speed corresponding to :	
	recommended no load field rpm, rpm	
	Number of tines on each bar and their : spacing, mm	
	Arrangement for raising and lowering : the reel assembly	
	Safety device in reel drive :	
1.3.7	Cutter bar assembly	
	Working width, cm	
	Effective cutter bar width, cm :	
1.3.7.1	Knife blades	
	No. & type of knife blades	:
	Knife drive safety arrangement	:
	Knife stroke, mm	:
	Knife frequency per minute	:
	Knife speed corresponding to recommended	:
	no load field rpm, rpm	
	Type of crop dividers	:
	Arrangement for lifting lodged crop	:
1.3.7.3	Knife guard	
	No & type of knife guard	:
	Туре	:
1.3.7.4	Knife back	
	Type Dimensional man	:
1.3.8	Dimensions, mm Cutting platform auger	•
1.3.0	Type of crop conveyor	:
	Size of auger , mm	
	Speed of auger corresponding to	:
	recommended no load field rpm, rpm Arrangement for adjusting the clearance of	:
	crop auger	•
	Auger drive safety arrangement	:
1.3.9	Details of retractable fingers	
	Number(s)	:
	Range of throw out, mm	:
	Axial spacing between the fingers, mm	:
	Peripheral distance between the fingers, mm	
	Arrangement for adjustment of fingers	:
	length	-
	-	

Signature of Applicant:-Name:-Designation:-Seal:-

1.3.10	Undershot conveyor			
	Type of feeder conveyor	:		
	No. size and spacing of comb bar	:		
	Conveyor drive safety arrangement	:		
	Speed corresponding to recommended no	:		
	load engine speed of engine, rpm			
1.3.11	Threshing drum		For Wheat	For Paddy
	Туре	•		,
	Diameter and Width, mm	:		
	Range of speed corresponding to	:		
	recommended no load field rpm, rpm	•		
	No. of bars	:		
	No. of pegs and their spacing on each bar	:		
	No. of hub plate	:		
	Length of rasp bar/peg bar, mm	:		
	Height of pegs, mm	:		
	Method of speed variation	:		
	Provision of stone trap	:		
	Safety device	:		
1.3.12	Concave	•	For Wheat	For Paddy
1.0.12	Overall width of concave, mm		<u>I OF WHEat</u>	<u>i oi i uuuy</u>
	Effective width, mm	:		
	Type of concave	:		
	No. of bars	:		
		:		
	Peripheral length, mm	•		
	Peripheral effective length, mm	•		
	Effective area, sq. cm.	•		
	Details of extension	:		I
	Range of clearance, mm			
	Front	:		
	Rear	:		
	Method of adjusting the clearance between drum and concave	:		
1.3.13	Rear beater			
	Туре			
	Size of beater, length and width, mm	:		
		:		
	Speed corresponding to recommended no	•		
	load field rpm, rpm			
1.3.14	Baffle plate (Deflector)			
	Туре	:		
	No. of flap	:		
	Size of Baffle plate, mm	:		
	Method of flap adjustment	:		
1.3.15	Separating mechanism			
1.3.15.1	Straw walkers			
	Number(s)	:		
	Туре	:		
	Size of each straw walker, mm			
	Length	•		
	Width	:		

Oscillations per minutes corresponding to :

	recommended no load field rpm, rpm			
	Provision for varying oscillations of straw walkar	:		
1.3.15.2	Stepped grain pan			
	Туре	:		
	Size, mm	:		
1.3.15.3 1.3.15.3.1	Inclination and method of adjustment if any (degree) Cleaning sieves Top sieve No. of sieve	:		
	Туре	:		
	Overall size of sieve(L X W), mm	:	<u>Front</u>	<u>Rear</u>
	Oscillation per minute corresponding to recommended no load field rpm Lift/throw, mm	:		
	Arrangement for varying the opening of the sieve	:		
	Method of varying oscillation	:		
1.3.15.3.2	Bottom sieve No. of sieve Type Overall size of sieve, (L XW) mm	: :		
	Oscillation per minute corresponding to recommended no load field rpm Arrangement for varying the opening of the	:		
1.3.15.4	sieve Blower			
	Dia. mm	:		
	Effective width, mm No. & type of blade	:		
	Type of drive	:		
	Method of varying the blower speed Range of Speed corresponding to	:		
	recommended no load field rpm, rpm	:		
1.3.15.5	Method of controlling the air blast Grain pan Type	:		
	Size, mm	:		
	Inclination (degree) and method of adjustment if any	:		
1.3.15.6	Tailing pan			
	Type Size mm	:		
	Size, mm Inclination, (degree) and method of	:		

1.3.16 1.3.16.1	adjustment if any Grain conveying mechanism Bottom grain conveyor Type Size of conveyor(length Dia. and Pitch), mm Speed corresponding to recommended no	:
1.3.16.2	load field rpm, rpm Grain elevator	
	Type	:
	Length of elevator, mm	:
	Speed corresponding to recommended no	:
	load field rpm, rpm	
	Elevator drive safety arrangement	:
	Method of tensioning the chain	:
1.3.16.3	Upper grain auger	
	Туре	:
	Size of auger (Length, Dia. and Pitch), mm	:
	Speed corresponding to recommended no	:
	load field rpm , rpm	
	Drive safety arrangement	:
1.3.17	Tailing conveying mechanism	
1.3.17.1	Bottom tailing auger	
	Туре	:
	Size of auger(length, Dia. and pitch), mm	:
	Speed corresponding to recommended no	:
	load field rpm, rpm	
4 2 4 7 2	Drive safety	:
1.3.17.2	Tailing elevator Type	
	Length of elevator, mm	•
	Speed corresponding to recommended no	•
	load field rpm, rpm	
	Method of tensioning the chain	:
	Elevator drive safety arrangement	:
1.3.17.3	Upper tailing auger	
	Type	:
	Size(length, Dia. and Pitch), mm Speed corresponding to recommended no	:
	load field rpm, rpm	•
	Drive safety	:
1.3.18	Grain tank	
	Location	:
	Capacity Volume basis, m ³ (With wheat)	
	Provision of grain tank cover	•
	Provision for indication of grain tank filling	:
1.3.18.1	Grain conveying auger (Bottom of grain tank)	-
	Туре	:
	Size, mm	:
	Speed corresponding to recommended field	:

	operation rpm of engine, rpm Safety device	:		
1.3.18.2	Grain unloading auger	•		
	Туре			
	Size (length Dia. and pitch), mm	•		
		•		
	Horizontal reach, cm Discharge height above ground level, cm			
	Discharge height above ground level, chi	•		
	Clearance height, cm	:		
	Speed corresponding to recommended no load field rpm, rpm	:		
	Safety device	:		
1.4	List of safety devices provided on the machi	ne		
1.5	Details of Operating controls, gauges and in	struments	i	
1.6	Seat			
1.0	Make			
	Туре	•		
	Type of suspension	•		
	Type of dampening	•		
	Horizontal adjustment, mm	•		
	Adjustment of back rest, mm	•		
1.7	Canopy	•		
	Туре	:		
	Canopy size, mm	:		
	Height from operator's platform, mm	:		
1.8	Overall dimensions of combine harvester,		Working	Transport
	cm		Position	position
	Length	:		
	Width	:		
	Height	:		
1.9	Mass			
	Mass of combine harvester with			
	coolant, fuel, lubricants & grain tank			
	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the			
	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg			
	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total	:		
	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front	:		
1 10	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear	:		
1.10	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm	: : :		
1.10 1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points:	: : : : : : : : : : : : : : : : : : : :		
	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes	: : : : : : : : : : : : : : : : : : : :		
	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups	: : : : : : : : : : : : : : : : : : : :		
1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling	: : : : : : : : : : : : : : : : : : : :		
	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling Header transport trailer	: : : : : : : : : : : : : : : : : : : :		
1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling Header transport trailer Type	: : : : : : : : : : : : : : : : : : : :		
1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling Header transport trailer Type Size(LXWXH), mm	: : : : : : : : : : : : : : : : : : : :		
1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling Header transport trailer Type			
1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling Header transport trailer Type Size(LXWXH), mm No. & type of wheel Make	: : : : : : : : : : : : : : : : : : : :		
1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling Header transport trailer Type Size(LXWXH), mm No. & type of wheel	:::::::::::::::::::::::::::::::::::::::		
1.11	coolant, fuel, lubricants & grain tank (wheat) full and 75 kg mass on the operator's seat, kg Total Front Rear Ground clearance, mm Total number of lubricating points: Grease Nipples/grease holes Greasing cups Oiling Header transport trailer Type Size(LXWXH), mm No. & type of wheel Make Size & Ply rating			

position, mm

1.13 Details of labelling plate

:

2. STRAW CHOPPER CUM SPREADER (SMS) (IF FITTED)

2.1	General	
	Make of SMS	:
	Model of SMS	:
	Type of SMS	:
	Name and complete Address of the	:
	manufacturer of SMS including	
	PIN/Mob./email etc.	
2.2	Rotor	
	Rotor Diameter, mm	:
	No of lugs on rotar in a row	:
	No of rows in a periphery	:
	Width of flail, mm	:
	Thickness of flail, mm	:
	No. of flail in one set	•
	Spacing between flail of one set, mm	•
	Distance between adjacent flail unit,	•
	mm	•
	Rotor dia with blade, mm	
	No of Rows/bar of serrated blade	:
	No of serrated blade in a row	:
	Spacing between serrated blades, mm	:
	Clearance between pivotal blade and	:
	concave	•
	Overlapping of pivotal blade on serrated	•
	blade, mm	•
	Rotor rpm	•
2.3	Transmission	:
2.0	Diameter of Drive Pulley	:
	Diameter of Driven pulley	:
2.4	Spreader	•
2.7	Total no of flap, mm	:
	Length of flap, cm	:
	Distance between flaps(left to right)	:
	Spreader angle with horizontal, Degree	:
	Spreader angle with line of travel ,	:
	degree	•
	Spreader sheet thickness, mm	
	SMS sheet thickness, mm	:
2.5	Overall dimensions (mm)	•
2.5	Length	
	Width	:
	Height	:
2.6	Overall Mass (kg)	:
2.0		•
2.1	SAFETY REQUIREMENT FOR SMS	•
	Guards over all moving parts	
	Guards over all moving parts RPM indicator of rotor	:
		•

Overlapping of flail and fixed serrated blade (The clearance should be adjustable)

2.10 Information provided on Labeling plate on SMS (details):

3 Lubricants:

SI. No.	Particulars	As recommended by the applicant	Oil change period
1.	Engine oil		
2.	Hydraulic oil		
3.	Transmission and final drive housing oil		
4.	Hydrostatic steering oil		
5.	Grease		

:

SELECTED PERFORMANCE AND OTHER CHARACTERISTICS AS PER IS 15806-2018 TO BE DECLARED BY APPLICANT

S.		Characteristics	Category (Evaluative/No	Requirement	Tolerance	Declarati-	Remarks
s. No			n evaluative)			on by applicant	
1.	Prim	e mover performance	ii evaluativej			applicant	
	a)	Max. Power (absolute) Average max. power observed during 2 hrs. max. power test in natural ambient condition, kW	Evaluative	To be declared by manufacturer	Declared value to be achieved with a tolerance of ±5%		
	b)	Max. power observed during test after adjusting the no load engine speed as per recommendation of the manufacturer for field work, kW	Evaluative	To be declared by manufacturer	-do-		
	c)	Power at rated engine speed, kW (under natural ambient condition)	Non-Evaluative	To be declared by manufacturer	-do-		
	d)	Specific fuel consumption corresponding to average maximum power under 2h maximum power test, g/kWh.	Evaluative	-do-	+5%(Max.)		
	e)	Max. smoke density at 80% load between the speed at max. power & 55% of speed at max. or 1000 rpm whichever is higher	Evaluative	As pre CMV rules.	Nil	-	

Date :-

f)	Max. crank shaft torque, (Nm) observed during the test after no load engine speed is adjusted as per manufacture's	Evaluative	To be declared by manufacturer	±8%		
	recommendation for field work					
g)	Back up torque, %	Evaluative	7 percent, (Min.)	Nil	-	
h)	Max. Operating temperature, OC i) Engine oil	Evaluative	To be declared by manufacturer	Nil	v h c r n v b c v v b v v v v v	The observed alue under the high ambient ondition should not exceed naximum safe alue specified by the oil ompany which vill be provided by the applicant
	ii) coolant	Evaluative	To be declared by manufacturer	Nil	v e t c t c t v a c r	The declared alue should not exceed the poiling emperature of oolant under he pressurized or otherwise and he observed alue under high mbient ondition should not exceed the leclaration
i) 2.Brake p a)	Lubrication oil consumption, g/kWh performance at 24km/h or Maximum Max. Stopping distance at a	Evaluative n Speed whicheve Evaluative	As pre CMV	Nil	T k t u a	he value should be based on the est conducted inder high mbient ondition
	force equal to or less than 600 N on brake pedal (m) – (cold brake and hot brake)		rules.			
b)	Max. Force exerted on brake pedal to achieve a deceleration of 2.5 m/sec ²	Evaluative	≤ 600 N	Nil		
c)	Effectiveness of parking brake at a force of 600 N at foot pedal or 400 N at Hand lever	Evaluative	As pre CMV rules.	Nil	cor as t sho	ed on the test aducted, Yes/No the case may be ould be icated

3.Mecha	anical vibration				
i)	Operator's platform	Non evaluative	120 µm max.	Nil	
ii)	Steering wheel	Non evaluative	150 µm max.	Nil	
iii) Seat with driver seated	Non evaluative	120 µm max.	Nil	
4.Air cle	aner oil pull over		II		
i)		Evaluative	0.20% max.	Nil	
5.Noise	measurement				
i)		Evaluative	as per CMVR	Nil	As per road transport condition
ii)	Max. noise at operator's ear level dB (A)	Evaluative	as per CMVR	Nil	In actual field condition
6. Heade	er Lifting Test	J	1 1		1
	Satisfactory completion of header lifting test	Evaluative	Satisfactory completion	Nil	The observed Hydraulic oil temp should not exceed maximum safe value specified by the oil company which will be provided by the applicant.
7.Discar	d limit	•	· · ·	·	·
a)	Cylinder bore diameter, mm	Evaluative	Should not exceed the values declared by the manufacture	Nil	
b)	Piston diameter, mm	Evaluative	-do-	Nil	
c)	Piston to cylinder liner clearance at skirt	Evaluative	-do-	Nil	
d)	Ring end gap, mm	Evaluative	-do-	Nil	
e)		Evaluative	-do-	Nil	
f)	Diametrical clearance of big end bearing, mm	Evaluative	-do-	Nil	
g)	-	Evaluative	-do-	Nil	
h)		Evaluative	-do-	Nil	
i)		Evaluative	-do-	Nil	
j)		Evaluative	-do-	Nil	
k)		Evaluative	-do-	Nil	

I))	Spring stiffness(N/mm)	-	-		-do-	Nil	
n	m)	Clearance between valve an	d ·	-		-do-	Nil	
		valve guide(mm)						
8.Field	perf	ormance						
a	a)	Suitability for crops E	valuative	Wheat &	pa	ddy (Wheel	Nil	
				type) Pac	addy (Track type)			
b	b)	Processing losses (%) E	valuative	Wheat	:	Max 3%	Nil	
				Barley	:	Max 4%		
				Rice	:	Max 4%		
				Sorghum	:	Max 3%		
				Maize	:	Max 4%		
				Oil seed,		Max 4%		
				rape				
				Soya-	:	Max 5%		
				beans				
С	c)	Threshing efficiency E	valuative	-	:	≥ 98 % for	Nil	
						wheat and		
						paddy		

	N								1
	d)	Cleaning efficiency	Evaluative	-	:	≥ 96 % for	Nil		
						wheat and			
						paddy			
	e)	Grain breakage in main	Evaluative	-	:	≤ 2.5 %	Nil		
		grain tank							
	f)	Non collectable losses	Evaluative	-	:	≤ 2.5 % for	Nil		
						wheat,			
						paddy and			
						gram			
						≤ 4.0 % for			
						soyabean			
9. Fie	ld per	formance for Straw Manage	ment Systen	n (If fitted)					
	a)	Uniformity of straw	Evaluative	-	:	20, Max.	-		
	۳,	spread ,CV (Percent)	Evaluative			20) 1110/0			
	b)	Weighted mean size of	Evaluative	-	:	20,Max.	-		
		chopped straw, cm							
10. Sa	afety r	equirements						•	
	a)	Guards against all mov	/ing Evalua	tive	B	elt and chain			As per IS 12239
		parts/drives and hot part			d	rives, pulleys			(Part 1)
						hydraulic			. ,
					a	ipes(Around			
						operators			
						workplace)			
	b)	Lighting arrangement	Evalua	tive		sential as per	-		
	~/					CMVR			
	c)	Grain tank cover	Evalua	tive		Essential	_		
	0,		LValue			Losentia			
	d)	Spark arrester in engir	ne's Evalua	tive		Essential	-		
	-	exhaust in case natur	ally						
		aspirated engine							
	e)	Stone trap before concave	Evalua	tive		Essential	-		
	f)	Rear view mirror	Evalua	tive		Essential	-		
	g)	Fire extinguisher	Evalua			Essential	-		
	6/	The excitigationer	Lvalue			Loochtian			1

	h)	Slip clutch at following drives			-		
		 i) Cutting platform auger 	Evaluative	Essential			
		ii) Undershot conveyor drive iii) Grain & tailing elevator	Non evaluative	Optional			
			Non evaluative	Optional			
	i)	Anti slip surfaces at operator platform & ladder & proper gripping for the control levers.	Evaluative	Essential			As per IS 12239 (Part 1)
	j)	Working clearance around the controls	Evaluative	Essential 70mm, min	-		As per IS 12239 (Part 1)
	k)	Labelling of control and gauges and operating controls	Evaluative	Essential	-		As per IS 6283(Part 1)
11. N	Materi	al of construction :					
		Guards, knife blades and knife back	Non evaluative	Conforming to IS 6024, IS 6025 and IS 10378 respectively	-	-	-
12.		Material of blades for Straw Management System (SMS)	Non-Evaluative	The flail and fixed b shall be manufactu from steel having th following chemical composition or suc composition as sha agreed between th supplier and the put a)Carbon : 0.70 to 0 b)Manganese : 0.6 % c)Chrome : 0.1 % d)Nickle : 0.1 %	red he h other II be e irchaser:).1 %		
13.		Bushes for flail blades	Non-Evaluative	Mild steel			
14.		Hardness of flail blades for Straw Management System (SMS)	Evaluative	Bush section : 20 to Edge section(Harde zone) : 48 to 48 HR Remainder zone: 20 HRC	ened C		
15.		Hardness of serrated blades for Straw Management System (SMS)	Evaluative	Bush section : 20 to Edge section(Harde zone) : 48 to 58 HR Remainder zone: 20 HRC	ened C		

16.		Safety Requirements for Straw Management System(if Fitted)							
	a)	Guards against all moving parts/drives and hot parts	Evaluative	Essential					
	b)	RPM indicator for rotor	Evaluative	Desirable					
	c)	Overlapping of flail and fixed serrated blades	Evaluative	Essential	The clearance of the flail and fixed serrated blades should be adjustable				

Place:

Date:

Signature-----

Name of the applicant-----

Designation-----

Address-----

Date :-