



भारत सरकार /GOVERNMENT OF INDIA

उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Northern Region Farm Machinery Training and Testing Institute ट्रैक्टर नगर, सिरसा रोड, हिसार)हरियाणा—(125001 TRACTOR NAGAR, SIRSA ROAD, HISAR (HARYANA)-125001 Website: http://nrfmtti.gov.in E-mail: fmti-nr@nic.in GSTIN:06AAAGN0273PIZ3 Tele./FAX: 01662-276984

TECHNICAL SPECIFICATIONS FOR SELF PROPELLED COMBINE HARVESTER (WHEEL TYPE) FOR BATCH/VARIANT/ADMINISTRATIVE/TECHNICAL EXTENSION

Sr. No.	Particulars		Previous sample as per test report No	Present sample	Remarks
1	2	3	4	5	6
1.1	General:				
	Name & address of manufacturer	:			
	Name & address of applicant/importer	:			
	Make	:			
	Model	:			
	Brand name (if any)	:			
	Type	:			
	Year of manufacture	:			
	Serial No./Chassis No.	:			
	Country of origin	:			
	Type of crops recommended for harvesting	:			
1.2	Prime mover:				
	Make	:			
	Model	:			
	Туре	:			
	Serial No.	:			
	Engine speed (rpm) (Manufacturer's red	com	mended setting):		•
	Maximum speed at no load, rpm	:	<u> </u>		
	Rated speed, rpm	:			
	No load engine speed recommended for field operation, rpm	:			
	Low idle speed, rpm	:			
	Location	:			
	Country of origin	:			
	Whether the prime mover has already been tested by authorized testing centre (Yes/No)	:			

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	If yes, then specify valid test report No.	:			
	and upload copy of the test report				
	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):				
	-Inlet valve	:			
	-Exhaust valve	1:			
1.2.2	Fuel system:	•			
1.2.2	Type of fuel system		=		
1.2.2.1	Fuel tank:	•			
1.2.2.1	Material	1.1			
	Size, mm	:			
	Capacity, 1	:			
1,2,2,2		•			
1.2.2.2	Fuel feed pump:	1 1			
	Make	:			
	Type	:			
	Model/Group combination number	:			
	Provision of sediment bowl	:			
1.2.2.3	Fuel filters:			,	
	Make	:			
	Model/Group combination No.	:			
	Number (s)	:			
	Type of element:				
	Primary	:			
	Secondary	:			
	Capacity of final stage filter, 1	:			
	Provision of water separator	:			
	Make	:			
	Location	:			
1.2.2.4	Fuel injection pump				
	Make	:			
	Model/Group combination No.	:			
	Type	:			
	Method of drive	:			
1.2.2.5	Fuel injectors:				
	Make				
	Type	:			
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	Model/Group combination No.	:					
	Injection opening pressure, kgf/cm ²	:					
	Injection timing, degree	:					
	Firing order	:					
1.2.3	Governor:			•			
	Make	:					
	Туре	:					
	Model/Group combination	:					
	number/Designation						
	Governed range of engine speed, rpm	:					
1.2.4	Air Intake System:						
1011	Туре	:					
1.2.4.1	Pre-cleaner:						
	Make	:					
	Type	:					
	Number	:					
1010	Location	:					
1.2.4.2	Air cleaner:						
	Make	:					
	Type	:					
	Number	:					
	Location	:					
	Type of element	:		la -		1	
	Size of filter element, mm:		Primary (outer)	Secondary (inner)	Primary (outer)	Secondary (inner)	
	Inner dia.	:					
	Outer dia.	:					
	Length	:					
	Service indicator	:		•		•	
	Dust unloading valve	:					
	Recommended service Schedule, h	:					
	Suction pressure at max. power, kPa	:					
1.2.5	Exhaust:						
	Make	:					
	Туре	:					
	Pressure at max. power, kPa	:					
	Provision of spark arresting device/any	:					
	other device						
1.2.5.1	Details of turbocharger;			l			
	Make	:					
	N. 1.1	:					
	Model	•					
	Number of fan/wheels	:					
	Number of fan/wheels						
	Number of fan/wheels Number of blades: -Turbine wheel	:					
	Number of fan/wheels Number of blades:	:					

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	Means of lubrication		:				
1.2.5.2	Charged air cooler (CAC) unit		T		<u> </u>	
	Type		:				
	Make		:				
	Size(LXWXH), mm		:				
	No of Tubes		:				
1.2.5.3	EGR:						
	Make		:				
	Type		:				
	Part No.		:				
1.2.5.4	Exhaust treatment s						
1.2.5.4.1	Diesel Oxidation Cat	talyst (DOC):		T			
	Make		:				
	DOC description		:				
	Part No.		:				
	Location		:				
1.2.5.4.2	Selective catalyst Re	duction (SCR):					
	Make		:				
	Description		:				
	Location		:				
	Details of diesel exha	ust fluid tank:					
	Capacity, 1		:				
	Location		:				
	Material of constructi	on	:				
	Provision of draining		:				
	Recommended diesel	exhaust fluid	:				
1.2.6	Lubrication system:						
	Type		:				
	Type of oil pump		:				
	Method of drive		:				
	Lube oil pump rpm co	orresponding to	:				
	rated rpm of engine, r						
	Oil sump capacity, 1		:				
	Oil change period, h		:				
	Recommended grade	of oil	:				
1.2.6.1	Filters:		•				
	Make		:				
	Numbers		:				
	Type of oil filters		:				
	Relief valve pressure	setting, kgf/cm ² ,	:				
	Minimum permissible		:				
1.2.6.2	Provision of oil coole			<u> </u>			
1,4,0,4		·-•	Τ.	T			
	Type		:				
	Make		:				
	Part No.		:				
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1	2	2	3	4		5	6
	No. of plates		:				
1.2.7	Cooling system:		-	•			
	Туре		:				
1.2.7.1	Water pump:						
	Make		:				
	Туре		:				
	No. of vanes		:				
	Dia. of impeller		:				
	Method of drive		:				
1.2.7.2	Details of fan:						
1,2,7,7,2	Material & type		:				
	No. of blade		:				
	Size, mm		:				
1.2.7.3	Radiator:		•				
1.2.7.3	Make						
	Type of radiator cap		:				
	Radiator cap pressure	lraf/am²	:				
	Means of temperature						
		Control	:				
	Type of thermostat	. 1	:				
	Bare radiator capacity		:				
	Total coolant capacity		:				
	Means of grill cleaning		:				
	Recommended grade	of coolant	:				
	Coolant water ratio		:				
1.2.8	Details of Air Comp	ressor (if any)					
1.2.9	Starting system:						
	Туре		:				
	Any aid for cold starti	ng	:				
	Any other device prov	vided for easy	:				
	starting						
1.2.10	Electrical system:						
1.2.10.1	Starter motor:						
	Make		:				
	Туре		:				
	Model/ Group combin	nation No.	:				
	Capacity/Power, kW		:				
	Location		:				
1.2.10.2	Alternator:		<u> </u>				
	Make		:				
	Model/Group combin	ation No.	:				
	Output rating		:				
	Location		:				
	Method of drive		:				
1.2.10.3	Voltage regulator		:				
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1.2.10.4	Battery:	2	3	4	•	5	6
1,4,10,4	Make						
	Model/Type N	0					
	Type	0.	:				
	Capacity		:				
	No. & location						
1.2.10.5	Details of ligh		:				
1.2.10.5.1	Previous samp						
Description		No. & capacity of bulb	Height abov centre of As per requirement	beam		Size of beam, (mm)	Distance from centre of the beam to outside edge of combine
			of CMVR				(mm)
Head light			3000 (Max.				
Front turn	indicator light		2100 (Max.	.)			
Front park	ing light		2100 (Max.	.)			
Front field lights			Not applicab				
Grain unlo	ading light		Not applicab	ole			
Side inspec	ction light		Not applicab	ole			
Engine ins	pection light		Not applicab	le			
Top rear li	ght		Not applicab	ole			
Rear turn i	ndicator light		2100 (Max.	.)			
position lig			2100 (Max.				
Rear brake			2100 (Max.				
light	ear indicator		2100 (Max.				
Number pl			2100 (Max.	_			
light	ker inspection		2100 (Max.)			
Reflectors			2100 04	<u>. </u>			
Front refle			2100 (Max.				
Rear reflec			2100 (Max.	<i>'</i>			
Side reflec	etors		Not applicab				
SMVE			Not applicab	le			
Trailer lig				. 1		· · · · · · · · · · · · · · · · · · ·	
Brake ligh			2100 (Max.				
Turn indica			2100 (Max.				
Parking of light	cum position		2100 (Max.)			
Reverse g	ear indicator		2100 (Max.)			
Number pl	late light		2100 (Max.)			
Reflectors			1			<u> </u>	
Rear reflec			2100 (Max.)			
	nufacturer/ Applicant	Document No, if an	· ·	′	Name of the	Test Agency: NRFM	lTI,Hisar
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Side reflector			2100 (Max.)			
SMVE			Not applicable			
1.2.10.5.2	Present sample	le:				
Description	n	No. & capacity of bulb	Height above gr centre of bea As per		Size of beam, (mm)	Distance from centre of the beam to outside edge of combine
			requirements of CMVR	observed		(mm)
Head lights	S		3000 (Max.)			
Front turn i	indicator light		2100 (Max.)			
Front parki	ing light		2100 (Max.)			
Front field lights			Not applicable			
Grain unlo			Not applicable			
Side inspec			Not applicable			
	pection light		Not applicable			
Top rear lig	ght		Not applicable			
Rear turn in	ndicator light		2100 (Max.)			
position lig			2100 (Max.)			
Rear brake			2100 (Max.)			
light	ear indicator		2100 (Max.)			
Number pla			2100 (Max.)			
light	ter inspection		2100 (Max.)			
Reflectors			2100 05		T	
Front reflec			2100 (Max.)			
Rear reflec			2100 (Max.)			
Side reflect	tors		Not applicable			
SMVA			Not applicable			
Trailer lig						
Brake light			2100 (Max.)			
Turn indica	-		2100 (Max.)			
Parking c light	cum position		2100 (Max.)			
-	ear indicator		2100 (Max.)			
Number pla	ate light		2100 (Max.)			
Reflectors			2100 (Wax.)			
Rear reflec			2100 (Max.)			
Side reflect	tor		2100 (Max.)			
SMVE			Not applicable			
	tor					

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1.2.10.6	Horn:	3	4	5	6
1.2.10.0	Make				
		:			
	Type Numbers				
	Location	:			
1.3	Combine:	•			
1.3.1	Wheel equipments:				
1.3.1.1	Drive wheel:				
1.3.1.1	Make	:			
	Туре	:			
	Location	:			
	Number, size & ply rating	:			
	Track width, mm	:			
	Recommended tyre pressure, kPa	:			
	Loading capacity at recommended tyre	:			
	pressure (kg)	•			
1.3.1.2	Steered wheel:				
	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:			l	
1.3.2	Transmission system				
1.3.2.1	Clutch				
	Make	:			
	Type	:			
	Size, mm	:			
	No. of friction discs	:			
	Location	:			
	Method of operation	:			
1.3.2.2	Gear box			<u>.</u>	
	Make	:			
	Туре	:			
	Location	:			
	No. of speeds (Forward & Reverse)	:			
	Method of drive	:			
	Method of gear shifting	:			
	Oil capacity, l	:			
	Recommended grade of oil	:			
	Oil change period, h	:			
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1			2		3	4	5		6	
1.3.2.3	Final d	lrive:			•		•	<u>'</u>		
	Make				:					
	Type				:					
	Reduct	ion ratio			:					
	Locatio	on			:					
	Oil capacity, 1				:					
	Recom	mended g	rade of oil		:					
	Oil cha	nge perio	d, h		:		L			
1.3.2.4	Nomin	al speed:								
1.3.2.4.1		us sample								
Mover		Gear	No. of engine revo	olutions	for one	Nominal spe	eed at rated e	engine	speed of	
		No.	revolution of driving			rpm when f	itted with		size of tyre	
						of mm				
			Variata				Variator	~~44:~		
			Minimum	r setting	aximum	Minin	Variator		Maximum	
Forward		1	Willimitatii	1716	ixiiiuiii	IVIIIII	iluili	1	viaxiiiuiii	
1 or ward										
		2								
		3								
Reverse		R								
1.3.2.4.2	Presen	t sample:	<u> </u>			L				
Mover	l	Gear	No. of engine revo	olutions	for one	Nominal spe	eed at rated e	engine	speed of	
	No. revolution of driving who							size of tyre		
					of mm radius inde		radius index	ex. (kmph)		
			Variato	r setting			Variator	ariator setting		
			Minimum		aximum	Minimum		Maximum		
			TVIIIIIIIIIIII	1710	tXIIIIGIII			1	viaximam	
Forward		1								
Forward		1								
Forward		1 2								
Forward										
		2 3								
Reverse	Brakes	2 3 R								
Reverse 1.3.3	Brakes Service	2 3 R								
Reverse	Service	2 3 R								
Reverse 1.3.3	Service Make	2 3 R								
Reverse 1.3.3	Service Make Type	2 3 R s:	at each wheel side	:						
Reverse 1.3.3	Service Make Type Area of	2 3 R s:	e at each wheel side							
Reverse 1.3.3	Make Type Area of (cm²)	2 3 R s: e brake:	e at each wheel side	:						
Reverse 1.3.3	Make Type Area of (cm²) Location	2 3 R s: e brake:		:						
Reverse 1.3.3 1.3.3.1	Make Type Area of (cm²) Location Method	2 3 R s: e brake:		:						
Reverse 1.3.3	Service Make Type Area of (cm²) Locatio Method	2 3 R s: e brake:		:						
Reverse 1.3.3 1.3.3.1	Service Make Type Area of (cm²) Locatio Method Parkin Make	2 3 R s: e brake: on d of opera	tion	:						
Reverse 1.3.3 1.3.3.1	Service Make Type Area of (cm²) Locatio Method Parkin Make Type ar	2 3 R s: e brake: f disc/shoon d of opera	n	:						
Reverse 1.3.3 1.3.3.1	Make Type Area of (cm²) Locatio Method Parkin Make Type an Method	2 3 R s: e brake: f disc/shoot on d of opera g brake: nd locatio	n tion	:						
Reverse 1.3.3 1.3.3.1	Make Type Area of (cm²) Locatio Method Parkin Make Type an Method	2 3 R s: e brake: f disc/shoon d of opera	n tion	:						

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	Model	:			
	Number(s)	:			
	Location	:			
	Method of drive	:			
1.3.5.3	Hydraulic tank :				
	Type	:			
	Number(s)	:			
	Location	:			
	Size (L×W×H), mm	:			
	Capacity of hydraulic tank, 1	:			
	No. & type of oil filters	:			
	Recommended grade of oil	:			
	Oil change period, h	:			
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 speed of engine				
	for field work, rpm				
	Number of tines on each bar and their	:			
	spacing, mm				
	Maximum distance ahead of cutter bar	:			
	points, mm				
	Maximum distance behind of cutter bar	:			
	points, mm				
	Maximum vertical distance above the	:			
	cutter bar points from the centre of reel, mm				
	Arrangement for raising and lowering the	:			
	reel assembly	•			
	Arrangement for forward and backward	:			
	movement of reel				
	Arrangement for variation of angle of tine	:			
	Type of reel drive	:			
	Method of tensioning	:			
	Safety device in reel drive	:			
1.3.7	Cutter bar assembly:	1			
	Working width, cm	:			
	Effective cutter bar width, cm	:			
	No. & spacing of knife guards, mm	:			

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1.3.7.1	Knife blades				
	No. & type of knife blades	:			
	Marking:				
	Marking of manufacturer's name or recognized trade mark	:			
	Marking of batch or code number	:			
	Type and thickness	:			
	Details of knife drive	:			
	Knife drive safety arrangement	:			
	Knife stroke, mm	:			
	Knife frequency per minute	:			
	Knife speed corresponding to	:			
	recommended no load speed of engine				
	for field work, rpm				
	No. & type of crop dividers	:			
	Arrangement for lifting lodged crop	:			
1.3.7.2	Knife guard:	<u> </u>			
	No. & type of knife guard	:			
	Provision of anti corrosive coating	:			
	Marking:				
	Manufacturer's name or recognized trade mark	:			
	Batch or code number	:			
	Type	:			
1.3.7.3	Knife back:		Γ	Г	
	Type Marking:	:			
	Manufacturer's name or recognized	:			
	trade mark	•			
	Batch or code number	:			
1.3.8	Cutting platform auger:	•			
11010	Type of crop conveyor	:			
	Size of auger (Dia., Pitch & Width), mm	:			
	Speed of auger corresponding to	:			
	recommended no load speed of engine				
	for field work, rpm Arrangement for adjusting the clearance				
	of crop auger	:			
	Auger drive safety arrangement	:			
	Height of header assembly in the	:			
	transport position, cm				
	Arrangement for locking the header	:			
	assembly in raised position				
	Arrangement for side way tilting the	:			
	cutter bar				

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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	:					
1.3.10	Undershot conveyor:						
2,0,20	Type of feeder conveyor	:					
	No. size and spacing of comb bar	:					
	Conveyor drive safety arrangement	:					
	Arrangement for adjusting clearance	:					
	between comb and platform and						
	•						
	tensioning the chain						
	Speed corresponding to recommended	:					
	no load engine speed of engine for						
	field work, rpm						
1 2 11	No. & type of bearings	:	Ear	For	For	Ear	
1.3.11	Threshing drum:		<u>For</u> Wheat	<u>For</u> Paddy	<u>For</u> Wheat	<u>For</u> Paddy	
	Type	:					
	Outer diameter and width, mm	:					
	Range of speed corresponding to	:					
	recommended no load speed of engine						
	for field work, 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	:					
	No. of rasps/100 mm	:					
	No. of rasps on each bar	:					
	Arrangement of bars	:					
	No. & type of bearings	:					
	Method of speed variation Provision of stone trap	:					
	Safety device	:					
1.3.12	Concave:	:	Eom	Eo.	Eom	Eom	
1.3.12	Concave.		<u>For</u> Wheat	<u>For</u> Paddy	<u>For</u> Wheat	<u>For</u> Paddy	
	Overall width of concave, mm	:	Wilcat	1 addy	vviicat	1 addy	
	Effective width, mm	:					
	Type of concave	:					
	No. of bars	:					
	No. of pegs per bar & spacing	:					
	Height/ Spacing of the pegs, mm						
		•					
	Peripheral length, mm Peripheral effective length, mm	:					
	Effective area, sq. cm.	:					
	Details of extension	:					
	Details of extension	:					
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	Range of clearance (mm):				
	Front	:			
	Rear	:			
	Method of adjusting the clearance	:			
	between drum and concave				
1.3.13	Rear beater:	1 1			ı
	Type	:			
	Size of beater, length and width, mm	:			
	Speed corresponding to recommended	:			
	no load speed of engine for field work,				
1.3.14	rpm Baffle plate (Deflector):				
1,0,14	Type	:			
	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):				I
	Length	:			
	Width	:			
	Area of each walker, sq. m	:			
	Lift/throw, mm	:			
	Oscillations per minutes	:			
	corresponding to recommended no	•			
	load speed of				
	engine for field work, rpm Provision for varying oscillations of	:			
	straw walkar	•			
	Type of extension	:			
1 2 1 5 2	No. & type of bearings	:			
1.3.15.2	Stepped grain pan:		T		Π
	Type	:			
	Size, mm	:			
	Effective area of pan, m ²	:			
	Details of extension	:			
	Location	:			
	Inclination (degree)	:			
			<u> </u>		

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1.3.15.3.1 Top sieve:	1	2	3	4			5	6
No. of sieve : Type : Pront Rear Front Rear Length Effective cleaning area, mm² Coscillation per minute corresponding to recommended no load speed of engine for field work Effective cleaning area, mm² Coscillation per minute corresponding to recommended no load speed of engine for field work Coscillation per minute corresponding of the sieve Coscillation per minute corresponding of the sieve Coscillation	1.3.15.3	Cleaning sieves:						
Type Overall size of sieve, mm: Length : Width : Effective cleaning area, mm² : Area of extension, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Lift/throw, mm : Arrangement for varying the opening of the sieve Height of lips at max. opening, mm : Method of varying oscillation : Method of drive : 1.3.15.3.2 Bottom sieve: No. of sieve : Type : Overall size of sieve, mm: Length : Width : Effective cleaning area, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation : Arrangement for varying the opening of : Arrangement for varying the opening of :	1.3.15.3.1	Top sieve:						
Coverall size of sieve, mm: Length :		No. of sieve	:					
Length : Width : Effective cleaning area, mm² : Area of extension, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Lift/throw, mm : Arrangement for varying the opening of the sieve Height of lips at max. opening, mm : Method of varying oscillation : Method of drive : Interest in the sieve in		Туре	:					
Width : Effective cleaning area, mm² : Area of extension, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Lift/throw, mm : Arrangement for varying the opening of the sieve Height of lips at max. opening, mm : Method of varying oscillation : Method of drive : 1.3.15.3.2 Bottom sieve: No. of sieve : Type : Overall size of sieve, mm: Length : Width : Effective cleaning area, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation : Arrangement for varying the opening of :		Overall size of sieve, mm:		Front	Rear	Front	Rear	
Width : Effective cleaning area, mm² : Area of extension, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Lift/throw, mm : Arrangement for varying the opening of the sieve Height of lips at max. opening, mm : Method of varying oscillation : Method of drive : 1.3.15.3.2 Bottom sieve: No. of sieve : Type : Overall size of sieve, mm: Length : Width : Effective cleaning area, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation : Arrangement for varying the opening of :		Length	:					
Effective cleaning area, mm² : Area of extension, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Lift/throw, mm		_						
Oscillation per minute corresponding to recommended no load speed of engine for field work Lift/throw, mm Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of :		Effective cleaning area, mm ²			l	1		
recommended no load speed of engine for field work Lift/throw, mm Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of Arrangement for varying the opening of Arrangement for varying the opening of Lift/throw, mm Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of Arrangement for varying the opening of		Area of extension, mm ²	:					
for field work Lift/throw, mm Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of :		Oscillation per minute corresponding to	:					
Lift/throw, mm Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of Arrangement for varying the opening of Arrangement for varying the opening of Arrangement for varying the opening of Length Arrangement for varying the opening of Length Arrangement for varying the opening of Arrangement for varying the opening of		recommended no load speed of engine						
Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve the sieve Height of lips at max. opening, mm the sieve Length Width Effective cleaning area, mm² Scillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve sample state of the sieve sample sam		for field work						
Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve the sieve Height of lips at max. opening, mm the sieve Length Width Effective cleaning area, mm² Scillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve sample state of the sieve sample sam		Lift/throw, mm	:					
Height of lips at max. opening, mm Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of Arrangement for varying the opening of Height of lips at max. opening, mm Length Length Width Effective cleaning area, mm² Coscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of Height of lips at max. opening method is a second se			:					
Method of varying oscillation Method of drive 1.3.15.3.2 Bottom sieve: No. of sieve Type Coverall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of Arrangement for varying the opening of :								
Method of drive : : : : : : : : : : : : : : : : : : :			:					
No. of sieve: Type: Coverall size of sieve, mm: Length: Width: Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation: Arrangement for varying the opening of:								
No. of sieve Type : Overall size of sieve, mm: Length: Width: Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of:	101500		:					
Type Overall size of sieve, mm: Length: Width: Effective cleaning area, mm²:: Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation: Arrangement for varying the opening of:	1.3.15.3.2		_					
Overall size of sieve, mm: Length: Width: Effective cleaning area, mm²: Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation: Arrangement for varying the opening of:			:					
Length : Width : Effective cleaning area, mm² : Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation : Arrangement for varying the opening of :			:					
Width: Effective cleaning area, mm²:: Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation: Arrangement for varying the opening of:								
Effective cleaning area, mm ² : Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of:			:					
Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of:		_	:					
recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of:			•					
for field work Method of varying oscillation Arrangement for varying the opening of:			•					
Arrangement for varying the opening of :		for field work						
			:					
the sieve		Arrangement for varying the opening of the sieve	:					
1.3.15.4 Blower:	1.3.15.4							
Dia. mm :		Dia. mm	:					
Effective width, mm :		Effective width, mm	:					
No. & type of blade :			:					
Size of blade, mm:		Size of blade, mm:						
Length :								
Width :			:					
Thickness :			:					
Type of drive :			:					
Method of varying the blower speed :			:					
Range of speed corresponding to :			:					
recommended no load speed of engine								
for field work, rpm Method of controlling the air blast :			_					
			-					
No. & type of bearings :		110. & type of bearings	<u> </u>			1		

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1.3.15.5	Grain pan:				
	Type	:			
	Size, mm	:			
	Area, sq. m	:			
	Location	:			
	Inclination (degree) and method of	:			
12156	adjustment (if any)				
1.3.15.6	Tailing pan:				1
	Type Number	:			
	Size, mm	:			
	Location	:			
	Inclination, (degree) and method of				
	adjustment (if any)	•			
	The state of the s				
1.3.16	Grain conveying mechanism:				
1.3.16.1	Bottom grain conveyor:				
	Type	:			
	Size of conveyor (length, dia. and				
	pitch), mm				
	Speed corresponding to recommended	:			
	no load speed of engine for field				
	work,				
	rpm				
	Type of drive	:			
	No. & type of bearings	:			
1.3.16.2	Grain elevator:				
	Type	:			
	Length of elevator, mm	:			
	Outside section, mm	:			
	No. & type of pad	:			
	Size of pads, mm	:			
	Spacing of pads, mm	:			
	Speed corresponding to recommended	:			
	no load speed of engine for field work,				
	rpm				
	Type of chain	:			
	Size of chain (Length, Roller Dia. &	:			
	Pitch), mm	•			
	No. of roller	+-			
		:			
	Elevator drive safety arrangement	:			
	Method of tensioning the chain	:			
	Type of drive	:			
	No. & type of bearings	:			

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1	2	3	4	5	6
1.3.16.3	Upper grain auger:				
	Туре	:			
	Size of auger (Length, Dia. and Pitch),	:			
	mm				
	Speed corresponding to recommended	:			
	no load speed of engine for field work,				
	rpm				
	Drive safety arrangement	:			
	Type of drive	:			
	No. & type of bearings	:			
1.3.17	Tailing conveying mechanism:				
1.3.17.1	Bottom tailing auger:				
	Type	:			
	Size of auger (length, dia. and pitch),	:			
	mm				
	Speed corresponding to recommended	:			
	no load speed of engine for field work,				
	rpm	<u> </u>			
	Type of drive	:			
	No. & type of bearings	:			
1 2 17 2	Drive safety Tailing elevators	:			
1.3.17.2	Tailing elevator:	Τ.			
	Type Length of elevator box, mm	:			
	Outer section, mm	:			
	No. & type of pads	:			
	Size of pads, mm	:			
	Spacing of pads, mm	:			
	Type of chain	:			
	Size of chain (Length, Roller dia. &	:			
	Pitch), mm				
	No. of rollers	:			
	Method of tensioning the chain	:			
	Elevator drive safety arrangement	:			
	Type of drive	:			
	Speed corresponding to recommended				
	no load speed of engine for field work,				
1 2 17 2	rpm Unper tailing august				
1.3.17.3	Upper tailing auger: Type				
	Size (length, dia. and pitch), mm	:			
	Speed corresponding to recommended	:			
	no load speed of engine for field work,	•			
	rpm				
	Type of drive	:			
	No. & type of bearings	:			
	Drive safety	:			
	•		ı		

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1	2	3		4	5	6
1.3.18	Grain tank:	1	T			
	Location	:				
	Capacity:					
	Volume basis, m ³	:				
	Method of agitating the grains in tank	:				
	Size of grain tank opening, mm	:				
	Provision of grain tank cover	:				
	Provision for indication of grain tank	:				
	filling	<u> </u>				
1.3.18.1	Grain conveying auger (Bottom of grain	n tai	nk):			
	Type Size (Length, Dia. & Pitch), mm	; ;				
	Speed corresponding to recommended	:				
	field operation rpm of engine for field	•				
	work, rpm					
	Type of drive	:				
	No. & type of bearings	:				
	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					
	Clearance height, cm	:				
	Speed corresponding to recommended	:				
	no load speed of engine for field work,					
	rpm					
	Type of drive	:				
	No. & type of bearings	:				
	Safety device	:				
1.4	Safety devices provided on the machine	!				
1.4.1 i)	Previous sample:					
ii)						
iii)						
iv)						
v)						
vi)						
vii)						
1.4.2	Present sample:					
i) ii)						
iii)						
iv)						
v)						
vi)						
vii)						
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1.5	Details of operating controls, gauges and in	nst	ruments				
1.5.1	Previous sample:						
i)							
ii)							
i) ii) iii)							
iv)							
v)							
vi)							
vii)							
1.5.2	Present sample:						
i)	1						
ii)							
iii)							
iv)							
v)							
vi)							
vii)							
1	2	3	4		5		6
1.6	Seat:	3	7		3		U
1.0	Make						
	Туре	:					
		:					
	Type of suspension	:					
	Type of dampening	:					
	Horizontal adjustment, mm	:					
1.7	Adjustment of back rest, mm	:					
1.7	Canopy:	_					
	Type	:					
	Canopy size, mm	:					
1.0	Height from operator's platform, mm	:	Working		Working		
1.8	Overall dimensions of combine		Position	<u>Tran</u>	Position	Trans	
	harvester, cm			<u>s port</u> positi		<u>port</u> position	
				on		position	
	Length	:					
	Width	•					
	Height	:					
1.9	Mass:	•					
±•/	Mass of combine harvester with						
	coolant, fuel, lubricants & grain tank						
	(wheat) full and 75 kg mass on the						
	operator's seat, kg						
	Total	:					
	Front	•					
	Rear	•					
1.10	Ground clearance, mm	:					
1.11	Total number of lubricating points:	٠	<u> </u>				
1.11	Grease Nipples/grease holes						
	Greasing cups	:					
	Oiling	_					
	Onnig	:					

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1	2	3	4		5	6
1.12	Colour of combine:					
	Reel and chassis	:				
	Header unit and lower sheet metal	:				
	Upper sheet metal	:				
	Wheel rim	:				
1.13	Header transport trailer					
	Туре	:				
	Size(L×W×H), mm	:				
	No. & type of wheel	:				
	Make	:				
	Size & Ply rating	:				
	Track width (mm)	:				
	Height of trailer hitch in transport position, mm	:				
1.14	Details of labeling plate:					
1.14.1	Previous sample:					
1.14.2	Present sample:					
1.14.2	Present sample:					
1.15						
1.15	Details of labeling plate of prime mover:					
1.15.1	Previous sample:					
1.15.2	Previous sample:					
1.16	Lubricants:					
1.16.1	Previous sample:					
Sr. No.	Particulars	As re	ecommended b applicant	y the	Oil change	period (h)
1	Engine oil					
2	Hydraulic oil and Power steering oil					
3	Transmission and final drive housing oil					
4	Grease					

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1.16.2	Present sample:				
Sr. No.	Particulars	As recommended by the applicant		•	Oil change period (h)
1	Engine oil				
2	Hydraulic oil and Power steering oil				
3	Transmission and final drive housing oil				
4	Grease				

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2. TECHNICAL SPECIFICATIONS FOR 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 rotor 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:	:	
	Diameter of Drive Pulley	:	
	Diameter of Driven pulley	:	
2.4	Spreader:		
	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):		
	Length	:	
	Width	:	
	Height	:	
2.6	Overall Mass (kg)	:	
2.7	SAFETY REQUIREMENT FOR SMS:		
	Guards over all moving parts	:	
	RPM indicator of rotor	:	

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	Overlapping of flail and fixed serrated	:	
	blade (The clearance should be		
	adjustable)		
2.8	Details of labelling plate:		

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SELECTED PERFORMANCE AND OTHER HARACTERISTICS AS PER IS 15806-2018 (TO BE DECLARED BY THE APPLICANT)

S. No		Characteristics	Category (Evaluative/ Non evaluative)	Requirement	Tolerance	Declaration by applicant (Previous sample/Present sample)	Remarks
1		2	3	4	5	6	7
1.	Prin	ne mover performance:					
	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 (Bosch no.) at 80 percent load between the speed at max. power and 55 percent of speed at max. power or 1000 rpm whichever is higher	Evaluative	As per CMV rules.	Nil	-	
	f)	Max. crank shaft torque, (Nm) observed during the test after no load engine speed is adjusted as per manufacturer's recommendation for field work	Evaluative	To be declared by manufacturer	±8%		
	g)	Back up torque, %	Evaluative	7 percent, (Min.)	Nil	-	

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1		2	3	4	5	6	7
	h)	Max. operating temperature	e, °C:				
	i)	Engine oil	Evaluative	To be declared by manufacturer	Nil		The observed value under the high ambient condition should not exceed maximum safe value specified by the oil company which will be provided by the applicant
	ii)	Coolant	Evaluative	To be declared by manufacturer	Nil		The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.
	i)	Lubrication oil consumption, g/kWh	Evaluative	Not exceeding 1 % of specific fuel consumption at maximum power under high ambient condition	Nil		The value would be based on the test conducted under high mbient condition
2. Bı	rake j	oerformance at 24km/h or Ma	ximum Speed	whichever is less			
	a)	Max. Stopping distance at a force equal to or less than 600 N on brake pedal (m) – (cold brake and hot brake)	Evaluative	As per CMV rules.	Nil		
	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		Based on the test conducted, Yes/No as the case may be should beindicated

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1		2	3	4	5	6	7
3. M	echan	ical vibration:				•	
	i)	Operator's platform	Non	120 μm max.	Nil		
			evaluative				
	ii)	Steering wheel	Non	150 μm max.	Nil		
			evaluative				
	iii)	Seat with driver seated	Non	120 μm max.	Nil		
			evaluative				
4. Ai	r clea	ner oil pull over:					•
	i)	Max. oil pull over in percentage when tested in accordance with IS: 8122. (Part-2)-2000	Evaluative	0.20% max.	Nil		
5. No	oise m	easurement:		<u> </u>	<u>l</u>		<u> </u>
	i)	Max. ambient noise emitted by combine at by-stander's position, dB (A)	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. H	eader	Lifting Test:			<u>l</u>		
7 D:		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. Di		limit:	Evolvetive	C11-14	NI:1		
	a)	Thickness of brake lining, mm	Evaluative	Should not exceed the values declared by the manufacturer	Nil		
	b)	Thickness of clutch plate, mm	Evaluative	-do-	Nil		

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8. Fi	ield p	erformance:	•					
	a)	Suitability for crops	Evaluative	(Wheel	type) Paddy (Track			
	b)	Processing losses (%)	Evaluative	Wheat Barley Rice Sorghum Maize Oil seed rape Soya- beans	: Max 3% : Max 4% : Max 3% : Max 4% : Max 4% Max 4% : Max 5%			
	c)	Threshing efficiency	Evaluative	-	: ≥98 % for wheat and paddy	Nil		
	d)	Cleaning efficiency	Evaluative	-	: ≥96 % for wheat and paddy	Nil		
	e)	Grain breakage in main grain tank	Evaluative	-	: ≤ 2.5 %	Nil		
	f)	Non collectable losses	Evaluative	-	: ≤ 2.5 % for wheat, paddy and gram ≤ 4.0 % for soyabe an	Nil		
9. Fi	ield p	erformance for Straw Mana	gement System (If fitted):	•			
	a)	Uniformity of straw spread, CV (Percent)	Evaluative	-	: 20, Max.	-		
	b)	Weighted mean size of chopped straw, cm	Evaluative	-	: 20, Max.	-		

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Saf	fety requirements:					
	Guards against all moving parts/drives and hot part	g Evaluative	Belt and chain drives, pulleys, hydraulic pipes (around ope rators workplace)			As per IS 12239 (Part 1)
b	b) Lighting arrangement	Evaluative	essential as per CMVR	-		
C	c) Grain tank cover	Evaluative	Ess enti al	-		
d	d) Spark arrester in engine' exhaust in cas naturally aspirated engine		Ess enti al	-		
e	e) Stone trap before concave	Evaluative	Essential	-		
f	f) Rear view mirror	Evaluative	Essential	-		
g	g) Fire extinguisher	Evaluative	Essential	-		
h	h) Slip clutch at following drives — i) Cutting platform auger ii) Undershot conveyor drive iii) Grain & tailing elevator	Evaluative Non evaluative Non evaluative	Essential Optional Optional	-		
i	operator platform & ladder & proper gripping for the control levers.	Evaluative	Essential			As per 12239 (Part
j	Working clearance around the controls	Evaluative	Essential 70mm, min	-		As per 12239 (Part
k	k) Labelling of control and gauges and operating controls	Evaluative	Essential	-		As per 6283 (Part 1)

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11.		Material of blades for guards, knife blades and knife back	Non evaluative	Conforming to IS 6024,IS 6025 and IS 10378 respectively	-	-	-
12.		Material of blades for Straw ManagementSystem (SMS)	Non- Evaluative	The flail and fixed blades shall be manufactured from steel having the following chemical composition or such other composition as shall be agreed between the supplier and the purchaser: Carbon: 0.70 to 0.1 % Mnganese: 0.6 to 0.97 % Chrome: 0.1 % Nickle: 0.1 %	-		
13.		Bushes for flail blades	Non- Evaluative	Mild steel	-		
14.		Hardness of flail blades for StrawManagement System (SMS)	Non- Evaluative	Bush section: 20 to 35 HRC Edge section(Hardened zone): 48to 48 HRC Remainder zone: 20 to 35 HRC	-		
15.		Hardness of serratedblades for Straw Management System (SMS)	Non- Evaluative	Bush section: 20 to 35 HRC Edge section(Hardened zone): 48 to 58 HRC Remainder zone: 20 to 35 HRC	-		
16.	Safety Requirements for Straw Management System(if Fitted)						
	a)	Guards against all moving parts/drivesand hot parts	Evaluative	Essential			
	b)	RPM indicator for rotor	Evaluative	Desirable			
	c)	Overlapping of flail and fixed serratedblades	Evaluative	Essential			The clearance of the flail and fixed serrated blades should be adjustable
F	Place:			Signature			-

Place:	Signature
Date:	Name of the applicant
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