



भारत सरकार / Government of India

उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान / Northern Region Farm Machinery Training and Testing Institute

ट्रैक्टर नगर, सिरसारोड, हिसार (हरियाणा) / Tractor Nagar, Sirsa Road, Hisar (Haryana)- 125 001

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[ISO - 9001 : 2015 CERTIFIED]

TECHNICAL SPECIFICATIONS FOR SUGARCANE HARVESTER FOR BATCH/VARIANT/ADMINISTRATIVE/TECHNICAL EXTENSION

1	General:		Previous Sample as per test report No.....	Present Sample	Remarks	
(1)	(2)	:	(3)	(4)	(5)	
1.1	Name & address of manufacturer	:				
	Name & address of applicant	:				
	Make	:				
	Model	:				
	Brand name (if any)	:				
	Type	:				
	Year of manufacture	:				
	Serial Number / Chassis No.	:				
1.2	Prime mover :					
	Make	:				
	Model	:				
	Type	:				
	Serial Number	:				
	Engine speed (Manufacturer's recommended setting) (rpm):					
	Maximum speed at no load	:				
	Low idle speed	:				
	Rated engine speed	:				
	Engine speed corresponding to maximum torque	:				
	No load engine speed recommended for field operation					
	Whether the prime mover has already been tested at recognized testing center (Yes/No)	:				
	If yes, then specify valid test report No. & upload the copy of test report along with Application Form	:				

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1.2.1	Cylinder:				
	Number	:			
	Disposition	:			
	Bore/Stroke, mm	:			
	Capacity, cm ³	:			
	Compression ratio	:			
	Arrangement of valves	:			
	No. of valves	:			
	Type of cylinder liners	:			
	Type of head	:			
	Type of combustion chamber	:			
	Valve clearance in cold (mm):				
	-Inlet	:			
-Exhaust	:				
1.2.2	Fuel System:				
	Type of fuel system	:			
1.2.2.1	Fuel Tank:				
	Capacity, l	:			
	Location	:			
	Material of construction	:			
1.2.2.2	Provision for draining of sediment / water	:			
	Fuel Strainer:				
	Make	:			
	Model & Part No.	:			
1.2.2.3	Location	:			
	Water Separator:				
	Make	:			
	Model/Part No.	:			
	Type	:			
	Number	:			
1.2.2.4	Location	:			
	Capacity, l	:			
	Fuel Filter:				
	Numbers	:			
	Make	:			
	Type	:			
	Model/ Group combination No.	:			
	Capacity of final stage filter, l	:			

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1.2.2.5	Fuel Feed Pump/Low pressure pump:			
	Make	:		
	Model/ Group combination No.	:		
	Type	:		
	Provision of sediment bowl	:		
	Location	:		
	Method of drive	:		
1.2.2.6	Fuel Injection Pump/High pressure pump:			
	Make	:		
	Model/Group combination No.	:		
	Serial number	:		
	Type	:		
	Method of drive	:		
1.2.2.7	Governor:			
	Make	:		
	Model/Group combination No.	:		
	Type	:		
	Part No.	:		
	Serial Number	:		
1.2.2.8	Fuel Injectors:			
	Make	:		
	Model/Group combination No.	:		
	Type	:		
	Injection pressure, kgf/cm ²	:		
	Injection timing, degrees	:		
	Firing order	:		
1.2.3	Air Intake system:			
1.2.3.1	Pre-cleaner:			
	Make	:		
	Type	:		
	Number	:		
	Location	:		
1.2.3.2	Air Cleaner:			
	Make	:		
	Type	:		
	Number	:		
	Location	:		
	Details of Primary filter element:			
	Shape	:		
Diameter (OD/ID), mm	:			

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	Length, mm	:			
	Type of element	:			
	Details of Secondary filter element:				
	Shape	:			
	Diameter (OD/ID), mm	:			
	Length, mm	:			
	Type of element	:			
	Range of suction pressure at max. Power, kPa	:			
	Maintenance Indicator	:			
	Service/maintenance schedule, h	:			
1.2.4	Exhaust System:				
	Make	:			
	Type of silencer	:			
	Size of muffler (L x Dia.), mm	:			
	Location	:			
	Range of exhaust gas pressure at max power, kPa	:			
	Provision of spark arresting device/any other device	:			
	Provision against entry of rain water	:			
1.2.5	Details of turbocharger:				
	Make	:			
	Model	:			
	Number of fan/ wheels	:			
	Number of blades:				
	-Turbine wheel				
	-Compressor fan				
	Method of drive	:			
	Means of lubrication	:			
1.2.6	Exhaust treatment system:				
1.2.6.1	Exhaust Gas Recirculation System (EGR):				
	Make	:			
	EGR description	:			
	Part No.	:			
	Location	:			
1.2.6.2	Diesel Oxidation Catalyst (DOC):				
	Make	:			
	DOC description	:			
	Part No.	:			
	Location	:			

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1.2.6.3	Selective Catalytic Reduction (SCR):			
	Make	:		
	Description	:		
	Part No.	:		
	Location	:		
1.2.6.4	Details of Diesel Exhaust fluid tank:			
	Capacity, l	:		
	Location	:		
	Material of construction	:		
	Provision for draining	:		
	Recommended diesel exhaust fluid	:		
1.2.7	Intercooler/charge Air cooler:			
	Type	:		
	Make	:		
	Model/part No.	:		
	No. of Tubes	:		
	Overall size, mm	:		
	Capacity, l	:		
	Material of construction	:		
	Location	:		
1.2.8	Lubrication system:			
	Type	:		
	Type of oil pump	:		
	Method of drive	:		
	Oil sump capacity, l	:		
	Total lube. oil capacity, l	:		
	Recommended grade of lube oil	:		
	Lube oil change period, h	:		
1.2.8.1	Oil filters:			
	Type	:		
	Make	:		
	Part No.	:		
	Number	:		
	Location	:		
	Oil filter capacity, l	:		
	Relief valve pressure setting, kPa	:		
	Minimum permissible pressure, kPa	:		
	Recommended service schedule, h	:		
	Method of oil cooling	:		

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1.2.8.2	Details of oil cooler (if provided):				
	Type	:			
	Make	:			
	Model	:			
1.2.9	Cooling system:				
	Type	:			
	Coolant recommended	:			
1.2.9.1	Coolant /water pump:				
	Make	:			
	Type	:			
	Size of impeller Dia., mm	:			
	No. of guide Vanes	:			
	Method of drive	:			
	Pump speed corresponding to rated engine speed, rpm	:			
1.2.9.2	Details of fan:				
	Make	:			
	Type	:			
	No. of blades	:			
	Material	:			
	Dia. of fan, mm	:			
	Means of temperature control	:			
Total coolant capacity, l	:				
1.2.9.3	Radiator:				
	Make	:			
	Overall size of radiator (W x H x T), mm	:			
	No. of tubes	:			
	Material of radiator core	:			
	Type of radiator cap	:			
	Radiator cap pressure, kgf/cm ²	:			
	Type of thermostat	:			
	Bare radiator capacity, l	:			
	Capacity of coolant reservoir, l	:			
	Total coolant capacity, l	:			
	Coolant water ratio	:			
	Type of radiator grill	:			
	Method of grill cleaning	:			
Method of mounting	:				

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1.2.10	Details of hydraulic oil cooler:				
	Number	:			
	Make	:			
	Type	:			
	Model/part no.	:			
	No. of Tubes	:			
	Overall size, mm	:			
	Material of construction	:			
	Location	:			
1.3	Electrical System:				
1.3.1	Starting System:				
	Type	:			
	Any aid for cold starting	:			
	Any other device provided for easy starting	:			
1.3.2	Battery:				
	Make	:			
	Numbers	:			
	Type	:			
	Capacity (V) and rating (Ah)	:			
	Location	:			
1.3.3	Starter Motor:				
	Make	:			
	Type	:			
	Model	:			
	Capacity (V) and rating (kW)	:			
	Serial no.	:			
	Location	:			
1.3.4	Alternator:				
	Make	:			
	Model	:			
	Serial No.	:			
	Output rating (V & A)	:			
	Location	:			
	Method of drive	:			
1.3.5	Voltage Regulator:				
	Make	:			
	Type	:			
	Capacity	:			

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1.3.7	Reverse Warning Alarm				
	Make	:			
	Type	:			
	Number	:			
	Capacity, V	:			
	Location	:			
1.3.8	Horn:				
	Make	:			
	Type	:			
	Number	:			
	Location	:			
1.3.9	Circuit breaker/ Details of fuse box:				
	Location	:			
1.3.10	Details of other electrical Accessories:				
i)		:			
ii)		:			
iii)		:			
1.4	Wheel Equipment:				
1.4.1	Drive wheels:				
	Make	:			
	Type	:			
	Location	:			
	Number, Size & Ply rating	:			
	Recommended tyre pressure, kPa	:			
	Maximum permissible loading capacity of each tyre @ ----- kPa pressure, (kgf)	:			
	Track width, mm	:			
	Make and size of rim	:			
	Standard ballast on each wheel (if any), kg	:			
1.4.2	Steered wheels:				
	Make	:			
	Type	:			
	Location	:			
	Number, Size & Ply rating	:			
	Recommended tyre pressure, kPa	:			
	Maximum permissible loading capacity of each tyre @ ----- kPa pressure, kgf	:			
	Track width, mm	:			
	Make and size of rim	:			

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1.4.3	Wheel base (mm)	:			
1.5	Transmission System:				
	Type	:			
	Make	:			
	Model	:			
	No. of speeds	:			
	Method of control	:			
	Lube oil capacity, l	:			
	Recommended grade of lubrication oil	:			
Oil change period, h	:				
1.5.1	Final drive:				
	Make	:			
	Type	:			
	Reduction ratio	:			
	Location	:			
	Lube oil capacity, l	:			
	Recommended grade of lubrication oil	:			
	Oil change period, h	:			
1.5.2	Nominal speed:				

Movement	Position of traction lever	No. of engine revolutions for one revolution of driving wheel	No. of engine revolutions for one revolution of driving wheel	Nominal speed at rated engine speed of ----- rpm when fitted with-----size of tyre of ---- mm rolling radius index, (kmph)	Nominal speed at rated engine speed of ----- rpm when fitted with-----size of tyre of ---- mm rolling radius index, (kmph)	Remark
		Previous sample	Present sample	Previous sample	Present sample	
Forward	Maximum					
Reverse	Maximum					

(1)	(2)	:	(3)	(4)	(5)
1.5.3	Brakes:				
1.5.3.1	Service Brake:				
	Make	:			
	Type	:			
	Size of brake disc (OD/ID), mm	:			
	Area of lining per wheel, cm ²	:			
	No. of disc per wheel	:			

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	Location	:			
	Over all thickness of disc, mm	:			
	Method of operation	:			
1.5.3.2	Parking Brake:				
	Make	:			
	Type and location	:			
	Method of operation	:			
1.6	Steering System:				
	Make	:			
	Type	:			
	Pump	:			
	Method of operation	:			
	Outer diameter of steering control wheel, mm	:			
	Location	:			
1.7	Hydraulic System:				
1.7.1	Pump:				
1.7.1.1	Main Pump Unit:				
	Type	:			
	Make	:			
	Part no.	:			
	Number of pump	:			
	Function	:			
	Location	:			
1.7.1.2	Tandem pump:				
	Type	:			
	Make	:			
	Model	:			
	Number of pump	:			
	Function	:			
	Location	:			
1.7.1.3	Transmission Pump Unit:				
	Type	:			
	Make	:			
	Model	:			
	Number of pump	:			
	Function	:			
	Location	:			

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1.7.2	Hydraulic Tank:				
	Type & material	:			
	Location	:			
	Capacity, l	:			
	Provision of breather	:			
	Provision for oil level indication	:			
	Recommended grade of oil	:			
	Recommended oil change period, h	:			
1.7.3	Hydraulic Filter:				
	Number(s)	:			
	Type and its location	:			
	Recommended service schedule, h	:			
1.7.4	Hydraulic cylinders, their numbers, type and locations:				
	-For Topper up-down	:			
	-For Crop divider up-down	:			
	-For Base cutter level	:			
	-For base cutter level adjustment	:			
	-For steering	:			
	-For elevator slew (LH & RH movement)	:			
	-For elevator up-down	:			
	-For bin flap	:			
	Hydraulic Safety	:			
1.8	Topper Assembly:				
	Function	:			
	Type	:			
	Diameter of disc with blade, mm	:			
	No. of disc unit	:			
	Method of drive	:			
	Details of Cutting disc:				
	No. of cutting blades per disc	:			
	Size of cutting blade (mm):				
	-Height	:			
	-Width at top	:			
	-Width at base	:			
	-Thickness	:			

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Method of mounting of cutting blade	:			
Method of drive	:			
Details of Hydraulic Motors:				
Cutting Disc Motor:				
Make	:			
Part No.	:			
Serial No.	:			
Location	:			
Details of movement of knife blade:				
Cutting disc speed corresponding to no load engine speed ----- rpm recommended for field work, rpm	:			
Arrangement of speed variation, if any	:			
Arrangement of vertical movement of de-topper arm	:			

Cutting height from Ground Level (mm):				
-Minimum	:			
-Maximum	:			
Arrangement of laterally swing movement of de-topper arm	:			
Range of lateral movement, mm	:			
Any Arrangement for locking the de-topper assembly in raised position	:			
Hydraulic safety if any	:			

1.9	Crop divider:			
	Type	:		
	No. of crop divider	:		
	Spacing of crop divider shoe, mm	:		
	Size (mm):			
	-Length	:		
	-Diameter (Top/Middle/Bottom)	:		
	-Pitch	:		
Range of vertical movement from Ground Level, mm	:			

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	Method of vertical height adjustment	:			
	Lateral movement (if any)	:			
	Direction of rotation:				
	Inner crop divider/roller	:			
	Outer crop divider/roller	:			
	Speed corresponding to no load engine speed ----- rpm recommended for field work (rpm):	:			
	Inner crop divider/roller	:			
	Outer crop divider/roller	:			
	Method of drive	:			
	Details of Hydraulic Motors:				
	Make	:			
	Part No.	:			
	Numbers	:			
	Location	:			
	Method of mounting	:			
	Safety mechanism	:			
	Any Arrangement for locking the sugarcane harvester header assembly in raised position	:			
	Hydraulic safety if any	:			
1.10	Knockdown Roller:				
	Type	:			
	Number	:			
	Size (mm):				
	-Overall length	:			
	-Overall dia.	:			
	No. of rows of combs and their arrangement	:			
	Size of comb (mm):				
	-Height	:			
	-Base width	:			
	-Total height from base	:			
	-Spacing	:			
	Numbers	:			
	Method of drive	:			
	Details of hydraulic motors:				
	Make (apa)	:			

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	Part No.	:			
	Serial no.	:			
	Numbers	:			
	Location	:			
	Speed corresponding to no load engine speed-----rpm recommended for field work, rpm	:			
	Method of vertical and horizontal Adjustment	:			
	Range of vertical movement, mm	:			
	Horizontal movement, mm	:			
	Method of mounting	:			
	Drive safety (if any)	:			
1.11	Finned Roller:				
	Type	:			
	Number	:			
	Size (Overall length x Max. Dia.), mm	:			
	No. of rows of combs and their arrangement	:			
	Size of comb (Height x Pitch) , mm	:			
	Number	:			
	Details of drive	:			
	Details of Hydraulic motors:				
	Make	:			
	Product No.	:			
	Serial No	:			
	Numbers	:			
	Location	:			
	Speed corresponding to no load engine speed -----rpm recommended for field work, rpm	:			
	Method of vertical and horizontal Adjustment	:			
	Method of mounting	:			
	Hydraulic safety (if any)	:			

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1.12	Base Cutter assembly:				
	Type	:			
	No. of Disc	:			
	Tilt angle of disc, degrees	:			
	Arrangement for changing disc angle	:			
	Number, type of blades and their arrangement	:			
	Size of blades (L x W x T), mm	:			
	Cutting width(mm):				
	-Without blade	:			
	-With blade	:			
	Speed corresponding to no load engine speed ----- rpm recommended for field work, rpm	:			
	Arrangement for speed variation (if any)	:			
	Arrangement for reversal of rotation	:			
	Arrangement of cutting height adjustment	:			
	Range of height adjustment from Ground Level (mm):				
	-Minimum	:			
	-Maximum	:			
	Method of mounting of base cutter assembly	:			
	Details of drive	:			
	Details of Hydraulic motors:				
	Make	:			
	Part No.	:			
	Serial No.	:			
	Numbers	:			
	Location	:			
	Details of Gearbox:				
	Make	:			
Type	:				
Reduction ratio	:				
Oil capacity, l	:				
Recommended oil grade	:				
Oil changing period, h	:				
Mechanism to indicate the cutting height of base cutter	:				

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	to the operator inside the cabin			
	Hydraulic safety	:		
	Other safety mechanism if any	:		
1.13	Butt lift roller:			
	Type	:		
	Size (L x Dia.), mm	:		
	Max. paddle height, mm	:		
	Speed corresponding to no load engine speed ----- rpm recommended for field work, rpm	:		
	Adjustments (if any)	:		
	Details of drive	:		
	Details of Hydraulic motors:			
	Make	:		
	Part No.	:		
	Serial No.	:		
	Numbers	:		
	Location	:		
	Method of mounting	:		
Hydraulic safety	:			
1.14	Feed rollers:			
	Type	:		
	Number (s)	:		
	Size (L x Dia.), mm	:		
	Speed corresponding to no load engine speed ----- rpm recommended for field work, rpm:	:		
	Details of drive	:		
	Details of Hydraulic motors:			
	Make	:		
	Part No.	:		
	Serial No.	:		
	Numbers	:		
	Adjustments (if any)	:		
	Method of mounting	:		
	Hydraulic safety	:		

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1.15	Chopper drum assembly:				
	Type	:			
	No. of drum per chopper unit	:			
	Size of drum (Working Dia. X Width), mm	:			
	Type of blade	:			
	Arrangement of blades	:			
	Size of blade (L x W x T), mm	:			
	No. of blades and spacing, mm	:			
	Type of drive	:			
	Details of Hydraulic motors:				
	Make	:			
	Part No.	:			
	Serial No.	:			
	Numbers	:			
	Location	:			
	Method of mounting	:			
	Chopper gearbox oil capacity, l	:			
	Recommended grade of oil	:			
	Oil change period, h	:			
	Balancing flywheel size, mm	:			
Speed corresponding to no load engine speed ----- recommended for field work, rpm	:				
Any method of reversal direction movement	:				
Method of speed variation	:				
Safety mechanism	:				
Method of adjustment of cutting clearance and its range of adjustment in, mm	:				
1.16	Deflector Plate:				
	Size, mm	:			
	Location	:			
1.17	Elevator Bowl:				
	Shape	:			
1.18	Elevator:				
	Type	:			
	Overall length, mm	:			

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Number of pads/elevator flight	:			
Size of pads/elevator flight, mm	:			
Spacing between the pads, mm	:			
Type of chain	:			
Details of chain:				
Total length, mm	:			
No. of rollers	:			
No. of links	:			
Roller dia., mm	:			
Pitch, mm	:			
Method of tensioning the chain	:			
Type of drive	:			
Elevator sieve/separating grate:				
Type	:			
Total area of sieve, m ²	:			
Horizontal reach (Min. & Max.), mm	:			
Discharge height above ground level (Min. & Max.), mm	:			
Clearance height (Min. & Max.), mm	:			
Method of vertical movement of elevator	:			
Range of vertical movement at top of elevator from GL (Min. & Max.), mm	:			
Method of horizontal swing movement	:			
Range of horizontal swing	:			
Provision to watch continuous operation of elevator from operator seat	:			
Speed corresponding to no load engine speed -----	:			
Arrangement of leveling/controlling elevator feed	:			
Drive safety mechanism (if any)	:			

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1.19	Bin flap:				
	Type	:			
	Size L x W x T), mm	:			
	Adjustments (if any)	:			
1.20	Extractor Fan:				
	Type	:			
	Number and their location	:			
	Working Diameter	:			
	No. of blades	:			
	Size of fan blade (L x W x T), mm	:			
	Opening area of Extractor unit, m ²	:			
	Type of drive	:			
	Details of Hydraulic Motors:				
	Make	:			
	Model/ Part No.	:			
	Numbers	:			
	Arrangement of speed variation	:			
	Arrangement for changing direction of extractor outlet	:			
	Speed corresponding to no load engine speed ----- rpm as recommended for field work (Min. & Max.), rpm	:			
	Range of movement of extractor outlet from centre of harvester, degrees	:			
Location	:				
Hydraulic safety	:				
1.21	Operators control and instrumentation:				
1.21.1	Details of Instrument cluster	:			
1.21.2	Details of controls	:			
1.22	Operators' cabin				
	Make	:			
	Model	:			
	Material	:			
	Dimensions, mm	:			

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	Height of operator's platform for Ground Level, mm	:			
	Cabin cooling/heating arrangement	:			
1.23	Operator's seat				
	Make	:			
	Model	:			
	Type	:			
	Type of suspension	:			
	Type of dampening	:			
	Details of adjustments	:			
1.24	Details of air conditioning system:				
1.24.1	Compressor:				
	Make	:			
	Model	:			
	Serial no.	:			
	Refrigerant	:			
	Location	:			
	Drive	:			
1.24.2	Condenser unit:				
	Fan	:			
	Condenser:				
	Size, mm	:			
	No. of tube	:			
	Location	:			
1.24.3	Evaporator & blower unit				
	Evaporator:				
	Type	:			
	Size, mm	:			
	Blower:				
	Make	:			
	Model	:			
	Number of blower	:			
	Size (Dia. x Length), mm	:			
Location	:				
1.25	Provision for safety and comfort of operator:				
i)					
ii)					
iii)					

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1.26	Labeling plate:				
1.27	Total number of lubricating points:				
	-Greasing points		:		
	-Oiling points		:		
1.28	Overall dimensions (mm):			Transport position	Working position
	-Length		:		
	-Width		:		
	-Height		:		
	Ground clearance		:		
(1)	(2)	:	(3)	(4)	(5)
1.29	Mass (kg):				
	Mass of harvester with coolant, fuel, lubricants full and 75 kg mass on operator's seat				
	-Total		:		
	-Front		:		
	-Rear		:		
1.30	Colour of Harvester:				
	Cabin and Radiator door, hydraulic oil coolers		:		
	Crop divider, Chassis, sheet metal, and elevator		:		
	Wheel rim		:		

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**2. SELECTED PERFORMANCE AND OTHER CHARACTERISTICS AS PER
IS: 15806-2018.**

Though the IS: 17626-2021 does not have “Selected performance and other characteristics”, to give a fair idea regarding the performance of Sugarcane harvester, the “Selected Performance and other characteristics” adopted from IS: 15806-2018, is reproduced below for information. However, it is informed that “Selected Performance and other characteristics” are not applicable to Sugarcane harvester.

S. No.	Characteristics	Category (Evaluative / Non evaluative)	Requirement	Tolerance	Declaration by applicant (Previous/Pre sent sample)	Remark	
1	2	3	4	5	6	7	
1.	Prime 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	± 5 % of declared value		
	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	± 5 % of declared value		
	c)	Power at rated engine speed, kW (under natural ambient condition)	Non-evaluative	To be declared by manufacturer	± 5 % of declared value		
	d)	Specific fuel consumption corresponding to average maximum power under 2 h maximum power test, g/k Wh.	Evaluative	To be declared by manufacturer	+5 % of declared value		
	e)	Max. Smoke density at 80 % load between the speed at max. Power & 55 % 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 % of declared value		
	g)	Back up torque, %	Evaluative	7 % min.	Nil		

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1	2	3	4	5	6	7
	h) Max. Operating temperature (°C):					
	i) Engine oil	Evaluative	To be declared by manufacturer	Nil		
	ii) Coolant I	Evaluative	To be declared by manufacturer	Nil		
	i) Lubrication oil consumption, g/kWh	Evaluative	Not exceeding 1 % of SFC at maximum power (high ambient)	Nil		
2.	Brake performance at 24 km/h or maximum 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) CMVR does not prescribe hot brake	Evaluative	As per requirement of CMVR	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 per requirement of CMV Rules	--		
3.	Mechanical vibration:					
	a) Operator's platform	Non evaluative	120 µm max.	Nil		
	b) Steering wheel	Non evaluative	150 µm max.	Nil		
	c) Seat with driver seated	Non evaluative	120 µm max.	Nil		
4.	Air cleaner oil pull over:					
	a) Air cleaner oil pull over in % when tested in accordance with IS: 8122 part (II) 2000	Evaluative	0.20 max	Nil		
5.	Noise measurement					
	a) Max. ambient noise emitted by sugarcane harvester at bystander's position, dB (A)	Evaluative	88 dB (A) as per CMVR	Nil		
	b) Max. noise at operator's ear level, dB (A)	Evaluative	98 dB (A) as per CMVR	Nil		

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1	2	3	4	5	6	7
6.	Hydraulic Test/ Lifting test of different units:					
	a)	Satisfactory completion of base cutter, topper and crop divider	Evaluative	-	Nil	
7.	Discard limit:					
	a)	Thickness of brake disc, mm	Evaluative	1.17	--do--	
	b)	Thickness of clutch plate, mm	Evaluative	NA	--do--	
8.	Safety requirement:					
	a)	Guards against all moving parts	Evaluative	Belt and chain drives pulleys hydraulic pipes around operators work place	-	
	b)	Lighting arrangement	Evaluative	As per CMVR	-	
	c)	Spark arrester in engine's exhaust in case naturally aspirated engine	Evaluative	Essential	-	
	d)	Rear view mirror	Evaluative	Essential	-	
	e)	Fire extinguisher	Evaluative	Essential	-	
	f)	Anti slip surfaces at operator platform & ladder & proper gripping for the control levers.	Evaluative	Essential	-	
	g)	Labeling of control and gauges	Evaluative	Essential	-	

Place:

Signature-----

Date:

Name of the applicant-----

Designation-----

Address-----

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