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)- 125 001
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TECHNICAL SPECIFICATIONS FOR BRUSH CUTTER

1	**General:**		
	Name of machine	:	
	Type of machine	:	
	Name of manufacturer and address	:	
	Name of applicant and address	:	
	Make	:	
	Model	:	
	Sr. No.	:	
	Brand's Name	:	
	Country of origin	:	
	Year of manufacture	:	
	Recommended use	:	
2	**Details of prime mover:**		
	Manufacturer	:	
	Make	:	
	Model	:	
	Type	:	
	Serial No.	:	
	Year of manufacture	:	
	Country of origin	:	
	Maximum power, kW (Ps)	:	
	Recommended high idle speed, rpm	:	
	Recommended low idle speed, rpm	:	
	Rated engine speed, rpm	:	
	Speed at maximum torque, rpm	:	
	Recommended no load engine speed for field operation, rpm	:	
	Whether the prime mover has already been tested by authorized testing centre (Yes/No)	:	
	If yes, then specify the valid test report No. & upload copy of test report	:	
3	**Cylinder and cylinder head:**		
	Number	:	
	Disposition	:	
	Bore/stroke, mm	:	
	Capacity, cc	:	
	Make of carburetor	:	
	Type of carburetor	:	

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	Make of spark plug	:	
	Model of spark plug	:	
	Spark plug electrode gap, mm	:	
4	**Fuel supply system:**		
	Type of fuel system	:	
	Material of fuel tank	:	
	Capacity of fuel tank, l	:	
	Location of fuel tank	:	
	Type of fuel filter	:	
	Fuel on/off	:	
5	**Air cleaner:**		
	Make	:	
	Type	:	
	Type of element	:	
	Location	:	
	Recommended service schedule, h	:	
6	**Exhaust system:**		
	Type of silencer	:	
	Position of silencer	:	
7	**Lubrication system:**		
	Type	:	
	Type of lubricant recommended	:	
	Ratio of mixing of lube. Oil with fuel	:	
8	**Cooling system:**		
	Type	:	
9	**Starting system:**		
	Type	:	
	Ignition system	:	
	Aid for cold starting	:	
	Any other provision for easy starting	:	
10	**Transmission system:**		
	Type	:	
	Mode of power transmission	:	
	No. of teeth on pinion gear	:	
	No. of teeth on crown	:	
	Reduction ratio	:	
	Method of lubrication	:	
11	**Cutting attachments:**		
	Cutter speed corresponding to engine speed recommended for field operation, rpm	:	
11.1	**Nylon rope:**		
	Material	:	
	Rope size, mm	:	
11.2	**Triangular blade:**		
	Material	:	
	Diameter, mm	:	
	Width at tips, mm	:	
	Width of beveled edge, mm	:	

	Thickness at tip, mm	**:**	
12	**Safety provisions:**	:	
13	**Overall dimensions, mm:**		
	Length (with nylon rope assembly)	**:**	
	Length (with triangular blade assembly)	**:**	
	Width	**:**	
	Height	**:**	
14	**Mass, kg:**		
	Without cutters and guard	**:**	
	With circular disc paddy cutter attachment	**:**	
	With triangular blade and grass deflector	**:**	
	With nylon rope and grass deflector	**:**	
15	**Color of machine:**		
	Engine	**:**	
	Chassis	**:**	
	Fuel tank	**:**	
16	**Marking/Labeling plate:**	**:**	

ADDITIONAL INFORMATION

1.	**Engine Performance:**		
i.	Maximum Power, kW (Ps)	**:**	
ii.	Rated Power, kW(Ps)	**:**	
iii.	Specific fuel consumption corresponding to maximum power, kg/kWh (g/hph)	**:**	
iv.	Maximum equivalent crankshaft torque, Nm (kgf-m)	**:**	
v.	Back-up torque (%)	**:**	
vi.	Maximum Engine oil temperature, ºC	**:**	
vii.	Maximum Coolant (water)/liner wall temperature (ºC)	**:**	
viii.	Lubricating oil consumption (g/kWh)	**:**	
ix.	Coolant consumption (% of total Coolant capacity)	**:**	
x.	Smoke level (Bosch No.)	**:**	
2.	Mechanical Vibration at steering/ hands	**:**	
3.	Air cleaner-oil pullover:		
	-Maximum oil pull-over (%)	**:**	
4.	**Noise level:**		
	-Maximum ambient noise level, dB(A)	**:**	
	-Maximum noise level at the Operator's ear level, dB(A)	**:**	

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Sl. No.	Critical engine components	Initial Setting	Discard Limit
1	Cylinder bore dia. (mm)		
2	Piston to cylinder clearance at skirt (mm)		
3	Piston dia. (mm)		
4	**Ring-end gap (mm):**		
	-Top compression ring		
	-2nd compression ring		
	-3rd compression ring		
	- Oil ring		
5	**Ring groove clearance (mm):**		
	-Top compression ring		
	-2nd compression ring		
	-3rd compression ring		
	- Oil ring		
6	**Clearance of big end bearings (mm):**		
	- Diametrical		
	- Axial		
7	Crankshaft end float (mm)		
8	Backlash of timing gears (mm)		
9	Backlash of primary gear box gears (mm)		
10	Backlash of secondary gear box gears (mm)		
11	Overall thickness of clutch plate (mm)		
12	**Spring stiffness, N/mm (kgf/mm):**		
	-Inlet		
	-Exhaust		
13	**Clearance between valve guide and valve Stem (mm):**		
	-Inlet		
	-Exhaust		

Date:
Place:

Signature:
Name of signatory:
Designation:
Name & address of firm:

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