



भारत सरकार /GOVERNMENT OF INDIA

उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Northern Region Farm Machinery Training and Testing Institute

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TECHNICAL SPECIFICATIONS FOR ENGINE OPERATED POST HOLE DIGGER/AUGER

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	:	
	Recommended high idle speed, rpm	:	
	Recommended low idle speed, rpm	:	
	Recommended rated speed for field operation, rpm	:	
	Speed at maximum torque, rpm	:	
	Whether the prime mover has already been tested by authorized testing centre (Yes/No)	:	
If yes, then specify the valid test report	:		

Name of the Manufacturer/ Applicant	Document No, if any Revision status	Name of the Test Agency: NRFMTTI,Hisar
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	No. & upload copy of test report		
3	Cylinder and cylinder head:		
	Number	:	
	Disposition	:	
	Bore/stroke, mm	:	
	Capacity, cc	:	
	Make of spark plug	:	
	Model of spark plug	:	
	Spark plug electrode gap, mm	:	
4	Fuel supply system:		
	Material of fuel tank	:	
	Capacity of fuel tank, (l)	:	
	Location of fuel tank	:	
	Type of fuel filter	:	
	Provision of fuel on/off cock	:	
	Make of carburetor	:	
	Serial No.	:	
	Type of carburetor	:	
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 lubricating oil with fuel (if applicable)	:	
	Minimum recommended engine oil pressure, kg/cm ² (if applicable)	:	
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	:	

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11	Gear box:		
	No. of teeth on drive gear (Input shaft)	:	
	No. of teeth on driven gear (Counter shaft)	:	
	No. of teeth on drive gear of counter shaft	:	
	No. of teeth on driven gear of output shaft	:	
	Reduction ratio	:	
	Type of lubricant used	:	
	No. & type of bearing	:	
12	Auger:		
	Numbers	:	
	Size, mm	:	
	Type	:	
	Material	:	
	Size of auger pipe, (mm) (L × D)	:	
	Method of fixing	:	
	Auger rpm @ rated engine speed recommended for field operations	:	
13	Auger blades:		
	Numbers	:	
	Size of blade, mm	:	
	Dia. with auger blade	:	
	Material	:	
	Width of beveled edge	:	
	Method of fixing	:	
13.1	Auger bit		
	Numbers	:	
	Material	:	
	Dimensions (mm):		
	Length	:	
	Dia.	:	
	Method of fixing	:	
14	Details of main handle	:	
15	Details of controls	:	
16	Overall dimensions (mm):		
	Length	:	
	Width	:	
	Height (with auger blade assembly)	:	
17	Mass (kg)	:	
18	Colour of machine:		
	-Engine	:	
	-Chassis	:	

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	-Engine cover	:	
	-Fuel tank	:	
19	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 (°C)	:	
vii.	Maximum Coolant (water)/liner wall temperature (°C)	:	
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		
	-2 nd compression ring		
	-3 rd compression ring		
	- Oil ring		
5	Ring groove clearance (mm):		
	-Top compression ring		
	-2 nd compression ring		
	-3 rd 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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