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Ministry of Agriculture and Farmers Welfare  
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Department of Agriculture, Cooperation and Farmers Welfare  
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FARM MACHINERY TRAINING & TESTING INSTITUTE (NER)  
बिश्ननाथ चारिआलि, बिश्ननाथ – असम  
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An I.S.O. 9001- 2015 Certified Institute



## **SPECIFICATION OF BRUSH CUTTER**

### **1.1 General specification of machine**

Make :

Model :

Manufacturer :

Name of Applicant :

Name of the Machine :

Indian trade name :

Year of manufacture :

Country of origin :

Type of crops /bush recommended by :

### **1.2 Prime mover/ Engine (as per applicant)**

1.2.1 Manufacturer :

1.2.2 Make :

1.2.3 Model :

1.2.4 Type :

1.2.5 Year of manufacture :

1.2.6 Sl. No. :

1.2.7 Country of origin :

- 1.2.8 Recommended high idle speed, (rpm) :
- 1.2.9 Recommended low idle speed, (rpm) :
- 1.2.10 Recommended rated speed, (rpm) :
- 1.2.11 Speed at maximum torque, (rpm) :
- 1.2.12 Maximum power : .....kW @..... rpm
- 1.2.13 Torque corresponding to  
Maximum power, (Nm) :
- 1.2.14 Specific fuel consumption  
corresponding to Maximum Power,  
(g/kWh) :
- 1.2.15 Rated power : .....kW @..... rpm
- 1.2.16 Torque corresponding to rated power,  
( Nm) :
- 1.2.17 Specific fuel consumption at rated  
power,  
(g/kWh) :
- 1.2.18 Maximum torque : .....Nm@..... rpm
- 1.2.19 Lubricating oil consumptions,( g/kwh) :
- 1.2.20 Maximum permissible engine oil  
temperature, (°C) :

### 1.2.21

Sl.No.	Parts/component	Initial value (When in new condition),(mm)	Discard limit (mm)
i)	Cylinder bore diameter		
ii)	Clearance between cylinder liner and piston (at top)		
iii)	Piston ring end gap		
	- Top ring		
	- 2 <sup>nd</sup> ring		
	- Oil ring		
iv)	Piston ring groove clearance		
	- Top ring		
	- 2 <sup>nd</sup> ring		
	- Oil ring		
v)	Clearance of big end bearing		
	- Diametrical		
	- Axial		
vi)	Clearance of main bearing		
	- Diametrical		
	- Crane shaft end float		

## **Cylinder and Cylinder head**

Number :

Disposition :

Bore/stroke, (mm) :

Capacity (cc) :

Valve clearance, (mm)

Inlet :

Exhaust :

Make of Carburetor :

Type of Carburetor :

Brief description of carburetor :

Make of Spark plug :

Type of Spark plug :

Brief description of Spark plug :

Electrode gap of Spark plug :

## **Fuel supply system**

Type of fuel system :

Material of Fuel tank :

Capacity of fuel tank (l) :

Location of fuel tank :

Provision for draining of sediments/  
water :

Fuel filters :

Fuel ON/OFF :

<b>1.5</b>	<b>Air cleaner</b>	
	Make	:
	Type	:
	Type of element	:
	Location	:
	Recommended service Schedule	:
<b>1.6</b>	<b>Exhaust</b>	
	Type of silencer	:
	Position of silencer	:
	Spark arresting device, if any	:
<b>1.7</b>	<b>Lubrication system</b>	
	Type	:
	Oil capacity (l)	:
	Oil change period (h)	:
<b>1.8</b>	<b>Cooling system</b>	
	Type	:
<b>1.9</b>	<b>Starting system</b>	
	Type	:
	Ignition system	:
	Aid for cold starting	:
	Any other provision for easy starting	:
<b>1.10</b>	<b>Cutter assembly</b>	
	Type	:
	No of teeth	:
	Overall Diameter of disc (mm)	:
	Root diameter of disc (mm)	:
	Thickness,(mm)	:

- 1.11 Rope**
  - Length of rope(mm) :
  - Dia of rope (mm) :
- 1.12 Details of control**
  - i) On/off switch provided on RHS :
  - ii) Handle grip provided on both side :
  - iii) Accelerator Throttle lever is provided on RHS :
  - iv) Throttle accelerator safety gauged is provided :
- 1.13 Overall dimensions (mm)**
  - Length :
  - Width :
  - Height :
  - Mass (kg) :
- 1.18 Color of machine**
  - Chassis :
  - Engine :
  - Main drive cover :
  - Transmission system Cover :
  - Fuel tank :

Place: .....

Dated: .....

Signature:.....

Name:.....

Designation:.....

Address:.....