1. SPECIFICATIONS

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 :

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Signature : | Make : | Signature :
Name : | Model : | Name :
Designation : | Sheet No. _______ of ______ | Designation :
Date : | | Date :
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): 

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1.2.21

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Parts/component</th>
<th>Initial value (When in new condition), (mm)</th>
<th>Discard limit (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i)</td>
<td>Cylinder bore diameter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>Clearance between cylinder liner and piston (at top)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>Piston ring end gap</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Top ring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 2nd ring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Oil ring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td>Piston ring groove clearance</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Top ring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- 2nd ring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Oil ring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>v)</td>
<td>Clearance of big end bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Diametrical</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Axial</td>
<td></td>
<td></td>
</tr>
<tr>
<td>vi)</td>
<td>Clearance of main bearing</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Diametrical</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Crane shaft end float</td>
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1.3 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 : 

1.4 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 : 

1.5 Air cleaner
Make : 
Type : 
Type of element : 

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Location : 

Recommended service Schedule : 

1.6 **Exhaust**

Type of silencer : 

Position of silencer : 

Spark arresting device, if any : 

1.7 **Lubrication system**

Type : 

Oil capacity (l) : 

Oil change period (h) : 

1.8 **Cooling system**

Type : 

1.9 **Starting system**

Type : 

Ignition system : 

Aid for cold starting : 

Any other provision for easy starting : 

1.10 **Transmission system**

1.10.1 **Crankshaft to intermediary shaft**

Type of drive : 

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SPECIFICATIONS OF POWER WEEDER/ROTARY WEEDER (Engine upto 3.5kW)

V belt size, (mm) : 

Size of pulley, (mm) :
- Drive :
- Driven :

Reduction ratio :

Type of main clutch :

Size of idler pulley, (mm) :

1.10.2 Intermediary shaft to rotary tiller shaft :
Location of drive :

Method of drive :

No. of teeth of drive sprocket :

No. of teeth of driven sprocket :

Reduction ratio :

Length of Chain, (mm) :

No. of rollers :

Roller diameter, (mm) :

Pitch, (mm) :

No. and size of bearing :

Safety provision

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1.11 **Rotary tiller Main shield cover (Top)**

Material : 

Size, (mm) : 

Thickness of sheet, (mm) : 

Method of fixing : 

1.12 **Rotor shaft**

Material : 

Type of rotor axle : 

Size of shaft (mm) : 

No. of flanges : 

Type of flanges : 

Dia. of flange, (mm) : 

Thickness of flange, (mm) : 

No. of blades on each flange : 

Method of mounting blades on flanges : 

Distance between blade Fixing disc, (mm) : 

Total no. of blades : 

Working width, (mm) : 

Dia. of rotor with blades ,(mm) : 

Method of fixing : 

1.13 **Depth control mechanism**
Type of material : 
Length , (mm) : 
Width/Dia., (mm) : 
No. of flat/rod : 
Method of fixing : 

1.14 **Steering handle bar**
No. of steering handle bar : 
Shape : 
Material : 
Dia. of pipe, (mm) : 
No. of hand grips : 
Length of grip, (mm) : 
Material of grip : 
Dia. of grip, (mm) : 

Height of handle bar from ground level, (mm) : 
Max. 
Min. 
Method of adjusting handle bar : 

1.15 **Transport wheel**
Make : 

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Number : 
Dia.,(mm) : 
Type of tyre wheel : 
Rim : 
Axle : 

1.16 Controls/Levers :
i) 

ii) 

iii) 

1.17 Overall dimensions (mm) : 
Length : 
Width : 
Height : 
Mass (kg) : 

1.18 Color of machine 

Chassis : 

Engine : 

Main drive cover : 

Transmission system Cover : 

Fuel tank : 

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