GOVERNMENT OF INDIA
CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE
MIN. OF AGRI., (DEPTT. OF AGRI. AND CO-OPN.)
TRACTOR NAGAR.P.O., BUDNI(M.P) 466 445
Fmti-mp@hub.nic.in

APPLICATION FOR CONFIDENTIAL/COMMERCIAL TESTING OF POWER TILLER
(To be submitted in triplicate duly filled in typed)

1. Name and address of applicant :
   Pin Code :
   Email/Address/Website :
   Telegraphic Address :
   Fax/Telephone Numbers :

2. Name and address of the manufacturer :
   Pin Code :
   Email/Address/Website :
   Telex number :

3. If the applicant is not the manufacturer, capacity in which the testing has been requested for (as authorised importer/distributor/designer/prospective manufacturer):

4. Details of power tiller proposed to be submitted for test :
   Make :
   Model :
   Type :
   Sl. No. :
   Month and year of manufacture :
5. Whether the power tiller proposed to be submitted for test is a prototype or Commercial model: Indigenous prototype ☐
   Imported prototype ☐

   : Imported Indigenous Commercial Model ☐
   Commercial model ☐

6. Nature of test: Confidential ☐
   Commercial ☐

7. If confidential, give details of tests requested for:

8. Total number of power tillers (as in 4 above) produced/imported since inception till date:

9. State whether design is based on foreign collaboration or Indigenous: Foreign Collaboration ☐
   Indigenous ☐

   State full address of collaborator:

10. Whether all the parts are produced indigenously (If no, attach list of imported parts, if any): Yes ☐
    No ☐

11. Period suitable for random selection of power tiller in case of machines already in commercial production & sale:

12. a) Type of implements & other attachment or equipment that are sold along with the names of their manufacturers:

<table>
<thead>
<tr>
<th>Name of implement/ equipment/ accessories</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
b  Whether the power tiller is suitable for wet land operations:  

<table>
<thead>
<tr>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

If Yes, state type of cage wheel/steel wheel to be used with the power tiller.

c) Type and gross mass of trailer to be used for haulage test:

<table>
<thead>
<tr>
<th>Type of Trailer</th>
<th>Gross mass of trailer: tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

d) Check for implement and other equipment’s or accessories propelled tinescent with the power tiller:

<table>
<thead>
<tr>
<th>Implement/Accessory</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>M.B. Plough</td>
<td></td>
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<tr>
<td>Disc Plough</td>
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<tr>
<td>Cultivator</td>
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<tr>
<td>Ridger</td>
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<tr>
<td>Rotavator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trailer</td>
<td></td>
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<tr>
<td>Water Tanker</td>
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<tr>
<td>Huller</td>
<td></td>
<td></td>
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<tr>
<td>Thresher</td>
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<tr>
<td>Sprayer</td>
<td></td>
<td></td>
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<tr>
<td>Pump</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Generator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garbage Collector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reaper/Reaper binder</td>
<td></td>
<td></td>
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<tr>
<td>Flour mill</td>
<td></td>
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<tr>
<td>Any other (to be specified)</td>
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</tbody>
</table>
13 Check for enclosures:

a) Specification of Power Tiller (in triplicate): Yes  No
b) Operator’s manual (in duplicate): 
c) Part’s Catalogue (in duplicate): 
d) Service Manual (in duplicate): 
e) Any other printed literature (to be Supplied in duplicate): 
f) Printed literatures in respect of various items listed in 12 (d) above (in duplicate): 

14. No. of additional copies of test reports required Addition to three free copies.

15. Whether testing expenditure is remitted (if yes, specify the details of remittance):

: Amount : Rs.
Bank/Bank Draft No.
Date :

16. Do you propose to depute a representative to witness test: Yes  No

17. Additional information, if any:

i) Details of letter of Intent/Registration/COB Licence No. and capacity sanctioned by the Ministry of Industry.

ii) Whether machine has been tested earlier in India/Foreign country (If so attach a copy of test Report): Yes  No
DECLARATION

I have read the Regulation for Testing of Agricultural Machinery at Central Farm Machinery Training & Testing Institute, Tractor Nagar, Budni(M.P) and hereby agree to abide by all term end conditions of the test.

Signature of Applicant :

Name & Designation :

Address:

Telephone No.
FAX No. :

Date:
1.0 GENERAL:

1.1 Name & address of manufacturer (If more than one give details of manufactures of all important assemblies. Separate sheets may be used):

1.2 Country of origin:

1.3 If imported, C.I.F. value:

1.4 List of imported components (in case of indigenous product):

1.5 List of Indigenous components (in case of imported product):

1.6 Submitted for test by:

1.7 Selected by:

1.8 Method of selection:

1.9 Recommended duration of running-in (Attach schedule of running-in)
   - Engine:
   - Transmission:

1.10 Place of running-in of power tiller:

1.11 Actual duration of running in(h)
   - Engine:
   - Transmission:

2.0 POWER TILLER:

2.1 Make:

2.2 Model:
2.3 Type : 

2.4 Serial No : 

2.5 Country of origin : 

2.6 Month and year of manufacture (Attach coding system used for month & year of production, if available) : 

3.0 ENGINE: 
3.1 Make : 

3.2 Model : 

3.3 Type : 

3.4 Serial No. : 

3.5 Country of origin : 

3.6 Engine speed (manufacturer’s recommended settings) : 

3.6.1 - Maximum speed at no load (rpm) : 
(High idling speed) 
- Rated speed (rpm) : 
- Low idling speed (rpm) : 
- Speed at maximum torque(rpm) : 

4.0 CYLINDERS: 
4.1 Number : 

4.2 Disposition : 

4.3 Bore/Stroke (mm) : 

4.4 Displacement (cubic capacity), (cm$^3$) : 

4.5 Compression ratio : 

4.6 Type of cylinder head : 

4.7 Type of combustion chamber : 

4.8 Type of cylinder liners : 

4.9 Arrangement of valves : 

4.10 Valve clearance : 

| In cold condition | In hot condition |
- Inlet valve (mm) :
- Exhaust valve (mm) :

: 3:

5.0 FUEL & IGNITION SYSTEM:
5.1 Type of fuel feed :
5.2 Make, model and type of fuel filter(s) :
5.3 Capacity of fuel tank(l) :
5.4 Make, model and type of fuel injection pump :
5.5 Serial No. :
5.6 Make, model and type of injectors of multi hole, No. of holes.
5.7 Manufacturer’s production pressure setting(kgf/cm²) :
5.8 Injection timing : ________ degree before TDC/IDC
5.9 Make, model and type of magneto/coil and distributor :
5.10 Make, model and type of carburettor :
5.11 Size of fuel jets :
5.12 Spark plugs (make and model) :

6.0 GOVERNOR:
6.1 Make :
6.2 Model :
6.3 Type :
6.4 Governed range of engine speed(rpm) :

7.0 PRE – CLEANER:
7.1 Make :
7.2 Type :
7.3 Location :

8.0 AIR CLEANER:
8.1 Make :
8.2 Type : 

8.3 Oil capacity(l) : 

8.4 Range of suction pressure at inlet manifold, m-bar(mm of Hg.) : 

8.5 Location : 

8.6 Oil change period:
- In dusty condition (h) : After every ..........hours
- In normal working condition (h) : After every .......... hours

9.0 EXHAUST SYSTEM:

9.1 Type of silencer : 

9.2 Position of silencer : 

9.3 Range of exhaust gas pressure, m-bar (mm of Hg.) : 

9.4 Details of spark arresting device (if any) : 

10.0 LUBRICATION SYSTEM:

10.1 Type : 

10.2 Type & number of filter(s) : 

10.3 Oil sump capacity(l) : 

10.4 Type of lubricating pump : 

10.5 Method of drive : 

10.6 Pressure release setting, kPa (kgf/cm²) : 

10.7 Oil change period:
- First change : After every .............hours
- Subsequent change : After every ............ hours

10.8 Minimum permissible recommended oil pressure kPa (kgf/cm²) : 

11.0 COOLING SYSTEM:

11.1 Type : 

11.2 Details of pump, if provided : 
11.3 Details of fan/blower : 5 :

11.4 Bare radiator capacity(l) :

11.5 Coolant capacity(l) :

11.6 Means of temperature control, if any :

11.7 Radiator cap pressure and markings provided, kPa (kgf/cm²) :

12.0 STARTING SYSTEM:

12.1 Make :

12.2 Type :

12.3 Aids for cold starting, if any :

12.4 Any other device provided for easy starting :

13.0 ELECTRICAL SYSTEM:

13.1 Generator/Magneto/Alternator

Make :

Model :

Serial No. :

Type :

Voltage :

Output and rating :

Location & type of drive :

13.2 Starter:

Make :

Model :

Type :

Serial No. :
Voltage & power:

Current drawn/rating: 6

13.3 Voltage regulator:

Make:

Type:


13.4 Light(s):

Number(s):

Type and capacity of bulbs(s) etc.:

Location:

13.5 Provision of lighting:

<table>
<thead>
<tr>
<th>Prescription</th>
<th>Number &amp; wattage</th>
<th>Height above ground of centre (mm)</th>
<th>Size (mm)</th>
<th>Distance from median plane of the power tiller</th>
<th>Distance from outside edge of power tiller (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head Lights</td>
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<tr>
<td>Side Lights</td>
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<tr>
<td>Rear Lights</td>
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<tr>
<td>Reflectors</td>
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<tr>
<td>Any other</td>
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</tbody>
</table>

Un restricted beam angle of head light in plan view

14.0 TRANSMISSION:

14.1 Clutch:

Location:

Make:

Type:

No. of friction plate(s):

Size of plates (mm):

Method of operation:
Speed reduction ratio from engine to clutch: 7:1

14.2 Gear box:

- Location:
- Make:
- Model:
- Type:

No. of speeds:

- Forward:
- Reverse:

Grade of oil/proposed to be used (Indian/equivalent):

Oil capacity(l):

Oil changing period: 1st change after ..........hours subsequent changes after every ..........hours.

14.3 Nominal speeds:

<table>
<thead>
<tr>
<th>Gear No.</th>
<th>Number of engine revolutions for one revolutions of driving wheel or sprocket</th>
<th>Nominal travelling speed at rated engine speed of ........ rpm when fitted with _____ size of tyres at an inflation pressure of ______ kPa (kgf/cm²) and rolling radius of ________(mm) (kmph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td></td>
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<tr>
<td>2nd</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td></td>
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<tr>
<td>4th</td>
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<tr>
<td>5th</td>
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<tr>
<td>6th</td>
<td></td>
<td></td>
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<tr>
<td>Reverse</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
15.0  HITCH:

15.1  Front tow hitch:
   - Provided/not provided:
   - Type:

15.2  Trailer Hitch:
   - Type:
   - Height above ground level when attached with trailer (mm):

15.3  Method of adjustment (if any):

16.0  STEERING:

16.1  Make:

16.2  Type:

16.3  Location:

16.4  Method of operation:

17.0  PARKING BRAKES:

17.1  Make:

17.2  Type:

17.3  Location:

17.4  Method of operation:

17.5  Type of lining material:

18.0  DRIVING WHEELS:

18.1  Number:

18.2  Type of tyres:

18.3  Make:

18.4  Size:

18.5  Ply rating:

18.6  Recommended tyre inflation pressure, kPa(kgf/cm²):
- For field work : 
- For road work : 

: 9 :

18.7 Maximum permissible weight on each tyre (kgf) (at ______ kPa(kgf/cm²) pressure)

18.8 Track width (mm) :

18.9 Method of changing track width :

18.10 Minimum ground clearance and position (mm)

18.11 Overall Dimensions (mm): 
- Length :
- Width :
- Height :

18.12 Weight:

18.12.1 Weight of power tiller without operator & ballast but with fuel, lubricants full and with standard accessories:
- Without rotavator :
- With rotavator :

18.13 Ballast:

18.13.1 Additional weights provided, if any and place of fitment.

18.13.2 Total weight of power tiller with full recommended ballast (including all commercially available weights) (kgf)

19 Rotavator:

19.1 Make :

19.2 No. and type of blades:
- For dry operation :
- For wet operation :

19.3 Width of rotavator(mm) :
19.4 Rotor diameter (mm) : 10 :

19.5 Rotary shaft speed at rated engine speed (rpm):
- Low :
- High :

19.6 Standard to which the blades conforms :

19.7 Material used :

19.8 Hardness of blades (HRC) :

<table>
<thead>
<tr>
<th>Type</th>
<th>At Shank (HRC)</th>
<th>At cutting edge (HRC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hatchet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pick-up (straight)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

19.9 Chain case:
Method of drive :
No. of teeth in driving sprocket :
No. of teeth in driver sprocket :
No. of links in drive chain
Pitch of chain(mm) :
Dia of rollers(mm)
Capacity of chain case(l) :
Grade of lubricant change period : 1st change after …… Hours Subsequent changes after every Hours.

20.0 TAIL WHEEL:
- Make :
- Type :
- Size :
Recommended tyre inflation pressure, kPa(kgf/cm²) :
Wheel base with tail wheel (mm) :
Range of adjustment(mm) :
Arrangement for dampening:

21.0 STEEL WHEEL (for puddling):
- Number(s):
- Diameter (mm):
- Width (mm):
- No. of lugs and type:
- Size of lugs (unit):
- Mass of each wheel (kg):

22.0 OPERATOR’S SEAT:
- Make:
- Type:
- Method of mounting:
- Adjustment, if any:
  - Longitudinal:
  - Lateral:
  - Vertical:

23.0 SAFETY FEATURES (GUARDS PROVIDED FOR):
- Flywheel: Yes/No
- Belts: Yes/No
- Silencer: Yes/No
- Clutch pulley: Yes/No
- Behind rotavator: Yes/No

24.0 NO. OF EXTERNAL LUBRICATION POINTS:
- Oiling:
- Grease cups:
- Grease nipples:

25.0 Any other details/feature of the power tiller:

26.0 Recommended implements, their sizes and accessories:

Signature of Applicant:
Name & Designation:
Address:
Telephone No.
FAX No.
Next contact person, his designation, address, Tel. No. FAX No. etc.