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**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 :

: 2 :

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 Yes No
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 :

Name of implement/ equipment/ accessories	Manufacturer

13 Check for enclosures:

- | | | |
|--|--------------------------|--------------------------|
| a) Specification of Power Tiller (in triplicate) : | Yes | No |
| | <input type="checkbox"/> | <input type="checkbox"/> |
| b) Operator's manual (in duplicate) : | <input type="checkbox"/> | <input type="checkbox"/> |
| c) Part's Catalogue (in duplicate) : | <input type="checkbox"/> | <input type="checkbox"/> |
| d) Service Manual (in duplicate) : | <input type="checkbox"/> | <input type="checkbox"/> |
| e) Any other printed literature (to be Supplied in duplicate) : | <input type="checkbox"/> | <input type="checkbox"/> |
| f) Printed literatures in respect of various items listed in 12 (d) above (in duplicate) : | <input type="checkbox"/> | <input type="checkbox"/> |
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 || | | |

: 5 :

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:

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SPECIFICATION OF POWER TILLERS

- 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 :
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	:	
		:	4 :
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 everyhours
	- 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/cm ²)	:	
10.7	Oil change period:		
	- First change	:	After everyhours
	- Subsequent change	:	After every hours
10.8	Minimum permissible recommended oil pressure kPa (kgf/cm ²)	:	
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 (kgg/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 :
 Output settings :Volts, Amps.

13.4 Light(s):

Number(s) :
 Type and capacity of bulbs(s) etc. :
 Location :

13.5 Provision of lighting:

Prescription	Number & wattage	Height above ground of centre (mm)	Size (mm)	Distance from median plane of the power tiller	Distance from outside edge of power tiller (mm)
Head Lights					
Side Lights					
Rear Lights					
Reflectors					
Any other					
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 :

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 afterhours
subsequent changes after every
.....hours.

14.3 Nominal speeds:

Gear No.	Number of engine revolutions for one revolutions of driving wheel or sprocket	Nominal travelling speed at rated engine speed of rpm when fitted with _____ size of tyres at an inflation pressure of _____ kPa (kgf/cm ²) and rolling radius of (mm) (kmph)
1 st		
2 nd		
3 rd		
4 th		
5 th		
6 th		
Reverse		
1 st		
2 nd		

- 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 with- out 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) :

Type	At Shank (HRC)	At cutting edge (HRC)
Hatchet		
Pick-up (straight)		

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 :

: 1 1 :

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 LUBRI-CATING 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.

Date: