



भारत सरकार
Government of India
कृषि मंत्रालय
Ministry of Agriculture
(कृषि एवं सहकारिता विभाग)
(Department of Agriculture & Cooperation)
दक्षिण क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE
ट्रैक्टर नगर, गार्लदिन्ने - ५१५ ७३१, जिला अनंतपुर (आंध्र प्रदेश)
Tractor Nagar, PO: Garladinne – 515 731 Dist. Anantapur (Andhra.Pradesh)

APPLICATION FOR CONFIDENTIAL/COMMERCIAL/BATCH/SUPPLEMENTARY TESTING OF POWER TILLERS

{To be submitted in Triplicate duly filled in (typed)}

1 Name and address of the applicant

Address :

Pin Code :

Telegraphic Address :

Telephone numbers :

Telex/FAX numbers :

2 Name and address of the manufacturer:

Address :

Pin Code :

Email/Address/Website :

Telephone numbers :

Telex/FAX numbers :

3 If the applicant is not the manufacturer capacity in which the testing has been requested for (as authorized importer/distributor/designer/respective manufacturer) :

4 Details of the machine to be submitted for test :

Make :

Model :

Type :

Brand Name, if any :

Indian Trade Name, if any :

Country of Origin :

Name of the Manufacturer/Applicant	Document No, if any Revision status	Name of the Test Agency: SRFMTTI, Garladinne
Signature :	Make :	Signature :
Name :	Model :	Name :
Designation :	Sheet No. _____ of _____	Designation :
Date :		Date :

Serial No. (Incase of ICT/Confidential) :

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

Indigenous Commercial

Imported Commercial

6 Nature of test :

Confidential Test

Initial Commercial Test

Batch Test

Supplementary Test

7 If confidential, specify details of tests requested for :

8 Total numbers 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 Yes No

State full address of collaborator :

10 Whether all the parts are produced Indigenously? (If no, attach a 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 accessories & other attachments or equipment that are sold along with the names of their manufacturers. :

Name of implement/equipment/accessories _____

Manufacturer _____

(b) Whether the power tiller is suitable for wet land operation :

Yes No

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:

Type of trailer _____ :

Gross mass of trailer _____ : tonnes

(d) Check for implement and other equipment's or accessories proposed to be sent with the power tiller

	Yes	No
M.B. Plough	<input type="checkbox"/>	<input type="checkbox"/>

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Name : _____	Model : _____	Name : _____
Designation : _____	Sheet No. _____ of _____	Designation : _____
Date : _____		Date : _____

Disc Plough			
Cultivator			
Ridger			
Rotavator			
Trailer			
Water Tanker			
Huller			
Thresher			
Sprayer			
Pump			
Generator			
Garbage Collector			
Reaper/ Reaper binder			
Flour Mill			
Any other (to be specified)			

13 Check for enclosures

Sl. No.	Enclosures	Yes	No
(a)	Detailed Specification of Power Tiller (in triplicate)		
(b)	Selected Performance Characteristics (in Triplicate)		
(b)	Operator's manual (in duplicate)		
(c)	Parts' catalogue (in duplicate)		
(d)	Service manual (in duplicate)		
(e)	Any other printed literature (to be specified) (in duplicate)		
(f)	Printed literatures in respect of various items listed in 12 (d) (in duplicate)		

14 Number of additional copies of the test reports :
required in addition to three free copies.

15 Whether testing expenditure advance is :
remitted? If yes, specify the details of
remittance

Yes No

Amount : Rs
SBI Demand Draft No. :
Date :

16 Do you propose to depute a representative to :
witness the tests

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 the test report)

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Signature : Name : Designation : Date :	Make : Model : Sheet No. _____ of _____	Signature : Name : Designation : Date :

DECLARATION

I have read the Regulations for Testing of Agricultural Machinery at Southern Region Farm Machinery Training & Testing Institute, Tractor Nagar, Garladinne-515731, District Anantapur (A.P) and hereby agree to abide by all the terms and conditions of the test stipulated in test regulations in force.

Place : Signature of Applicant/ Authorized signatory :
Date : Name of the Signatory :
Telephone No. : Designation :
FAX No. Address :

PRECONDITIONS FOR SUBMITTING MACHINES FOR INITIAL COMMERCIAL TEST

Make and Model of machine: -----

- (a) The specification of the machine submitted for test should conform to the production model which the manufacturer proposes to introduce. The manufacturer should certify that the prototype submitted for test will be manufactured under the Licence/DGTD registration granted to the unit
- (b) The test will be carried on the machine as it stands together with accessories and attachments essential to the satisfactory performance of the machine. The applicant will not be allowed to introduce alterations or modifications which should affect its normal performance during the progress of test. If any major modification or alteration is considered necessary, the applicant should withdraw the machine and resubmit the machine with fresh application for testing.

I/We do hereby abide by the above preconditions referred to at (a) & (b) above in respect of the test sample submitted for Initial Commercial test at Southern Region Farm Machinery Training & Testing Institute, Tractor Nagar, Garladinne-515731, District Anantapur (A.P).

Place : Signature of Applicant :
Date : Name of the Signatory :
Designation :
Address :

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Tractor Nagar, PO: Garladinne – 515 731 Dist. Anantapur (Andhra.Pradesh)

SPECIFICATION OF POWER TILLERS

{To be submitted in Triplicate duly filled in (typed)}

- 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 (incase 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 TILER:**
- 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 :

Name of the Manufacturer/Applicant	Document No, if any Revision status	Name of the Test Agency: SRFMTTI, Garladinne
Signature : Name : Designation : Date :	Make : Model : Sheet No. _____ of _____	Signature : Name : Designation : Date :

- 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), (cm³) :
- 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** : Cold condition Hot condition
- Inlet valve (mm) :
- Exhaust valve (mm) :
- 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 carburetor :
- 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) :

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Name :	Model :	Name :
Designation :	Sheet No. _____ of _____	Designation :
Date :		Date :

- 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/cm^2) :
- 10.7 Oil change period :
- First change : After every _____ hours
- 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 :
- 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 (kg/cm^2) :

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Signature : Name : Designation : Date :	Make : Model : Sheet No. _____ of _____	Signature : Name : Designation : Date :

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 :

13.3 VOLTAGE REGULATOR:

- Make :
- Type :
- Output settings : _____ Volts _____ Amps

13.4 LIGHT (S)

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

13.5 PROVISION OF LIGHTING:

Prescription	Number & wattage	Height aboveground 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 lamp plan view

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14.0 TRANSMISSION:

- 14.1 **Clutch:** :
- Location :
- Make :
- Type :
- No. of friction plate (s) :
- Size of plates (mm) :
- Method of operation :
- Speed reduction oration from engine to clutch :

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 :

14.3 Nominal Speed :

Gear No.	Number of engine revolutions for one revolutions of driving wheel or sprocket	Nominal traveling speed at rated engine speed ofrpm when fitted with_____ size of tyres at an inflation pressure of _____kPa (kgf/cm ²) and rolling radius of (mm) (kmph)
Forward		
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) :

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- 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 :
- 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) :

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Signature :	Make :	Signature :
Name :	Model :	Name :
Designation :	Sheet No. _____ of _____	Designation :
Date :		Date :

- 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) :
- 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 :
- 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 :

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- 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 FEATIRES (GUARDS PROVIDED FOR)**
 -Flywheel :
 -Belts :
 -Silencer :
 -Clutch pulley :
 -Behind rotavator :
- 24.0 **NUMBERS OF EXTERNAL LUBRICATING POINTS**
 -Oiling :
 -Grease cups :
 Grease nipples :
- 25.0 Any other details/feature of the power tiller :
 26.0 Recommended implements. Their sizes and accessories :

Place : Signature of Applicant/ Authorized signatory :
 Date : Name of the Signatory :
 Telephone No. : Designation :
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SELECTED PERFORMANCE CHARACTERISTICS REQUIREMENTS

{To be submitted in Triplicate duly filled in (typed)}

S. No.	Characteristics	Requirements	Tolerance as per IS: 13539-1996	Remarks
1	2	3	4	5
1	Engine Performance: -	To be declared by the Manufacturer		
a)	Maximum Power under 2h test {kW (Ps)}	:	± 5 %	
b)	Power at rated engine speed {kW (Ps)}	:	± 5 %	
c)	Specific fuel consumption corresponding to maximum power, {g/kWh (g/bhph)}	:	± 5 %	
d)	Specific fuel consumption corresponding to rated power, {g/kWh (g/bhph)}	:	± 5 %	
e)	Maximum crankshaft torque at maximum power {Nm (kgf-m)}	:		
f)	Maximum crankshaft torque {Nm (kgf-m)}	:	± 8 %	
g)	Back-up torque (%)	:		
h)	Maximum operating Temperature (°C)			
	- Engine oil	:		
	- Coolant (Water)	:		
i)	Lubricating oil consumption {g/kWh (g/bhph)}	:	± 10 %	
j)	Maximum coolant (water) consumption (% of total coolant capacity)	:		
2	Rotary Shaft Performance: -	To be declared by the Manufacturer		
a)	Maximum Power under 2 h test {kW (Ps)}	:	- 10 %	
b)	Power corresponding to rated engine speed {kW (Ps)}	:	- 10 %	
c)	Specific fuel consumption corresponding to power at rated engine speed {g/kWh (g/bhph)}	:	- 10 %	
d)	Maximum equivalent rotary shaft torque {Nm (kgf-m)}	:	± 8 %	
e)	Maximum operating temperature of rotary transmission (°C)	:		
f)	Rotary shaft power rating, {kW (Ps)}			
3	Draw-bar Performance: -	To be declared by the Manufacturer		
a)	Maximum drawbar pull corresponding to 15% wheel slip, {kN (kgf)}	:	- 10%	
	- un-ballasted	:		
	- ballasted	:		

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1	2	3	4	5
b)	Maximum drawbar power {kW (Ps)}	:	- 10%	
c)	Specific Fuel Consumption at maximum drawbar power g/kWh(g/dbhp)	:		
d)	Maximum transmission oil temperature (°C)	:		
4	Brake performance:		To be declared by the Manufacturer	
4.1	Service brake performance with matching trailer.			
a)	Maximum stopping distance (m)			
b)	Maximum force exerted on trailer brake pedal to apply the brake (N)			
4.2	Parking brake performance test			
a)	Maximum force exerted to apply the brake (N)		Yes/No	
b)	Observation on rotation on cranked wheel at a slope of 16%, 18%, facing up and down		Yes/No	
c)	Observation on rotation on drive wheels (power tiller) at a slope of 12%, with trailer having gross mass recommended for haulage, facing up and down		Yes/No	
5	Air Cleaner Oil Pull Over			
	Maximum percentage of oil pull over (mass basis)		0.25%	
6	Noise Level:			
a)	Maximum ambient noise emitted by the power tiller, dB(A)		90	
b)	Maximum ambient noise at operator's ear level, dB(A)		90	
7	Amplitude of mechanical Vibration at			
a)	Steering handle grips		100 m Max.	
b)	Gear levers		- do -	
c)	Clutch/brake lever (s)		- do -	
d)	Rotary shaft speed change levers		- do -	
e)	Accelerator lever		- do -	
f)	Operators seat (with trailer attached)		- do -	
h)	Foot rest		- do -	
8	Smoke Level:			
	At 80% load corresponding to maximum power		Max. light absorption coefficient of 3.1/m or equivalent Bosch (5.2) or Hettridge va (75%)	
9	Haulage performance: -		To be declared by the Manufacturer	
a)	Recommended Gross Mass of Trailer (ton)	:		
b)	Distance travelled per litre of fuel consumption (km)	:		
c)	Fuel consumption (cc/km/ton)	:		
10	Suitability for Wetland cultivation		YES/NO	
11	Stationary Operations	:		
a)	Centrifugal Pump of recommended size	:		
b)	Sprayer of recommended capacity	:		
c)	Any other equipment	:		
12	Discard Limits (mm)		To be specified by the manufacturer in printed literature	
a)	Cylinder dia hole (mm)	:		

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1	2		3	4	5
b)	Cylinder bore taperness and ovality (mm)	:			
c)	Piston dia (mm)	:			
d)	Piston to cylinder clearance at skirt (mm)	:			
e)	Piston ring-end gap (mm)	:			
	- Compression rings	:			
	- Oil rings	:			
f)	Piston ring groove clearance (mm)	:			
	- Compression rings	:			
	- Oil rings	:			
g)	Clearance of big-end bearings (mm)	:			
	- Radial	:			
	- Axial	:			
h)	Clearance of main bearing (mm)	:			
i)	Crank shaft end float (mm)	:			
j)	Clearance between valve guide and stem (mm)	:			
k)	Spring index of valve springs kN/mm(kgf/mm)	:			
l)	Overall thickness of clutch plate/thickness of lining over rivet head (mm)	:			
m)	Backlash of transmission gears (mm)	:			
13.	Safety Requirements				
a)	Provision of guards on moving parts other than rotavator	:			
b)	Location & direction of exhaust emission to be away from the operator & machines for stationary operation	:			
c)	Covers on hot parts	:			
d)	Locking of parting stand lever	:			
e)	Protective shield for rotavator to prevent flying of mud and stones	:			
f)	Accidental engaging of reverse speed gear when rotary is in operation	:			
G	Provision of lights	:			

Place : Signature of Applicant/ Authorized signatory :

Date : Name of the Signatory :

Telephone No. : Designation :

FAX No. : Address :

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