

TABLE-16 Testing Agencies document No. CFMT&TI/BTS/POWER TILLERS/Revised November, 2019

GOVERNMENT OF INDIA
CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE
(MINISTRY OF AGRICULTURE AND FARMERS WELFARE)
DEPARTMENT OF AGRICULTURE, CO-OPERATION AND FARMERS WELFARE
(MECHANIZATION & TECHNOLOGY DIVISION)
An ISO:9001-2015 Certified Institute
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BRIEF TECHNICAL SPECIFICATIONS FOR POWER TILLER
(To be submitted by the Applicant/ Manufacturer to testing Agency in Triplicate copy)

1.0 GENERAL DESCRIPTION ABOUT MANUFACTURER / APPLICANT

- 1.1 Name of Power Tiller Manufacturer :**
 Address of Manufacturer :
 Telephone Number (s) :
 Fax Number (s) :
 e-Mail Address :
 Website :
 Name and Designation of contact person :
 Telephone Number / e-mail ID of contact person :

1.2 Name of Applicant, if other than manufacturer:

- Address of applicant :
 Telephone Number (s) :
 Fax Number (s) :
 e-mail Address :
 Website :

2.0 BRIEF TECHNICAL SPECIFICATION OF POWER TILLER:

- Make :
 Model :
 Type :
 Variant(s) if any (please give brief description of variants separately) :
 Chassis No. :
 Serial No. :
 Month & Year of manufacture (attach coding system letter also) :
 Max. engine power, kW @ rpm (declared value) :
 Rated engine power, kW @ rpm (declared value) :
 Max. rotary power, kW @ rpm (declared value) :
 Whether tested in India earlier, If yes, specify Name of Test Agency & its test report No. with month and year of issue :

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3.0 Prime Mover for the Power Tiller:

Make :
 Model :
 Type :
 Serial Number :
 Bore / stroke, (mm) :
 Capacity, (cc) :
 No. of cylinder (s) :
Engine speed, (rpm): :
 - Maximum speed at no load :
 - Low idle speed :
 - Speed at maximum torque :
 - Rated speed, (rpm) :

3.1 Air Cleaner:

Make :
 Type :
 Location :
 Number of filter element :

3.2 Cooling System:

Type :
 Coolant as recommended :
 Coolant and water ratio :
 Radiator cap pressure, kPa (kgf/cm²) :

3.3 Fuel Supply System:

Type :

3.3.1 Fuel tank:

Make :
 Material :
 Location :
 Capacity (l) :

3.3.2 Fuel filter (s):

Make :
 Type :
 Number (s) :
 Additional filter(s), if any :

3.3.3 Fuel Feed Pump:

Make :
 Type :
 Model/group combination No. :

3.3.4 Fuel Injection Pump:

Make :
 Model/group combination No. :
 Type :
 Serial No :

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3.3.5 Governor:

Make :
 Model/group combination No. :
 Type :

3.3.6 Fuel Injector:

Make :
 Model / Group combination number:
 Holder Number :
 Nozzle number :
 Type :

3.4 Lubrication System:

Type :
 No. & type of oil filter (s) :
 Cooling device, if any :

4.0 Transmission System:

4.1 Clutch:

Type :
 No. of plate (s) :
 Size OD/ID, (mm): :

4.2 Gear Box:

Make :
 Model & Identification No.(if any) :
 Type :
 No. of Arrangement (s) [Low, Medium, :
 High]

4.3 No. of gears:

Forward :
 Reverse :

4.4 Range of nominal speeds at rated engine speed, (kmph):

Forward :
 Reverse :

5.0 Steering:

Make :
 Type :
 Location :
 Steered axle :
 Method of operation :
 Minimum turning circle diameter, (m) :

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6.0 Wheel equipment & tyres:**6.1 Drive wheel (s):**

Make :
 Tyre size & ply rating :
 Track width range, (mm) :
 Method of changing track width :
 Recommended inflation pressure, kPa
 (kgf/cm²) :
 - For road work :
 - For field work :
 Make & size of rim :

6.2 Tail wheel, if any

Make :
 Tyre size & ply rating :
 Type :
 Recommended inflation pressure, kPa
 (kgf/cm²) :
 - For road work :
 - For field work :

7.0 Brakes:**7.1 Service brake:**

Type (describe briefly) :
 Location :
 Method of operation :

7.2 Hand / Parking brake:

Type (describe briefly) :
 Location :
 Method of operation :

8.0 Electrical system of power tiller:

System voltage,(V) :
 Terminal earthed :

8.1 Battery:

Make :
 Type :
 Model :
 Number(s) :
 Capacity and rating :

8.2 Generator (Alternator/Dynamo):

Make :
 Type :
 Model :
 Max. output,(W) :

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8.3 Starter:

Make :
 Type :
 Model :
 Max power input, (kW) :

8.4 Head Lights:

Head lamp assembly make :
 Bulb make :
 Numbers :
 Wattage of bulbs, (W) :
 Location :
 Colour :

8.5 Parking Light(s):**8.5.1 Front:**

Front combination lamp Assembly make :
 Bulb make :
 Numbers :
 Wattage of bulbs, (W) :
 Location :
 Colour :

8.5.2 Rear:

Rear combination lamp Assembly make :
 Bulb make :
 Numbers :
 Wattage of bulbs, (W) :
 Location :
 Colour :

8.6 Turn Indicator Light(s):**8.6.1 Front:**

Front combination lamp Assembly make :
 Bulb make :
 Numbers :
 Wattage of bulbs, (W) :
 Location :
 Colour :

8.6.2 Rear:

Rear combination lamp Assembly make :
 Bulb make :
 Numbers :
 Wattage of bulbs, (W) :
 Location :
 Colour :

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8.7 Brake / Stop Light:

Light assembly make :
 Bulb make :
 Numbers :
 Wattage of bulbs, (W) :
 Location :
 Colour :

8.8 Plow / work light:

Light assembly make :
 Bulb make :
 Number(s) :
 Wattage of bulbs, (W) :
 Location :
 Colour :

8.9 Reflector(s):**8.9.1 Front:**

Make :
 Shape :
 No.(s) :
 Location :

8.9.2 Rear:

Make :
 Shape :
 No.(s) :
 Location :
 Colour :

9.0 Mass of power tiller, (kg):

Unballasted / standard ballasted:
 - With rotary :
 - Without rotary :
 Road ballast :
 Max permissible Ballasted :

10. Max forward travel speed at full throttle, (kmph) :

11.0 Max gradeability in degrees :

12.0 Seat (s):**12.1 Operator's seat:**

Make :
 Type :
 Location :

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12.2 Additional seat (s), if any:

Make
Type
Location

13.0 Mirror:

Make :
Type :
Location :

14.0 Wheel base, (mm):

- With tail wheel in position, :
- With trailer :

15.0 Overall Dimension in travel mode, (mm):

- Minimum ground clearance :
- Overall length :
- Overall width :
- Height :

Power Tiller**Power Tiller is coupled with recommended trailer****16.0 Noise Measurement:**

Maximum ambient noise emitted by the tractor at bystanders position, dB(A) :
Maximum noise at operator's ear level, dB(A) :

I, -----**Name and designation of person**----- R & D of **M/s** -----**Manufacturer name**----- hereby declare that information given above in page no. **01 to 07** is as per design / drawings of the prototype/commercial model of power tiller submitted for inspection / test and is correct to the best of my knowledge and belief. I also understand that in case of any information furnished above is found to be "not correct" or "incomplete", and then among other actions, the certificate is liable to be canceled. It is further declared that this machine has never ever been tested by the any test agency as referred in Rule 126 of CMVR 1989. It is further declared that no application has been submitted to any other test agencies as referred in Rule 126 of CMVR 1989.

Applicant / Manufacturer : M/s -----Manufacturer name-----

Signature of Authorized Signatory :

Name :
Designation :
Place :
Date :

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