

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: ICE/SRFMTTI,

ANANTAPUR/2025-26/13/13/1876

माह/Month: May, 2025

**THIS TEST REPORT IS VALID UP TO 30.04.2032**



**TEXAS, HOBBY 450TG POWER WEEDER**



भारत सरकार

**Government of India**

कृषि एवं किसान कल्याण मंत्रालय

**Ministry of Agriculture and Farmers Welfare**

कृषि एवं किसान कल्याण विभाग

**Department of Agriculture and Farmers Welfare**

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

**Southern Region Farm Machinery Training and Testing Institute**

ट्रैक्टर नगर, गार्लदिन्ने-515 731, जिला: अनंतपुर (आं. प्र.)

**Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)**

**[An ISO 9001:2015 CERTIFIED INSTITUTE]**

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ICE/SRFMTTI, ANANTAPUR/2025-26/ 13/13/1876	TEXAS, HOBBY 450TG POWER WEEDER THIS TEST REPORT IS VALID UP TO 30.04.2032	COMMERCIAL (ICT)
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Manufacturer, (apa) : M/s. Texas A/S,  
Knullen 22, DK-5260, Odense S,  
Denmark.

Applicant : M/s. Farm and Garden Technologies  
Private Limited, (Subsidiary company of  
Texas A/S Denmark) #210, II floor, Vipul  
Agora, MG Road, Sector-28, Gurugram-  
122001 (Haryana).

### TEXAS, HOBBY 450TG POWER WEEDER

Report no.: ICE/SRFMTTI, ANANTAPUR/2025-26/13/13/1876

Month: May

Year: 2025

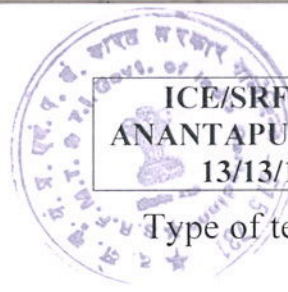


सत्यमेव जयते

**Government of India**  
**Ministry of Agriculture and Farmers Welfare**  
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ICE/SRFMTTI, ANANTAPUR/2025-26/ 13/13/1876	TEXAS, HOBBY 450TG POWER WEEDER	COMMERCIAL (ICT)
	THIS TEST REPORT IS VALID UP TO 30.04.2032	

Type of test : COMMERCIAL (ICT)

Period of test : April, 2025 to May, 2025

Test Report No. : ICE/SRFMTTI, ANANTAPUR/2025-26/13/13/1876

Month / Year of release : May, 2025

- i) The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii) The data given in this report pertain to the particular machine randomly selected by testing authority through virtual mode.
- iii) The results presented in this report do not, in anyway, attribute to the durability of the machine.
- iv) This Test Report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on Commercial Test of Power Weeder named “**TEXAS, HOBBY 450TG POWER WEEDER**”. This report is valid up to **30.04.2032**, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated **12.12.2023**.

SELECTED CONVERSIONS

Sl. No.	Units	Conversion Factor
1	Force	
	1 kgf	9.80665 N
		2.20462 lbf
2	Power	
	1 hp	1.01387 metric hp (Ps)
		745.7 W
	1 Ps	735.5 W
	1 kW	1.35962 Ps
3	Pressure	
	1 psi	6.895 kPa
	1 kgf/cm <sup>2</sup>	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm <sup>2</sup>
	1 mm of Hg	1.3332 m-bar



ICE/SRFMTTI, ANANTAPUR/2025-26/ 13/13/1876	TEXAS, HOBBY 450TG POWER WEEDER	COMMERCIAL (ICT)
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1	2	3	4	5
24	Provision for transport wheels	Must be provided	Provided	Conforms
25	Provision for cover on exhaust	Must be provided	Provided	Conforms
26	Direction of exhaust emission away from operator	Must be provided	Provided	Conforms
27	Marking/labeling of machine	The labeling plate should be riveted on the body of the machine having name and address of manufacturer & applicant, country of origin, make, model, year of manufacturer, serial number, engine number, engine HP, rated rpm & SFC	<b>Name &amp; Address of Applicant &amp; SFC are not provided.</b>	<b>Does not conform</b>
28	Literature	Operator manual, service manual and parts catalogue should be provided	Provided	Conforms

## 18. COMMENTS & RECOMMENDATIONS

### 18.1 Engine Performance:

- 18.1.1 The maximum power was observed as 2.33kW under natural ambient condition against the declared value of 2.4 kW.
- 18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 625 g/kWh against the declared value of 450 g/kWh.
- 18.1.3 Back up torque of engine was observed as 7.03 % against declared value of 7.5%.
- 18.1.4 Max. torque was observed as 7.00 Nm against the declared value of 7.5 Nm.

### 18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 400 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

### 18.3 The Hardness and Chemical analysis:

The Hardness and chemical analysis of Straight blade (2 teeth) is not as per requirement of the relevant code IS 6025:1982 (Reaffirmed 1999) & therefore it should be looked into for the corrective action.

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#### 18.4 Marking /labeling:

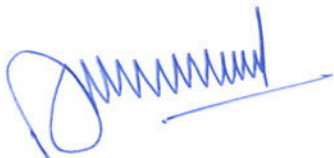



The labeling plate does not reveal all the required information. It is therefore recommended that a suitable labeling plate covering all essential components, interlaid, the following must be provided:

- Name & Address of Applicant
- Specific fuel consumption (g/kWh)

#### 18.5 Technical literature:

Operator's manual, service manual and parts catalogue of power weeder in separate booklet were supplied for reference during the test. It is however, recommended that same may be revised in Hindi and other regional languages as per IS 8132: 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

### TESTING AUTHORITY

 Er. PRAMOD YADAV AGRICULTURAL ENGINEER	 Er. VIJAY KUMAR BADAYA SENIOR AGRICULTURAL ENGINEER
 Dr. B.M. NANDEDE DIRECTOR 	

### 19. APPLICANT COMMENTS

Reference	Applicant comments
18.1.1	Will inform our R & D team to look into it.
18.1.2	Will take necessary steps to correct action.
18.1.3	Will take necessary steps to correct it.
18.1.4	Will take necessary steps to correct it.
18.2	Will take necessary steps to decrease the vibration.
18.3	Will take necessary steps to meet IS standards.
18.4	Will take necessary steps to provide all the information.
18.5	Will provide in regional languages also.