

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT (INITIAL)

संख्या/No: PP/SRFMTTI,
ANANTAPUR/2025-26/04/04/1942
माह/Month: November, 2025

THIS TEST REPORT IS VALID UP TO 31.10.2032



**KISAN CHOICE, ULTRA-139F
ENGINE OPERATED KNAPSACK SPRAYER**



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, ज़िला: अनंतपुर (आं. प्र.)

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

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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PP/SRFMTTI,
ANANTAPUR/2025-26/
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KISAN CHOICE, ULTRA-139F
ENGINE OPERATED KNAPSACK SPRAYER
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Manufacturer, (apa) : Taizhou Dongfeng Technology Co. Ltd.,
289, Houcang Road, Zeguo Town, Taizhou,
Zhejiang Province, **China**.

Applicant : M/s. Sri Mahalakshmi Industries, 274, 4th
Lane, Auto Nagar, Mangalagiri, Guntur,
Andhra Pradesh-522503.

KISAN CHOICE, ULTRA-139F ENGINE OPERATED KNAPSACK SPRAYER

Report no.: PP/SRFMTTI, ANANTAPUR/2025-26/04/04/1942

Month: November

Year: 2025



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ENGINE OPERATED KNAPSACK SPRAYER
THIS TEST REPORT IS VALID UP TO
31.10.2032**

**COMMERCIAL
(ICT)**

Type of test : COMMERCIAL (ICT)

Period of test : August, 2025 to September, 2025

Test Report No. : PP/SRFMTTI, ANANTAPUR/2025-26/04/04/1942

Month / Year of release : November, 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 any way, 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 Engine Operated Knapsack Sprayer named "**KISAN CHOICE, ULTRA-139F ENGINE OPERATED KNAPSACK SPRAYER**". This report is valid up to **31.10.2032**, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated **12.12.2023**.
- vi) **This is report is not covered under BIS certification. Therefore, the manufacturers cannot market the sprayer with ISI mark, only on the basis of this test report.**

SELECTED CONVERSIONS

S. 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 ²	98.067 kPa = 735.56 mm of Hg
	1 bar	100 kPa = 10 N/cm ²
	1 mm of Hg	1.3332 m-bar

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KISAN CHOICE, ULTRA-139F
ENGINE OPERATED KNAPSACK SPRAYER
THIS TEST REPORT IS VALID UP TO
31.10.2032



Type of test : COMMERCIAL (ICT)

Name of Machine : Engine Operated Knapsack Sprayer

Make : KISAN CHOICE

Model : ULTRA-139F

Manufacturer, (apa) : Taizhou Dongfeng Technology Co. Ltd.,
289, Houcang Road, Zeguo Town, Taizhou,
Zhejiang Province, China.

Applicant : M/s. Sri Mahalakshmi Industries, 274, 4th Lane,
Auto Nagar, Mangalagiri, Guntur, Andhra
Pradesh-522503.



TESTED BY
Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
Southern Region Farm Machinery Training and Testing Institute
Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)
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COMMERCIAL
(ICT)

24. COMMENTS & RECOMMENDATIONS

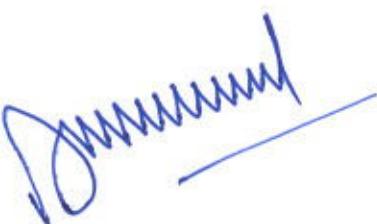
- 24.1** The pressure gauge with full scale reading provided on it does not meet the requirement of IS 11313: 2007 (Reaffirmed-2022). This should be looked into for necessary corrective action.
- 24.2** The manufacturer's name or recognized trade mark on spray nozzle is not marked and does not meet the requirement of IS 3652:2024. This should be looked into for necessary corrective action.
- 24.3** The discharge rate of pump does not meet the requirement of IS 11313: 2007 (Reaffirmed-2022). This should be looked into for necessary corrective action.
- 24.4** The discharge rate of spray gun does not meet the requirement of IS 3652:2024. This should be looked into for necessary corrective action.
- 24.5** The discharge rate of spray nozzle does not meet the requirement of IS 3652:2024. This should be looked into for necessary corrective action.
- 24.6** Suction strainer is not provided and the same may be provided.
- 24.7** The diameter of connecting rod of the gun does not meet the requirement of IS 11313:2007 (Reaffirmed-2022). This should be looked into for necessary corrective action.
- 24.8** **Marking /labeling:**
A suitable labeling plate (Not sticker) needs to be provided with 'inter alia' following information:
i) Name & address of manufacture
ii) Month & year of manufacture
iii) Rated speed
iv) Rated pressure
v) Discharge rate
vi) Power rating of engine
vii) SFC of engine
- 24.9** **Technical literature:**
User's manual is provided during the test. However, the same must be brought but in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

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COMMERCIAL
(ICT)

TESTING AUTHORITY



Er. PRAMOD YADAV
AGRICULTURAL ENGINEER



Er. Y.K. RAO
SENIOR AGRICULTURAL ENGINEER



Dr. P.P. RAO
DIRECTOR

25. APPLICANT'S COMMENTS

-Nil-