

THIS TEST REPORT IS VALID UPTO 30.04.2031



SWARAJ, DURAVATOR SLX PLUS HD 1.7M ROTAVATOR



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

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[An ISO 9001:2015 CERTIFIED INSTITUTE]

Website: <http://srfmtti.dacnet.nic.in/>

IMP-394/1620	SWARAJ, DURAVATOR SLX PLUS HD 1.7M ROTAVATOR	COMMERCIAL (ICT)
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SWARAJ, DURAVATOR SLX PLUS HD 1.7M ROTAVATOR

Report No. : IMP-394/1620

Month: May

Year: 2024



सत्यमेव जयते

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Ministry of Agriculture and Farmers Welfare
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Type of test : INITIAL COMMERCIAL TEST
 Period of test : December, 2023 to February, 2024
 Test Report No. : IMP-394/1620
 Month /Year of release : May, 2024

- 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 for test by the testing authority by virtual mode.
- iii) The results presented in this report do not, in any way, attribute to the durability of the machine.
- iv) This report should not be reproduced in part or full without prior permission of the Director, Southern Region Farm Machinery Training and Testing Institute, Garladinne, Anantapur (A.P.).
- v) This is a report on commercial test of rotavator named "Swaraj, Duravator SLX PLUS HD 1.7M Rotavator". This report is valid up to 30.04.2031, Vide Ministry's O.M. No. 13-22/2020-M&T (I&P) dated 12.12.2023

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

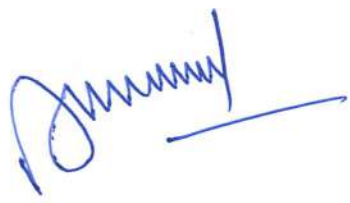


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13. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

- 13.1 No ingress of dust and water/mud in primary reduction gear box, secondary reduction gear box, and rotary axle bearing cap was observed.
- 13.2 Breather cap, oil level dipstick in primary and secondary gearbox are provided.
- 13.3 The chemical composition of rotor blades does not meet, in full, the requirement of IS: 6690-1981. This should be looked into for corrective action.
- 13.4 It is recommended to provide a device for changing the rotor speed to suit wider range of soil and soil moisture conditions.
- 13.5 Safety device is provided in rotavator propeller shaft.
- 13.6 Provision for parking stand is provided in rotavator.
- 13.7 **Adequacy of literature:**
Operator's manual, service manual and parts catalogue of the Rotavator in English were provided in single booklet form for reference during the test. However, this should be brought out 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	
Dr. B.M. NANDEDE DIRECTOR	