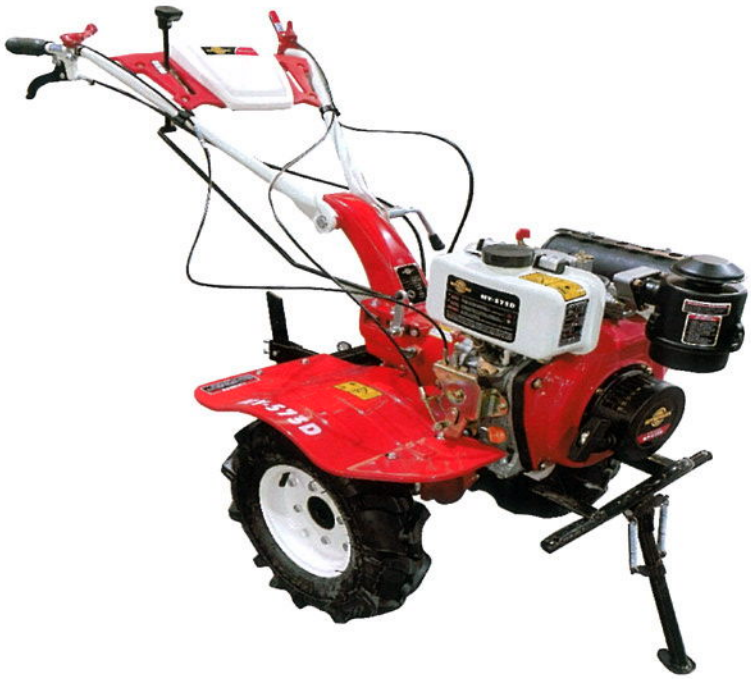
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) संख्या/No: Machine-583/1638

COMMERCIAL TEST REPORT(INITIAL) माह/Month: June, 2024

THISTEST REPORT IS VALID UPTO 31.05.2031



MITSUYAMA, MY-573DPOWER WEEDER

सत्यमेव जयते

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 9001:2015CERTIFIEDINSTITUTE]

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

E-mail: fmti-sr@nic.in Tele.: 08551-286441

Manufacturer, (apa) : M/S. Chongqing Senci Wugu Agricultural Machinery Import-export Co., Ltd No.8, Longfei Road, Dongcheng Street, Tongliang Town, Chongqing, **China.**

Applicant : M/S. Really Agritech Private Limited Building No D/3, Unit No: 13 & 14, Angel Compound Mumbai-Nashik Highway NH 3 Village Pimpalas, Bhiwandi, Thane – 421311, MH. **India**.

MITSUYAMA, MY-573D POWER WEEDER

Report no.: **Machine-583/1638** Month: **June** Year: **2024**

सत्यमेव जयते

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.)
[An ISO 9001:2015 CERTIFIED INSTITUTE]

Telephone: 08551-286441

Website: http://srfmtti.dacnet.nic.in/ E-mail: fmti-sr@nic.in

Type of test : COMMERCIAL (ICT)

Period of test : November, 2024 to February, 2024

Test Report No. : **Machine-583/1638**

Month / Year of release : June, 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 by testing authority.

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 Power Weeder named **"MITSUYAMA, MY-573D Power Weeder ". This report is valid up to 31.05.2031, 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

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

18.1.1 The maximum power was observed as 3.75 kW under natural ambient condition against the declared value of 3.60 kW.

18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 440 g/kWh against the declared value of 375 g/kWh.

18.1.3 Back up torque of engine was observed as 15.65 % against declared value of 7 %.

18.1.4 Max. torque was observed as 12.19 Nm against the declared value of 20.00 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 351 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 The hardness of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2022). This should be looked into for corrective action.

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

i) Address of manufacturer
ii) Country of origin
iii) Make
iv) Engine no.
v) Rated rpm
vi) Specific fuel consumption (g/kWh)

18.5 Technical literature:

User's manual cum parts catalogue provided but not in booklet form for reference during the test. It is recommended that same must be revised in booklet form and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel in booklet form.

TESTING AUTHORITY

Er. PRAMOD YADAV AGRICULTURAL ENGINEER	Er. P. KAMALABAI SENIOR AGRICULTURAL ENGINEER

Dr. B.M. NANDEDE
DIRECTOR

SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE * GARLADINNE - 515731 * ANANTAPUR (A.P.) * GOVT. OF INDIA *

19. APPLICANT'S COMMENTS

Sl. No.	Para No.	COMMENTS
1	18.2	We will work on it to reduce the vibration of machine in future production.
2	18.3	We will do the necessary on hardness of blades to meet IS 6690:1981 (Reaffirmed 2022).
3	18.4	We will work on it to provide labelling plate in future products as per IS.
4	18.5	We will provide in future User's manual cum parts catalogue in booklet form as per IS 8132:1999 (Reaffirmed 2004).