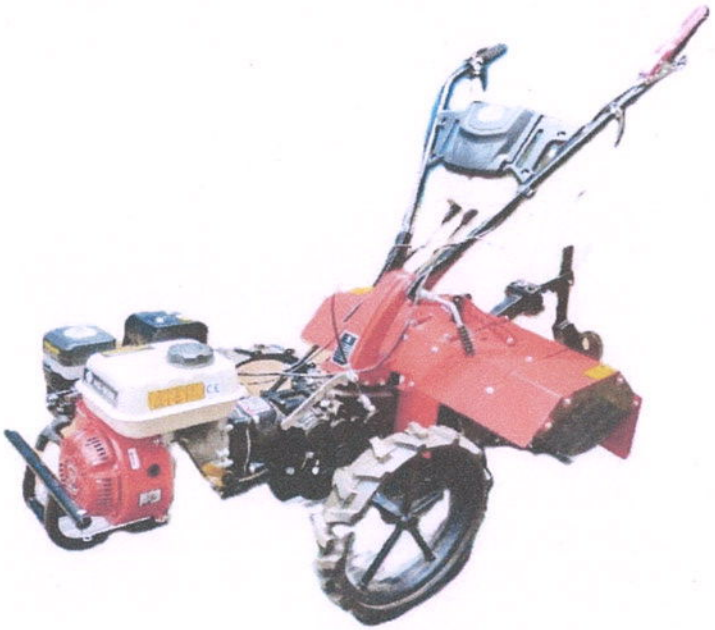
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) संख्या/No: Machine-689/1776

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

THIS TEST REPORT IS VALID UP TO 30.11.2031



RAAJ, RAAJ-170BR POWER 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

Manufacturer : M/s. Rajesh Engineering Works
Shop Khata No.158, Hanagal, Molkalmuru (Tq), Chitradurga (Dt), Karnataka, India.

Applicant, : The Manufacturer

RAAJ, RAAJ-170 BR POWER WEEDER

Report no.: **Machine-689/1776** Month: **December** 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
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[An ISO 9001:2015 CERTIFIED INSTITUTE]

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

18. COMMENTS & RECOMMENDATIONS

18.1 Engine Performance:

18.1.1 The maximum and rated power was observed as 3.88 kW under natural ambient condition against the declared value of 3.8 kW.

18.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 428 g/kWh against the declared value of 420 g/kWh.

18.1.3 Back up torque of engine was observed as 9.05 % against declared value of 10%.

18.1.4 Max. torque was observed as 11.20 Nm against the declared value of 12 Nm.

18.2 Mechanical vibration:

The amplitude of mechanical vibration on various assemblies of the Power weeder was observed to the extent of 204 micron, which is on higher side. In view of the above, this should be given top priority for corrective action.

18.3 Hardness & Chemical analysis:

The hardness & chemical analysis 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 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:

i) Country of origin
ii) Year of manufacturing
iii) Engine hp
iv) Specific fuel consumption, (g/kWh)

18.5 Technical literature:

User's manual is provided during the test. However, the same must be brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the guidance of users.

The following literature should be provided.

i) Service manual
ii) Parts catalogue

TESTING AUTHORITY

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

19. APPLICANT COMMENTS

Sl. No.	Para No.	Comments
1	18.1.2 & 18.1.4	We will inform it to our manufacturer for making necessary possible changes in the future machine.
2	18.2	We will insist strongly to the manufacturer to put some vibration dampeners.
3	18.3	We will make some changes in blade material to meet the requirements of IS 6690:1981 (Reaffirmed 2022).
4	18.4	Your suggestion is noted, we will modify the labeling plate of machine as per your recommendations.
5	18.5	We will brought out the literature as per IS 8132:1999 (Reaffirmed 2004).