

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

COMMERCIAL TEST REPORT
(INITIAL)

संख्या/No: Machine-393/1221

माह/Month: October, 2020

Validity: 30.09.2025



AGRIMATE AMH-200T-4S BRUSH CUTTER



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation 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.)

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| Machine-393/1221 | AGRIMATE AMH-200T-4S BRUSH CUTTER | COMMERCIAL (ICT) |
|-------------------------|--|-------------------------|

Manufacturer : M/s. Yung Chi Y C Industrial Co.,
23-1, Huei Lai St., Yuan Lin Town,
Changhua Hsien, 510, **Taiwan**

Name of Applicant : M/s. Ratnagiri Impex Pvt. Ltd.,
Annapurna House, # 1/1G, 7th Cross,
New Guddadadhalli, Mysore Road,
Bangalore- 560 026, Karnataka, India.

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16. COMMENTS & RECOMMENDATIONS

- 16.1** The safety provisions, as mentioned at para 5.14, have been provided by the applicant for safety aspect of operator's.
- 16.2** Max. Noise at operator's ear level was observed as 96 dB (A), which is on higher side as per ILO. As the Sound Pressure level is directly influencing the Human/Operator's Health, Safety and Comfort; and therefore suitable corrective action may be taken.
- 16.3** The equivalent mechanical vibration on engine cover was observed to the extent of 340 micron. The mechanical vibration is directly concerned with Operator's Health, Safety and Comfort; apart from the useful life of the machine's components. In view of the above. This should be looked into for dampening the vibration.
- 16.4** The capacity of fuel tank is only 1.00 liters, which does not appear to be adequate. this calls for necessary modification.
- 16.5** A fuel on/off knob may be considered for providing in the fuel system of engine.
- 16.6** The hardness of circular disc and triangular blade were recorded as 39.4 to 43.2 & 33.5 to 36.3 respectively, against the requirement of 48 to 58 HRC as per IS 6025:1982 (Reaffirmed 1999). This should be looked into for necessary improvements in the quality of material of blades.
- 16.7** The chemical composition of triangular blade and circular disc were not as per requirement of the relevant code IS 6025:1982 (Reaffirmed 1999) & therefore it should be looked into for the corrective action.
- 16.8** Provided labeling plate should be as per the requirement of IS.

Machine-
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AGRIMATE AMH-200T-4S BRUSH CUTTER

COMMERCIAL
(ICT)

6.9 Adequacy of literature supplied with the machine:

The user's manual cum parts catalogue of brush cutter in English was supplied with the brush cutter for reference during the test. It is however, recommended that same may be revised and brought out as per IS: 8132- 1999 (Reaffirmed 2004) for the sake of user & technical personnel.

TESTING AUTHORITY:

B.N. DIXIT
AGRICULTURAL ENGINEER

Dr. P.P. RAO
DIRECTOR

17. APPLICANT'S COMMENTS

| Para No. | Our reference | Applicant's comments |
|----------|---------------|--|
| 17.1 | 16.2 | Actually, the machine is hand operated machine, the machine is very near to operator ear. Anyway, we will work on it reduce the noise level of machine in future production. |
| 17.2 | 16.3 | We will work on it provide additional dampening for reducing the mechanical vibration of the machine. |
| 17.3 | 16.4 | As it is handheld machine, if we will provide bigger fuel tank, it will cause for more weight of the machine and handling maybe critical. |
| 17.4 | 16.5 | We consider your comments and rectify it in future supplies. |
| 17.5 | 16.6 | We will make necessary improvement in material of blade to suit the requirement. |
| 17.6 | 16.7 | We will make necessary improvement in material of blade to suit the requirement. |
| 17.7 | 16.8 | We will consider it and make necessary modification in name plate. |
| 17.8 | 16.9 | We will be brought out literature as per your suggestions. |