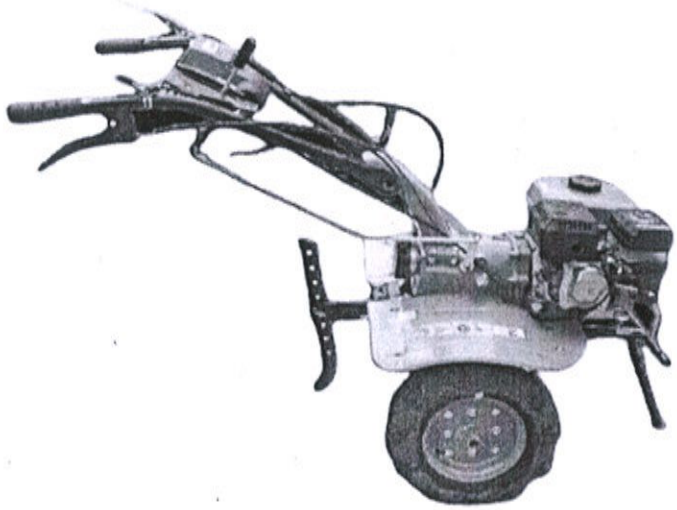
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)
COMMERCIAL TEST REPORT
(INITIAL)

संख्या/No: Machine-504/1519
समाह/Month: July, 2023
Validity: 30.06.2028



POWER WEEDER
AGRIPRO APC100FQ, WALK BEHIND

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 9001:2015 CERTIFIED INSTITUTE]

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Machine-504/1519	AGRIPRO APC100FQ, POWER WEEDER THIS TEST REPORT IS VALID UPTO 30.06.2028	COMMERCIAL (ICT)

Manufacturer : M/s. Chongqing Keye Power Machinery Manufacture Co. Ltd., Hailong Industrial Park, Baishiyi Town, Jiulongpo District, Chongqing, **CHINA.**

Applicant : M/s. IB Monotaro Private Limited, Plot No. 401, 402, First Floor, Ghitorni, MG Road, New delhi-110030, INDIA.

AGRIPRO APC100FQ, POWER WEEDER

Report No. : **Machine-504/1519** Month: **July** Year: **2023**

सत्यमेव जयते

Government of India
Ministry of Agriculture and Farmers Welfare
Department of Agriculture and Farmers Welfare
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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

17.1.1 The maximum and rated power was observed as 3.35 kW and 2.82 kW under natural ambient condition against the declared value of 4.2 kW and 4.2 kW respectively.

17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 550 g/kWh against the declared value of 340 g/kWh.

17.1.3 Back up torque of engine was observed as 10.33%.against declared value of 10%. This should be looked into for corrective action.

17.1.4 Max. torque was observed as 10.04 Nm against the declared value of 12 Nm.

17.2 The amplitude of mechanical vibration on various assemblies of the Power Weeder was observed 183 to 321micron. The mechanical vibration is directly concerned with Human/ Operator's Heath, Safety and Comfort. Mechanical vibrations on all other components were also observed on higher side which, inter alia adversely affecting the useful life of the components. In view of the above, this deserves to be top priority for corrective action.

17.3 The hardness of rotor blades does not confirm against the requirement of 56 ± 3HRC. This should be looked into for corrective action.

17.4 Chemical composition of rotor blades except silicon & manganese, Sulphur, Prosperous content, meet the requirement of relevant code. Therefore this may be looked into for corrective action.

17.5 The particulars provided on marking/labeling plate are not adequate. It is therefore recommended to provide the following details is unequivocal terms-:

I.	Manufacturer's & applicant (if any) address
II.	Year of manufacture
III.	Engine Number
IV.	Chassis Number
V.	Maximum Power (kW)
VI.	Specific fuel computation (g/kWh)

17.6 Technical literature:

User's manual cum parts catalogue in a single booklet was provided f reference during the test. It is, however recommended that same shou be revised and brought out in Hindi & regional languages as per 8132:1999 (Reaffirmed 2004) for the sake of user & technical personn in booklet form.

TESTING AUTHORITY

PRAMOD YADAV AGRICULTURAL ENGINEER	
P. KAMALABAI **SENIOR AGRICULTURAL ENGINEER/DIRECTOR(I/C)**	

18. APPLICANT'S COMMENTS:

Reference Points	Applicant's Comments
17.1.2	We will take corrective actions in specific fuel consumptio
17.1.3	We will take corrective action
17.2	We will raise and follow-up against this issue with our quality department and will take corrective actions for mechanical vibration in future products.
17.3	We will take corrective action according to IS 6690:1981
17.4	We will take corrective action
17.5	We will take corrective actions according to IS 10273:1987
17.6	User's manual cum parts catalogue will be revised and brought as per IS 8132:1999