



FORTUNEAGRO FAI - 120 D POWER WEEDER



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.)

Tractor Nagar, Garladinne-515 731, District: Anantapur (A.P.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

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Machine- 300/1055	FORTUNEAGRO FAI- 120 D POWER WEEDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Chongqing Aoxiong Machinery
Manufacturing Co. Ltd., **China**

Applicant : M/s. Fortune Agro Impex,
Fortune house, # 343, 9th Block,
Sir M. Visvesvaraya layout,
Kengunte 1st Main Road,
Bangalore - 560 056, Karnataka, **India.**

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Report No. : Machine- 300/1055 Month: August Year: 2019



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SOUTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, ANANTAPUR, (A.P.)	Page 2 of 31
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17. COMMENTS & RECOMMENDATIONS

17.1 Engine Performance:

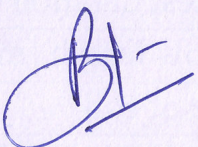
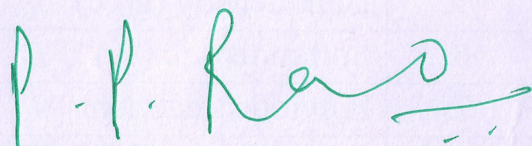
- 17.1.1 The maximum & rated power were observed as 6.8 kW under natural ambient condition against the declared value of 6.7 kW respectively.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power and at rated engine speed was recorded as 248 g/kWh against the declared value of 374 g/kWh.
- 17.1.3 Maximum torque was observed as 20.6 Nm against the declared value of 22.0 Nm.
- 17.1.4 Back up torque of engine was observed as 14.3 % against the declared value of 10 %.
- 17.2 Maximum Noise at operator's ear level was observed as 95 dB (A), which is higher as per ILO. Therefore corrective action to reduce the noise should also be taken.
- 17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed as higher side and to the maximum extent of 303 microns, Which is directly concerned with Operator's Health, Safety and Comfort. Besides, it also adversely affect the useful life of the components. In view of the above, this should be taken care for corrective action.
- 17.4 The hardness of Rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked in to for corrective action.
- 17.5 Chemical composition of rotary blades are not conforming the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked in to for corrective action.
- 17.6 The labeling plate should be provided as per the requirements of IS.

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17.7 Technical literature:

The user manual cum parts catalogue of engine and power weeder were supplied in a single booklet along with the test sample for reference during the test. It is however, recommended that same may be revised and bought out in Hindi & other regional languages 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	

18. APPLICANT'S COMMENTS

"With immediate effect we will inform to the production unit to take care the corrective actions before dispatching the material from the factory to the sales unit".