# व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT

(INITIAL)

संख्या / No: Machine-325/1100

Month: December, 2019 Validity: 30.11.2024



**KAMCO POWER WEEDER B 30** 



#### 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]

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

E-mail: <u>fmti-sr@nic.in</u> Tele./FAX: 08551-286441

**Machine- 325/1100** 

# **KAMCO POWER WEEDER B 30**

COMMERCIAL (ICT)

Manufacturer : M/s. Kerala Agro Machinery

Corporation Ltd., Athani P.O., Ernakulam Dist., Kerala - 683 585,

India

Applicant : The Manufacturer

#### KAMCO POWER WEEDER B30

Report No.: Machine-325/1100 Month: December Year: 2019



# **Government of India**

Ministry of Agriculture and Farmers Welfare Department of Agriculture, Cooperation 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: <a href="http://srfmtti.dacnet.nic.in/">http://srfmtti.dacnet.nic.in/</a>

E-mail: <a href="mailto:fmti-sr@nic.in">fmti-sr@nic.in</a>

**Machine-** 325/1100

# KAMCO POWER WEEDER B 30

COMMERCIAL (ICT)

#### 16. COMMENTS & RECOMMENDATIONS

# **16.1** Engine Performance:

- 16.1.1 The maximum power and rated power were observed as 2.9 & 1.3 kW respectively under natural ambient condition against the declared value of 2.9 kW.
- 16.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 361 g/kWh against the declared value of 348 g/kWh.
- 16.1.3 Max. Torque was observed as 8.87 Nm against the declared value of 8.20 Nm.
- 16.1.4 Back up torque of engine was observed as 8.57 %.
- 16.1.5 During varying speed test of engine at both natural & high ambient conditions after attaining max. torque at 8.87 Nm & 8.40 Nm respectively, while further loading, sudden drop of engine speed and thick black smoke was noticed.
- **16.2** Max. Noise at operator's ear level was observed as 85 dB (A).
- The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed on higher side and upto the maximum extent of 729 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.
- 16.4 The hardness of rotary blades does not conform to the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action.
- 16.5 Chemical composition of rotary blades are not conforming the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action

Machine-
325/1100

# KAMCO POWER WEEDER B 30

COMMERCIAL (ICT)

16.6 The provided labeling plate should be as per the requirement of IS.

### 16.7 Technical literature:

The instruction manual cum parts catalogue of power weeder and engine in a single booklet was supplied 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:**

C. C
BA
ER T. C. C. C. C. Comments Superior School Comments
1.1.19

#### 17. APPLICANT'S COMMENTS

Para No.	Our reference	Applicant's comments
17.1	16.3	Suitable Measures will be taken for corrective actions
17.2	16.4	Will be corrected
17.3	16.5	Will take necessary corrective actions
17.4	16.6	Will be corrected
17.5	16.7	Will be provided as per requirement