



**SWASTIK FARM KRAFTS SFK-296 CC 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.)

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<b>Machine- 287/1032</b>	<b>SWASTIK FARM KRAFTS SFK-296 CC POWER WEEDER</b>	<b>COMMERCIAL (ICT)</b>
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Name and address of manufacturer : M/s. Chongqing Guan Teng Industry Co. Ltd., Shuangfu Area, Jiangjin District, Chongqing, **China.**

Applicant : M/s. Swastik Fram Krafts,  
# 27/2 M, Ramaiah Industrial Area, Herohalli  
Cross, Magadi Main Road,  
Vishwaneedam Post,  
Bangalore- 560 091, Karnataka, India.

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Report No. : Machine-287/1032    Month: June    Year: 2019



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## **17. COMMENTS & RECOMMENDATIONS**

### **17.1 Engine Performance:**

- 17.1.1 The maximum power and rated were observed as 4.4 kW under natural ambient condition against the declared value of 4.2 kW.
- 17.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 202 g/kWh against the declared value of 290 g/kWh.
- 17.1.3 Max. torque was observed as 14.9 Nm against the declared value of 19 Nm. This should be looked into for corrective action.
- 17.1.4 Back up torque of engine was observed as 6.43 %, against the declared value of 10%. This should be looked into for corrective action.
- 17.2 Max. Noise at operator's ear level was observed as 93 dB (A), which is on higher side as per ILO. Therefore, it should be looked for corrective action.
- 17.3 The amplitude of mechanical vibration on most of the assemblies of the Power Weeder was observed as higher side and to the extent of maximum 347 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 rotor blades conforms to the requirement of IS 6690:1981 (Reaffirmed 2012).
- 17.5 All the constraints of chemical composition except silicon and manganese content of blades are conforming the requirement of IS 6690:1981 (Reaffirmed 2012). This should be looked into for corrective action.
- 17.6 Most of the parameters on labeling plate are provided as per IS requirement.

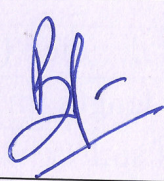
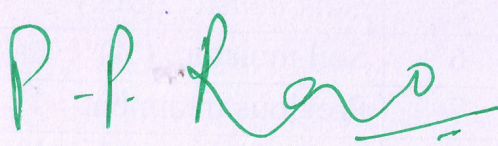


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### 17.7 Technical literature:

The Owner's manual and spare parts manuals of power weeder 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:

B.N. DIXIT AGRICULTURAL ENGINEER	
Dr. P.P. RAO DIRECTOR	

### 18. APPLICANT'S COMMENTS

"As per your recommendations, we will take all possible necessary corrective action in future production".