

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

संख्या/No: Machine-426/1371  
माह/Month: May, 2022  
Validity: 30.04.2027



**NIPHA 75GB POWER WEEDER**



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]**

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

<b>Machine-426/1371</b>	<b>NIPHA 75GB POWER WEEDER</b>	<b>COMMERCIAL (ICT)</b>
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Name and address of assembler : M/S. Nipha India Pvt Ltd,  
48, Ganga Jamuna, 28/1 Shakespeare  
Sarani Kolkata 700017, India

Applicant : M/S. Nipha India Pvt Ltd,  
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### **NIPHA 75GB POWER WEEDER**

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**SOUTHERN REGION FARM MACHINERY TRAINING &  
TESTING INSTITUTE, ANANTAPUR, (A.P.)**

**Page 2 of 31**

<b>Machine-426/1371</b>	<b>NIPHA 75GB POWER WEEDER</b>	<b>COMMERCIAL (ICT)</b>
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## 17. COMMENTS & RECOMMENDATIONS

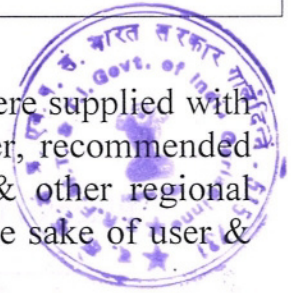
### 17.1 Engine Performance:

- 17.1.1 The maximum power and rated power were observed as 3.2&2.8 respectively 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 493 g/kWh against the declared value of 400g/kWh. This should be looked into for corrective action.
- 17.1.3 Max. Torque was observed as 9.57 Nm against the declared value of 12.5 Nm.
- 17.1.4 Back up torque of engine was observed as 2.46 %, against the declared value of 8%.
- 17.2 Max. Noise at operator's ear level was observed as 92 dB (A), which on higher side therefore necessary corrective action should be taken.
- 17.3 The amplitude of mechanical vibration on rotary shield cover of the Power Weeder was observed up to the maximum extent of 340 microns, which is on higher side therefore corrective action to reduce the vibration should be taken up .
- 17.4 The hardness of rotary blades do not conform to the requirement of IS 6690:1981 (Reaffirmed 2017). This should be looked into for corrective action.
- 17.5 Chemical composition of silicon content rotary blade is not as per the requirement of IS 6690:1981 (Reaffirmed 2019). This should be looked into for corrective action.
- 17.6 The percentage of air cleaner oil pull was during air cleaner oil pull over test power weeder was observed as from Nil to 0.11%.
- 17.7 The provided labeling plate is not as per the requirement of the IS.

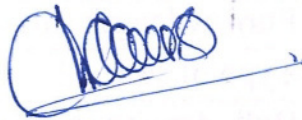

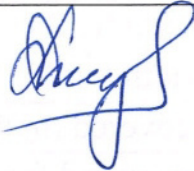
Machine- 426/1371	NIPHA 75GB POWER WEEDER	COMMERCIAL (ICT)
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**17.8 Technical literature:**

Operators manual and parts catalogs of power weeder were supplied with test sample for reference during the test . It is however, recommended that same may be revised and brought out in Hindi & other regional languages as per IS 8132:1999 (Reaffirmed 2004) for the sake of user & technical personnel.



**TESTING AUTHORITY:**

D.C. MOULI AGRICULTURAL ENGINEER	
P.KAMALABAI SENIOR AGRICULTURAL ENGINEER	
K.K. NAGLE DIRECTOR	

**18. APPLICANTS COMMENTS**

As a manufacturing company we will follow all your valuable comments to meet the indian standard to make thye machine more efficient and user friendly