

व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक)

संख्या / No: PT-138/1114

COMMERCIAL TEST REPORT

माह / Month: January, 2020

Validity: 31.12.2024

COMMERCIAL TEST (SECOND BATCH TEST)



**KAVI GN 15L POWER TILLER**



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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<b>PT- 138/1114</b>	<b>KAVI GN 15L POWER TILLER</b>	<b>COMMERCIAL (SECOND BATCH TEST)</b>
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Manufacturer : M/s. Changzhou Lianfa Machinery Co. Ltd., 292, North Xintang Road, Changzhou, Jiangsu– 213 021, **China.**

Applicant : M/s. Kavi Agro Agency, 164, Kumaran Road, Sangiliyandapuram Main Road, Trichy– 620 001, Tamil Nadu, **India.**

Indigenous/ Imported : **Imported**

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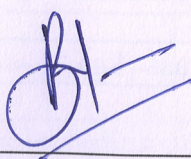
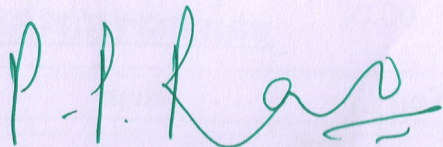
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PT-138/1114		KAVI GN 15L POWER TILLER		COMMERCIAL (SECOND BATCH TEST)
1	2		3	4
	-Maximum equivalent crankshaft torque, (Nm)	:	56.2	56.25
	-Back-up torque, (%)	:	6.04	7.14
	<b>Maximum temperature, (°C):</b>	:		
	-Engine oil	:	109	109
	-Coolant (water)	:	119	102
	-Exhaust gas	:	605	416
	-Air intake	:	51	44
	Lube oil consumption, (g/kWh)	:	0.49	0.83
<b>19.2.2</b>	<b>Rotary shaft performance:</b>			
	-Maximum power, (kW)	:	9.3	8.9
	-Specific fuel consumption corresponding to maximum power at rated engine speed, (g/kWh)	:	279	261
	-Maximum rotary shaft torque, (Nm)	:	462	483.5
	Maximum operating temperature of rotary transmission oil, (°C)	:	86	70
<b>19.2.3</b>	<b>Drawbar performance:</b>			
	Maximum drawbar power, (kW)	:	4.8	4.8
	Maximum drawbar pull, (KN)	:	3.8	3.85
	Maximum transmission oil temperature, (°C)	:	60	52
<b>19.2.4</b>	<b>Parking Brake:</b>			
	Maximum breaking device control force, (N)	:	259	275
	Efficacy of parking brake	:	Effective	Effective
<b>19.2.5</b>	<b>Noise measurement:</b>			
	Maximum noise at by-standard's position, dB(A)	:	82	83
	Maximum noise at operator's ear level, dB(A)	:	95	96
<b>19.2.6</b>	<b>Air cleaner oil-pull-over test:</b>			
	Maximum oil pull over (%)		0.22	0.16



PT- 138/1114	KAVI GN 15L POWER TILLER		COMMERCIAL (SECOND BATCH TEST)
	2	3	4
18.17	<b>Mechanical vibration:</b>		
	Maximum amplitude of vibration at, (micron):		
	-Gear shifting lever	: 113	180
	-Steering handle grip	: 97	200
	-Rotary shaft speed change lever	: 102	150
	-Steering clutch lever	: 96	240
	-Accelerator lever	: 197	420
18.18	<b>Haulage test:</b>		
	-Gross mass of trailer, (tones)	: 1.5	1.5
	-Av. traveled speed, (kmph)	: 15.85	15.56 to 15.80
	-Distance traveled per liter of fuel consumption, (km)	: 11.13	10.53 to 10.75
	-Av. fuel consumption, (cc/km/tonne)	: 59.90	62.02 to 63.31
18.19	<b>Maintenance/service problems:</b>	: None of the problems was observed in the previous sample.	None of the problems was observed in the present sample.
18.20	<b>Adequacy of literature:</b>	: Operation manual, Part catalogue and Workshop/service manual of Power Tiller and Engine.	Operation manual cum Part catalogue of Power Tiller and Engine.

**TESTING AUTHORITY:**

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

**20. APPLICANT'S COMMENTS**

Para No.	Our reference	Applicant's comments
20.1	18.17.3	As per your suggestion, we will inform to our manufacture to reduce the mechanical vibration of power tiller
20.2	18.17.4	As per your suggestion, we will inform to our manufacture to reduce the noise level of power tiller