

KISANKRAFT KK-PH2-215 PALM HARVESTER



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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Tele./FAX: 08551-286441

Machine - 339/1150	KISANKRAFT KK-PH2-215 PALM HARVESTER	COMMERCIAL (ICT)
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Manufacturer : M/s. Shandong Huasheng Pesticide Machinery Co. Ltd., No. 1, Zhongtian Road, High and New-tech Industrial Development Zone, Linyi - 276017, **China.**

Applicant : M/s. Kisankraft Limited
(Formerly known as Kisankraft Machine Tools Pvt. Ltd.) Sri Huchhanna Towers, #4, 1st main 7 A Cross, Maruthi Layout, Dasarahalli, HAF Post, Hebbal, Bangalore - 560024, Karnataka, India

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Report No.: Machine - 339/1150

Month: May

Year: 2020



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Ministry of Agriculture and Farmers Welfare
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Ring side clearance:

Rings	Ring side clearance, (mm)	Max. permissible clearance limit, (mm)
1 st Compression ring	0.04	0.15
2 nd Compression ring	0.04	

Main and big end bearings:

Main bearings:

No.	Types of Bearings	Diametrical clearance, (mm)	Crankshaft end float, (mm)	Max. permissible clearance limit,(mm)	
				Diametrical clearance	Crankshaft end float
1.	Ball bearing	NA	NA	Not applicable	NA
2.	Ball bearing	NA			

14.2 Transmission system:

All the gears of the transmission system were found in normal working condition.

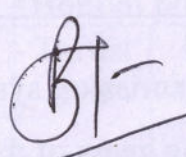
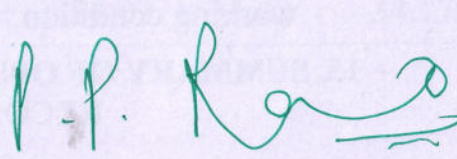
15. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATIONS

15.1	Engine Performance:
15.1.1	The maximum & rated powers were observed as 0.42 & 0.32 kW under natural ambient condition against the declared value of 0.80 kW.
15.1.2	Specific fuel consumption of engine corresponding to maximum power and at rated engine speed was recorded as 1232 & 1610 g/kWh against the declared value of 740 g/kWh. This should be looked into for corrective action.
15.1.3	Back up torque of engine was observed as 0.47 % .
15.1.4	Maximum torque was observed as 0.83 Nm against the declared value of 1.0 Nm.
15.2	Max. Noise at operator's ear level was observed as 96 dB (A).The noise observed at operator's ear level is more than the limit specified by ILO in the range of 85 to 90 dB(A). Necessary action may be taken for the comfort of operator.
15.3	The chemical composition of Saw blade and sickle blades do not meet the requirement of IS: 6025-1982. Therefore it should be looked into for corrective action.

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15.4	The hardness of chisel blade & saw blades do not meet the requirement of IS: 6025-1982. Therefore it should be looked into for corrective action.
15.5	The provided labeling plate should be as per IS
15.6	Adequacy of literature supplied with the machine:
	Operation manual and part's catalogue in English was supplied with the palm harvester for reference during the test. It is however, recommended that same may be revised and bought out as per IS 8132 : 1999 (Reaffirmed 2004) in Hindi and in some other regional languages for the sake of user & technical personnel.

TESTING AUTHORITY:

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

16. APPLICANT'S COMMENTS

Para No.	Our reference	Comments
16.1	15.1.1	The suggestions are noted and we will talk with our principle manufacturer
16.2	15.1.2	We will take necessary changes in further products
16.3	15.1.3	We will take necessary changes in further products
16.4	15.2	The suggestions are noted and we will talk with our principle manufacturer and will ask them to change in future product
16.5	15.3	We will take necessary changes in future products and will take corrective action on chemical composition
16.6	15.4	The suggestions are noted and we will talk with our principle manufacturer
16.7	15.5	We will provide in our future product
16.8	15.6	The suggestions are noted and we will talk with future product