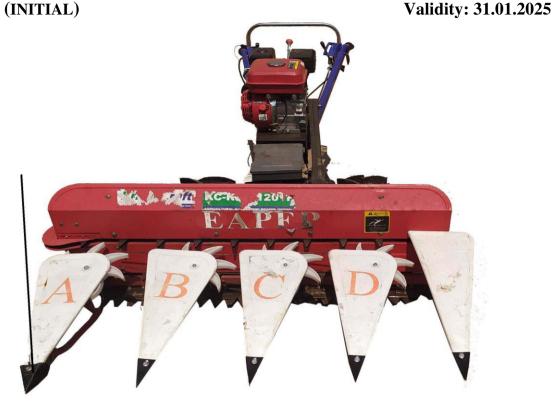
व्यावसायिक परीक्षण रिपोर्ट (प्रारंभिक) COMMERCIAL TEST REPORT

संख्या /No: Machine-329/1122 माह /Month: February, 2020



KRISHI CRAFT KC-RPR-1201 P POWER REAPER



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: fmti-sr@nic.in Tele./FAX: 08551-286441

Machine- 329/1122

KRISHI CRAFT KC-RPR-1201 P POWER REAPER

COMMERCIAL (ICT)

Manufacturer : M/s. Yancheng Xinmingyue Machinery

Manufacture Co., No. 11, Xinyang Road,

Tinghu District, Yancheng City,

Jiangsu Province, China.

Applicant : M/s. Kishan Agrotech,

Lukhy Garage, Dhamdha Road, Durg-

491 001, Chattisgarh, India.

KRISHI CRAFT KC-RPR-1201 P POWER REAPER

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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.)

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Machine-	KRISHI CRAFT KC-RPR-1201 P	COMMERCIAL
329/1122	POWER REAPER	(ICT)

- **16.8** The dimension of Knife does not conform, in full, to IS: 6025-1982.
- A safety pin at driven sprocket of conveyor chain is not provided to take of overloading of cutter bar. This should be looked into for corrective action.
- **16.10** Provided labeling plate should be as per the requirement of IS.

16.11 Field Performance Test:

16.11.1 Rate of work:

- i) The average area covered and time required for harvesting one hectare was recorded as 0.192 to 0.209 ha/h and 4.78 to 5.13 hours respectively.
- ii) The average hourly fuel consumption varies from 1.05 to 1.14 l/h & the fuel requires for harvesting one hectare area was recorded as 5.02 to 5.89 l/ha.
- iii) The average mass of straw with grain harvested was recorded as 19,600 to 24,308 kg/ha.
- iv) The average mass of grains recovered was recorded as 4,332 to 5,324 kg/ha.

16.11.2 Quality of work:

- i) The average post harvest loss was recorded as 0.01 to 0.09 %.
- ii) The average stubble height was recorded as 49.9 to 53.7 mm.
- iii) The crop harvested by the machine is left in windrows, which minimizes the time required for the collection and transportation of the crop.
- One skilled operator can operate the machine continuously for about two hours only. Hence, two skilled operators are required to operate the machine continuously and two unskilled labours for cutting of the crop on sides and corners of the field to be harvested.
- During engine test, the engine outer end of crank shaft where coupled to dynamometer got cracked. This should be looked into for corrective action on priority basis.

16.14 Wear of critical components:

- i) The wear rate of cutter bar on mass basis was recorded as 0.05 % per hour.
- ii) Hardness of movable & stationary blade conforms to the requirement as per IS 6025:1982 (Reaffirmed 1999.
- iii) The chemical composition of cutting (movable) blade and stationary blades are not conforming to the requirement of relevant code. Therefore, this should be taken care for corrective action.

Machine-329/1122

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COMMERCIAL (ICT)

16.15 Provision for safety:

A safety pin at driven sprocket of conveyor chain is not provided to take of overloading of cutter bar.

16.16 Technical literature:

The operation manual cum parts catalogue of reaper and engine in single booklet was supplied with the reaper 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	8	
Dr. P.P. RAO DIRECTOR	P.P. Ras	

17. APPLICANT'S COMMENTS

"We will inform all your recommendations to our manufacturer to make all possible and necessary changes for our future products".