



SWARNA AGRI-TECH SU-RY-4K50 REAPER CUM BINDER



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

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Machine-351/1168	SWARNA AGRI-TECH SU-RY-4K-50 REAPER CUM BINDER	COMMERCIAL (ICT)
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Manufacturer : M/s. Shandong Runyuan Industrial Company Ltd., No. 15, Linbo Road, Linqing City, Shandong Province, P.R. **China**

Applicant : M/s. Swarna Agri-Tech Consultants Engineers, D. No. 8-3-833/96, Plot No.96, Phase-I, Kamalapuri Colony, Sringer Colony Extn., Hyderabad-500073, Telangana, India.

SWARNA AGRI-TECH SU-RY-4K-50 REAPER CUM BINDER

Report No. : Machine-351/1168

Month: June

Year: 2020



सत्यमेव जयते

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- ii) The average hourly fuel consumption varies from 0.64 to 0.89 l/h & the fuel requires for harvesting one hectare area was recorded as 9.64 to 11.32 l/ha.
- iii) The average mass of straw with grain harvested was recorded as 19796 to 24712 kg/ha.
- iv) The average mass of grains recovered was recorded as 4583 to 5832 kg/ha.

17.11.2 Quality of work:

- i) The average post harvest loss was recorded as 0.45 to 1.78 %.
- ii) The average stubble height was recorded as 91.0 to 116.0 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.

17.12 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.

17.13 Wear of critical components:

- i) The wear rate of cutter bar on mass basis was recorded as 0.12 % per hour.
- ii) Hardness of movable & stationary blade conforms to the requirement of IS 6025:1982 (Reaffirmed 1999).
- iii) Chemical composition of movable and stationary blades are not conforming to the requirement of relevant code. Therefore, this should be taken care for corrective action.

17.14 Provision for safety:

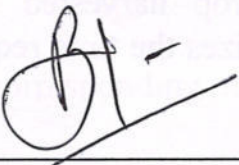

- i) A safety pin at Horizontal upper conveyor chain is provided to take of overloading of cutter bar.
- ii) Guards against all moving parts/drives and hot parts are provided

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17.15 Technical literature:

The operator's manual and parts catalogue of reaper and engine in a 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	
Dr. P.P. RAO DIRECTOR	

18.APPLCIANT'S COMMENTS

"Applicant comments received & incorporated in the test report".