

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

संख्या/No: IMP-547/1197
माह/Month: August, 2020
Validity: 31.07.2020



**GAYATHRI ENGINEERING WORKS GEW 8 SD SEED CUM
FERTILIZER DRILL (Tractor Mounted)**



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.)

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Manufacturer : M/s. Gayathri Engineering Works,
Sy. No. 464-2, Mohanraja Reddy Complex,
Near TV Tower, Ananthapuramu-515 002,
Anantapur Dist., Andhra Pradesh.

Applicant : The Manufacturer

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CI 12.2	The components shall be free from rust and shall have a protective coating to prevent surface deterioration in transit and storage	Components are free from rust and provided with paint to prevent deterioration of surface	Conforms
CI 12.3	The components should be free from pits, burrs and other defects that may be detrimental for their use.	Satisfactory	Conforms

CI 14	Marking & Packing:		
CI 14.1	Each drill shall be marked with the following particulars:		
	a) Indication of the source of Manufacture	Provided	Conforms
	b) Model, code and serial number;	Provided	Conforms
	c) Type	Not provided	Does not conform
	d) Size	Not Provided	Does not conform
	e) Type of seeds(suitability)	Not Provided	Does not conform
	f) Mass	Not Provided	Does not conform

11. COMMENTS & RECOMMENDATIONS

- 11.1 Dimensions of three point linkage system of seed cum fertilizer drill does not conform to IS 4468 (Part 1):1997 . This should be looked into for corrective action.
- 11.2 The seed and fertilizer box should be provided with self-locking mechanism on being opened.
- 11.3 Accessories like foot board, row marker, press wheel and area recorder need to be provided.
- 11.4 The hardness of shovel was recorded as 218.4 to 238.1HB, against the requirement of 350 to 450 HB. This should be looked into for necessary improvements in the quality of material of shovel.


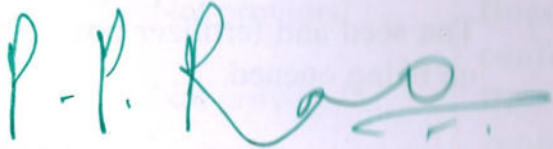
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- 11.5 Suitable clutches are not provided to stop the movement of metering mechanisms when the wheels are turned in reverse direction. This should be looked into.
- 11.6 It is recommended that a permanent metallic calibration plate indicating metering position and quantity of seed and fertilizer should be attached under the top cover of the seed box.
- 11.7 The variation in dropping due to box filling at 3/4th, 1/2nd and 1/4th of rated capacity was excessive and calls for improvement in the design.
- 11.8 The variation of dropping of seed due to change of speed is not conforming to the limit specified in IS 6813:2000. Therefore, this should be looked into for corrective action.
- 11.9 The provided labeling plate should be as per the requirement IS.

11.10 Technical Literature:

Operation manual, Service manual, Maintenance manual and Spare part catalogue of seed cum fertilizer drill in English was provided in a single booklet form for reference during the test. However, this may be brought out in Hindi and 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	

12. APPLICANT'S COMMENTS

We have gone through the draft test report. We will take possible steps on your comments for development of our future products.