



**NEW CHAND ENGINEERING WORKS NCEW 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, Garlandinne-515 731, District: Anantapur (A.P.)  
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<b>IMP- 546/1196</b>	<b>NEW CHAND ENGINEERING WORKS NCEW 8 SD SEED CUM FERTILIZER DRILL (Tractor Mounted)</b>	<b>COMMERCIAL (ICT)</b>
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Manufacturer : M/s. New Chand Engineering Works, Opp. Old Rajahamsa Apartment, Near Petrol Bunk, RTC Bus Stand-Gooty Road, Ananthapuramu-515001, Anantapur Dist., Andhra Pradesh, India.

Applicant : The Manufacturer

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DRILL (Tractor Mounted)

Report No.: IMP-546/1196

Month: August

Year: 2020



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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	<b>Marking &amp; Packing:</b>		
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	<b>Does not conform</b>
	d) Size	Not Provided	<b>Does not conform</b>
	e) Type of seeds(suitability)	Not Provided	<b>Does not conform</b>
	f) Mass	Not Provided	<b>Does not conform</b>

## 11. COMMENTS & RECOMMENDATIONS

- 11.1 All dimensions except Mast height of three point linkage system of the seed cum fertilizer conforms 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 268.4 to 293.5 HB, 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 the 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 3/4<sup>th</sup>, 1/2<sup>nd</sup> and 1/4<sup>th</sup> 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 in to 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 parts 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 make all necessary possible changes in our future products.