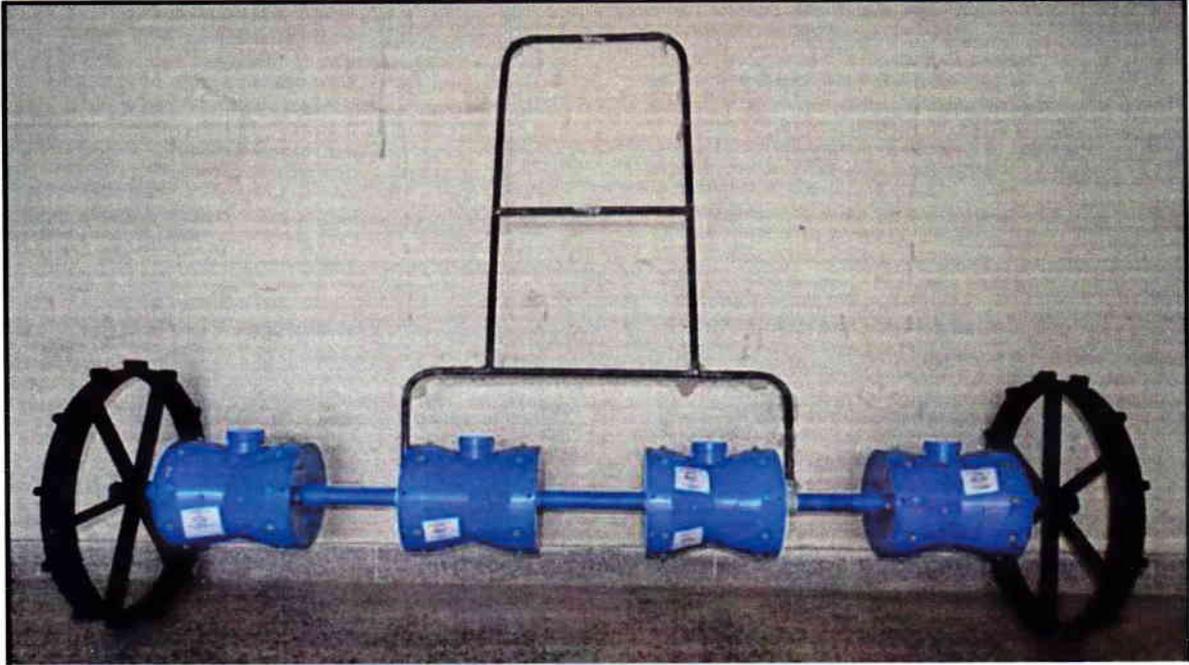


व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT

संख्या / No.: Imp. 175/230

माह / Month: September, 2015

Ref. 107



HARITA, PADDY DRUM SEEDER



सत्यमेव जयते

भारत सरकार  
GOVT OF INDIA

कृषि एवं किसान कल्याण मन्त्रालय

MINISTRY OF AGRICULTURE & FARMERS WELFARE

कृषि, सहकारिता एवं किसान कल्याण विभाग

DEPARTMENT OF AGRICULTURE, COOPERATION AND FARMERS WELFARE

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान

NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

विश्वनाथ चारिआलि, जिला-शोणितपुर (असम)

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**1. SCOPE OF TEST**

The scope of test was to check and assess the following:

**1.1 LABORATORY TEST**

- Checking of specifications
- Variation in dropping of seeds through different orifices
- Evenness of seed distribution

**1.2 FIELD TEST**

- Rate of work
- Quality of work
- Field efficiency and labour requirement
- Ease of operation, maintenance and adjustments
- Defects, Breakdowns and Repairs

**2. METHOD OF SELECTION**

The Paddy Drum Seeder was directly submitted for test by the applicant at this Institute. Hence, the method of selection is not known.

**3. TEST CODE AND PROCEDURE**

There is no test code available for the testing of manually-operated Paddy Drum Seeder, as such. Therefore, the test procedure was evolved by the Institute with the agreement of the applicant.

**4. SPECIFICATION****4.1 General:**

Name and address of the manufacturer	: M/s. The Delhi Agro Industrial Traders, 1450 Paposian, Narela, Delhi-110040
Name & Address of Applicant	: M/s. The Delhi Agro Industrial Traders, 1450 Paposian, Narela, Delhi-110040
Type	: Manually operated
Make	: HARITA (apa)
Model	: 2015 (apa)
Year of manufacture	: 2015 (apa)
Serial No.	: Not provided
Utility	: For sowing pre-germinated paddy seed.

### 8. EASE OF OPERATION AND ADJUSTMENTS

No difficulty was observed in operation and maintenance of the machine. However, the operator\* can pull the Drum Seeder maximum for 30-45 minutes continuously.

\* **Operator:** The operator bears good health and weight as per BMI i.e., Body mass (kg) - 70, Height (cm)-165 and Age (years) - 36.

### 9. DEFECTS , BREAKDOWN AND REPAIR

No major defects and breakdowns of the machine were observed during the period of test.

### 10. RECOMMENDATIONS

#### 10.1 **Performance:**

10.1.1 The percentage of inter-opener variation in seed dropping was recorded as 6.3 to 4.7% and found satisfactory.

10.1.2 The average number of seeds dropped per hill was recorded as 7 to 8.

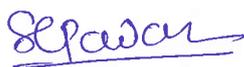
10.1.3 The average deviation of seeds from center line was recorded as 8.6 to 15 mm, which has been considered on higher side and calls for improvement.

#### 10.2 **Lebelling of the drum seeder:**

A labeling Plate indicating, Manufacturer's name and recognized trade-mark, Make, Model, Type, Batch number, Code or Serial number, Year of manufacture should be provided on the machine.

10.3 Necessary tools may be supplied with the drum seeder to attend the adjustment and repair.

### TESTING AUTHORITY



**S. G. PAWAR**  
AGRICULTURAL ENGINEER



**J. J. R. NARWARE**  
DIRECTOR

Test conducted and report compiled by - Sh. P. Lodh, Technical Assistant

**11. APPLICANT'S COMMENTS**

<b>Para No.</b>	<b>Our reference</b>	<b>Applicant's Comments</b>
11.1	10.1.3	This is natural during operation of machine due to vibration as the seed will take its own movement in different directions while passing the seed from any side of 9 mm orifice. We have already optimized the design to minimize the deviation which is bare minimum and is around half inch and less than one inch. This is necessary also for increasing productivity and production.