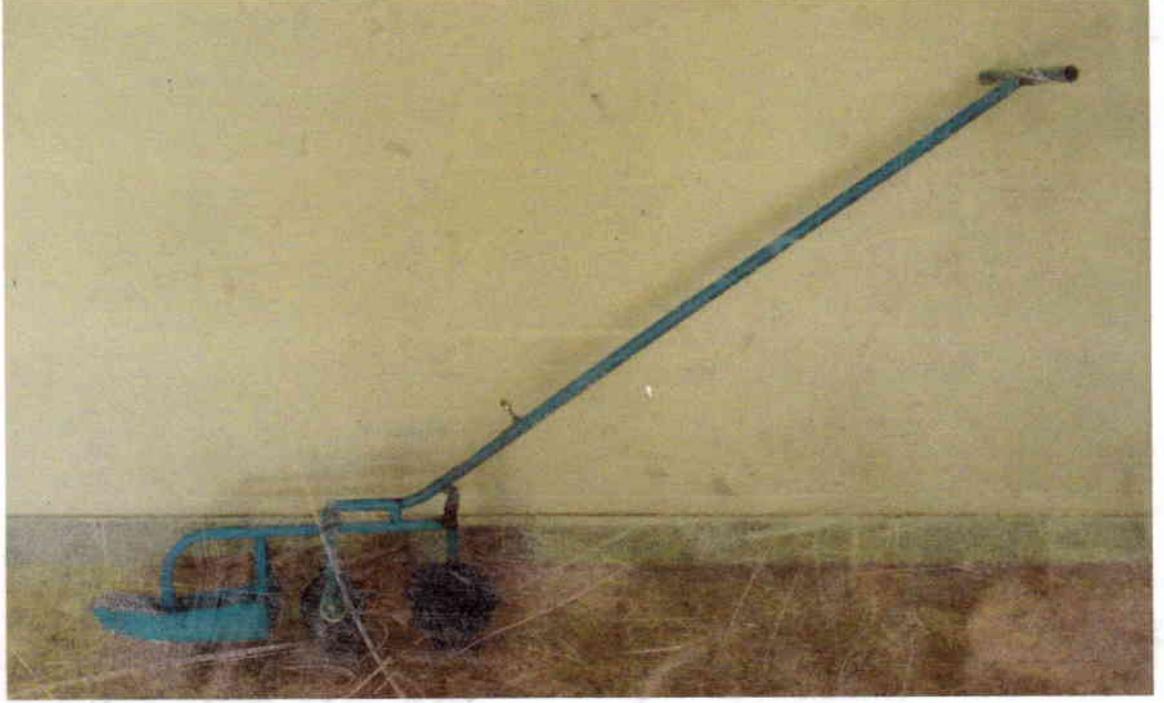


व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT

संख्या / No. : Imp. 82/122  
माह / Month : March, 2011



**SHIVAJI CONO WEEDER**



सत्यमेव जयते

भारत सरकार  
GOVT OF INDIA

कृषि मन्त्रालय  
MINISTRY OF AGRICULTURE

कृषि एवं सहकारिता विभाग  
DEPARTMENT OF AGRICULTURE AND COOPERATION

उत्तर पूर्वी क्षेत्र कृषि यंत्र प्रशिक्षण एवं परीक्षण संस्थान  
NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE

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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
- Wear analysis of critical components

### 1.2 FIELD TEST:

- Rate of work.
- Quality of work
- Labour requirement
- Ease of adjustment and operation
- Defects, Breakdowns & Repairs

## **2 METHOD OF SELECTION**

The implement was directly submitted by the applicant at this Institute. Hence method of selection is not known.

## **3 TEST PROCEDURES**

There is no test code available for the Cono Weeder as such. The guidelines, therefore, has been taken from the following standard and test code:

- i) IS 1976:1976: Specification for rotary paddy weeder, manually-operated.
- ii) IS 7927:1975: Method of field testing for manually-operated paddy weeder.

## **4 SPECIFICATIONS**

### 4.1 General:

Manufacturer	:	M/s Ramteke Agricultural works, At and Post : Khandala, Te : Sakoli, Dist: Bhandara (MS) – 441802
Name of implement	:	Cono weeder
Type	:	Double row
Make	:	Ramteke
Model	:	Shivaji, Single handed(apa)

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### 8. EASE OF ADJUSTMENT AND OPERATION

- 1 Height of handle can be adjusted as desired
- 2 There is no provision for adjusting handle angle and float angle.

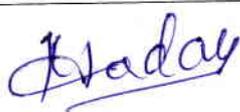
### 9. BREAKDOWNS AND REPAIRS

After 10.03 hours of operation, welding joint on frame, for mounting rear weeding roll, broke out, this was re-welded for conducting further test operations.

### 10. COMMENTS AND RECOMMENDATIONS

- i. Material for tines and float does not meet the requirements of IS 1976:1976. Hence it should be looked into for corrective action.
- ii. Angle regulator is not provided for changing the float angle, as well as the handle angle. Suitable modification therefore needs to be done.
- iii. Welding joints on the weeder at few places is not satisfactory at all. This should be looked into for corrective measures.
- iv. It is recommended that the weeder should be marked with details like manufacturer's name and trade mark, Serial number/code, etc. Size of the weeder should also be declared by the manufacturer.
- v. The manufacturer has not developed the Operator's Manual, Part's Catalogue and Service Manual, etc. Hence the same should be provided containing performance, special features, drawing and dimensions of the weeder in English, Hindi and other regional languages.

### TESTING AUTHORITY

H. L. YADAV (AGRICULTURAL ENGINEER)	
P. K. PANDEY (SENIOR TEST ENGINEER)	
M.K.VISHWAKARMA (DIRECTOR)	

**11. APPLICANT'S COMMENTS**

One copy of the draft report was made available to the applicant. No comments, however, was received.