व्यावसायिक परीक्षण रिपोर्ट **COMMERCIAL TEST REPORT**

संख्या/No.:

Imp.114/161

माह/Month: September, 2012



BANABETHI CONO WEEDER



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

विश्वनाथ चारिआलि, जिला-शोणितपुर (असम)

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1 SCOPE OF TEST

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

LABORATORY TEST:

- Checking of specifications
- Wear analysis of critical components

1.2 FIELD TEST:

- Rate of work.
- Quality of work
- Labour requirement
- Ease of operation, maintenance and adjustments
- 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 Cono Weeder as such. The guidelines, therefore, has been taken from the following Standard/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 : Banabethi

63/4, Nabalia Para Road

Behala Chowrastha

Kolkata, West Bengal- 700 008

Name of machine : Banabethi Cono weeder

Type : N.A.

Make : Banabethi

Model : N.A.

NORTH EASTERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE, PO: BISWANATH CHARIALI ,DISTRICT: SONITPUR (ASSAM) –784 176 Imp.114/161

BANABETHI CONO WEEDER - [Commercial Test]

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Serial number

Year of manufacture N.A.

Interculture operation in paddy Utility

crop.

N.A.

Source of power Manual

4.2 Constructional Details

4.2.1 FRAME

Constructional details : It is fabricated from MS hollow pipe of

dia. 23 mm. Float is welded with the main frame. Provision is made on the

frame for attaching the weeding rolls.

Dimensions of frame (mm)

Length 680(curved)

Width (max) 148

4.2.2 FLOAT(SLEIGH)

Material MS Sheet

Dimensions(mm)

Length 335(Curved) Width (max) 225(Curved)

Thickness 1.0

Location Welded at the front of the frame.

Provision for adjustment of Not provided

angle

4.2.4 WEEDING ROLLS

Number 02 (Two) Material MS Sheet

Constructional Details It is fabricated in conical shape from

1.80 mm thick M.S. sheet. These sheets are in effect, soil engaging parts. There are two weeding rolls with twelve such sheets in each roll. Out of twelve sheets,

alternatively six are having notches.

· Size of notched soil engaging: 79 x 28 x 1.80 (thickness) sheet(mm)

10. COMMENTS AND RECOMMENDATIONS

- 1. The weeding efficiency was observed as 48% to 51%, which is considered as far from satisfactory. The necessary action for the improvement may be undertaken.
- 2. Material for tines and float does not meet the requirement of IS 1976:1976. Hence it should be looked into for corrective action.
- 3. It is recommended that the weeder should be marked with details like manufacturer's name and trade-mark, serial number/code, etc. in a metallic plate rigidly fixed on the handle, as required by IS: 1976-1976. Size of the weeder should also be declared by the manufacturer.
- 4. Operator's manual, part's catalogue and service manual should be brought out in accordance with IS: 8132-1999.

TESTING AUTHORITY

P. K. PANDEY SENIOR AGRICULTURAL ENGINEER	43n-1m58b
M.K.VISHWAKARMA DIRECTOR	ABSEN

Test Report compiled by Shri P.C. Dihingia, S.T.A.

11. APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's Comments
11.1	10.2	We will surely try to improve the weeding efficiency of our machine in every possible way, in future.
11.2	10.3	Operator's manual, parts catalogue & service manual will be provided along with the machine