COMMERCIAL TEST REPORT

No. : PS 83/1374
Month : September, 2011

TRACTOR OPERATED POWER SPRAYER
"VIJETA"

GOVERNMENT OF INDIA
MINISTRY OF AGRICULTURE
(DEPARTMENT OF AGRICULTURE & COOPERATION)

NORTHERN REGION FARM MACHINERY TRAINING AND TESTING INSTITUTE
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<th>Clause No.</th>
<th>Specified requirements as per Indian standard</th>
<th>Observations</th>
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**Cl. 3 MATERIALS**

**IS: 11313-Dec. 2004**

**Cl. 3.2**

All metallic parts coming in contact with the pesticide should preferably be of the same material to minimize bimetallic corrosion.

All the parts coming in contact with pesticide are made of brass.

Conforms

**Cl. 3.3**

The material used for different components shall be declared by the manufacturer in the manual.

Declared in the pump manual

Conforms

**Cl. 4 PERFORMANCE REQUIREMENTS**

**IS: 11313- Dec. 2004**

**Cl. 4.1**

When tested in accordance with the method given in 6.1.1.1 of IS: 8548-1990, the pump shall be capable of discharging a minimum of 800 ml water per minute at its rated speed and rated pressure.

Pump discharge rate is 9060 ml/ min. of water at 900 rpm of pump shaft & 35 Kg/cm² Pressure.

Conforms

**Cl. 4.1.1**

The discharge rate shall be declared by the manufacturer.

Declared 39 to 50 l/min.

Conforms

**Cl. 4.2.**

The volumetric efficiency shall be minimum 75 percent.

Volumetric efficiency is more than 75.7%

Conforms

**Cl. 4.3**

Endurance test shall be done in accordance with 7 of IS:8548-1990.

Endurance test completed satisfactorily

Conforms

NORTHERN REGION FARM MACHINERY TRAINING & TESTING INSTITUTE-HISAR
6. **COMMENTS :-**
Tractor operated hydraulic sprayer Vijeta conforms all the required specified in Indian standard except requirement given below. These should be added at manufacturing in future production.

i) Three point linkage system of the sprayer is not conforming with the requirement of IS:4468-March 2007 (please refer para 4.9 of the test report for more details).

ii) Cl. 5.2 IS:11313 Dec-2004 – Declaration of pump output at maximum pressure & rated rpm.

iii) Cl.5.9 IS:11313 Dec 2004 – Suction Spout

iv) Cl.5.10 IS:11313 Dec 2004 – Delivery Spout

v) Cl. 6.5 IS:8548-2004 - Mechanical Vibration

vi) Cl.7.1(c) IS:11313-Dec 2004 - Making of Batch or code number.
    (Please refer para 5 of the test report for more details).

**TESTING AUTHORITY**

<table>
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<tr>
<th>(R. M. TIWARI) ASSISTANT ENGINEER (W/S)</th>
<th>[Signature]</th>
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<tr>
<td>(P. K. CHOPRA) SENIOR AGRICULTURAL ENGINEER</td>
<td>[Signature]</td>
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<tr>
<td>(A. N. MESHRAM) DIRECTOR</td>
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**APPLICANT'S COMMENTS**

We will make improvements in future according to your comments.