COMMERCIAL TEST REPORT

BATTERY OPERATED KNAPSACK SPRAYER
“Govind Agrimax-Electra Max GBS 16 Cl”

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

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<th>Clause No.</th>
<th>Specified requirement</th>
<th>Observations</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cl. 4.3</td>
<td>All metallic parts coming in contact with the pesticides, should preferably be of the same material to minimize electrolytic corrosion</td>
<td>Metallic parts coming in contact with pesticides are of engg. plastic</td>
<td>Conforms</td>
</tr>
<tr>
<td>Cl. 4.4</td>
<td>The material used for different components shall be declared by the manufacturer in the manual</td>
<td>Declared</td>
<td>Conforms</td>
</tr>
<tr>
<td>5. Performance requirement</td>
<td>When tested in accordance with the method given in 6.1.3 of IS: 10134-Dec. 2004 the pump shall be capable of discharging a minimum of 500 ml of water per minute</td>
<td>Pump is capable of discharging the water 940 ml/min.</td>
<td>Conforms</td>
</tr>
<tr>
<td>5.2 Volumetric Efficiency</td>
<td>When tested in accordance with the method given in -6.2 of IS: 10134-Dec. 2004, the volumetric efficiency shall be not less than 80 percent</td>
<td>Not applicable, as there is battery operated diaphragm pump for which it is not possible to find out actual displacement of pump.</td>
<td>--</td>
</tr>
<tr>
<td>Cl. 6 IS:3906-Feb. 2006 Constructional requirements: Cl. 6.1 Tank</td>
<td>The tank capacity shall be 10, 14, 16 or 18 litres with a tolerance of ± 0.5 litre</td>
<td>The tank capacity is 16 litres</td>
<td>Conforms</td>
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<tr>
<td>Cl. 6.1.1</td>
<td>The thickness of sheet used in manufacture of brass tank shall be minimum of 0.63 mm ± 0.03 mm</td>
<td>Not applicable, as the tank is made of HDPE.</td>
<td>Conforms</td>
</tr>
<tr>
<td>Cl. 6.1.2</td>
<td>The tank when filled up to its neck level with water shall not show any sign of leakage and shall not buckle</td>
<td>No sign of leakage buckling in tank is noticed, when filled up to the neck level with water.</td>
<td>Conforms</td>
</tr>
<tr>
<td>Cl. 6.2 Skirt/Stands</td>
<td>The tank shall be provided with a skirt/stand which shall project a minimum of 12mm beyond the lowest portion of the bottom of the tank</td>
<td>The tank is provided with a stand which is extended up to 12 mm beyond the lowest portion of the bottom of the tank</td>
<td>Conforms</td>
</tr>
</tbody>
</table>
6. COMMENTS:

1. Govind Agrimax-Electro Max battery operated continues sprayer does not conform the following requirements specified in Indian Standard. These should be included to make sprayer as per Indian Standard.
   - Cl. 6.5 IS: 3652 – 2004- Threaded connections
   - Cl. C-10 IS: 3652-2007 Batch No. Code No. and marking
   - Cl. 6.8.3: Sub Clause 3.1.6 of IS:3652-2004- minimum thickness of wall tube
   - Cl. 6.8.3 Sub Clause D5 of IS:3652-2004-Marking of lance
   - Cl. 6.14 Sub clause F 3.1.3-IS:3652-2004-Rate of discharge
   - Cl. 6.14 Sub Clause F 3.2 IS:3652-2004-Spray angle
   - Cl.6.14 Sub. Clause F 11(b) IS:3652-2004 Nozzle designation
   - Cl. 9 IS:3906-Feb. 2004 – Marking and packing (batch No. & code No.)


TESTING AUTHORITY

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Test conducted/report compiled by Sh. Ram Dayal, Training Asstt.

Applicants comments : No comments received.