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व्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT

संख्या / No. : Imp.126/ 173  
माह / Month: March, 2013



S. KUMAR POTATO PLANTER



सत्यमेव जयते

भारत सरकार

GOVT OF INDIA

कृषि मन्त्रालय

MINISTRY OF AGRICULTURE

कृषि एवं सहकारिता विभाग

DEPARTMENT OF AGRICULTURE AND COOPERATION

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DATE 02/4/13

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## 1. SCOPE OF TEST

M/s Gobind Industries Pvt. Ltd., Village Dharsaniya, Lucknow Road, (Near Safedabad Railway Crossing), Barabanki – 225001, U.P. submitted Potato Planter for test. The Potato Planter was tested in accordance with IS 9856-1999.

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

- 1.1 Specification and other data furnished by the applicant.
- 1.2 Field performance and suitability of machine for sowing potato seeds with regards to:
  - i) Metering mechanism to meter seeds at desired seed rate
  - ii) Quality of work
  - iii) Rate of work
  - iv) Fuel consumption
- 1.3 Ease of operation & adjustment
- 1.4 Hardness and chemical composition of critical components
- 1.5 Nature of breakdowns and repairs

## 2. METHOD OF SELECTION

The test sample was directly submitted by the applicant, for test, at this Institute. Hence, Method of selection is not known.

## 3. TEST CODE/PROCEDURE

- |                    |   |
|--------------------|---|
| i) IS: 11893-1997  | : Specification for Potato Planter, Semi Automatic                |
| ii) IS: 9856-1999  | : Test code for Potato Planters                                   |
| iii) IS: 4468-2007 | : Agricultural wheeled tractors-rear mounted three point linkages |

## 4. SPECIFICATIONS

### 4.1 General

- |                                 |   |
|---------------------------------|---|
| Name of machine                 | : S Kumar Potato Planter  |
| Manufacturer's name and address | : Gobind Industries Pvt. Ltd.<br>Village Dharsaniya, Lucknow Road,<br>(Near Safedabad Railway Crossing)<br>Barabanki – 225001, U.P. |
| Make                            | : S Kumar   |
| Model                           | : S Kumar   |
| Type                            | : Mounted.  |
| Serial No.                      | : 690   |
| Year of manufacture             | : Not specified   |
| Prime Mover used during test    | : New Holland 7500 Tractor  |

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- 10** Ease of operation, adjustment and safety : The potato planter is manual feeding system which eliminates the problems of missed, accumulations and elevating errors.
- 11** Defects, breakdowns and repairs : One no. of M.S. bracket fitted with the ridger got detached after completion of 33.5 hrs. of operation

### **11. COMMENTS & RECOMMENDATIONS**

- 12.1** The dimensions of the three point linkage (Hitch pyramid) of the implement does not conform to IS:4468-2007. This should be incorporated at production level.
- 12.2** Material of bush does not conform to IS:11893-1997 and it should be looked into at further production level.
- 12.3** Row spacing does not conform to IS:11893-1997. This should be looked into and has to be incorporated at production level.
- 12.4** Instruction manual should be provided with the planter. It should also be provided with a manual containing maintenance, safety instruction and calibration chart.
- 12.5** As per IS:11893-1997 row maker and area recorder should be provided with the planter. This should be incorporated at production level.
- 12.6** In oil points hole should be provided for proper lubrication.
- 12.7** Hardened steel bolt & nut should be provided in the soil engaging parts to avoid frequent loosening from body.

### **12. ADEQUACY OF LITERATURE**

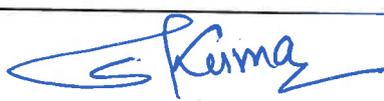
Literature is not provided with the planter. A booklet containing figure of the machine, brief specifications, salient features, service & maintenance schedule, precautions and calibration chart should be provided for the guidance of the farmers and field personnel.

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### 13. APPLICANT'S COMMENTS

The applicant has no comments on the machine.

### TESTING AUTHORITY

SANJAY KUMAR AGRICULTURAL ENGINEER	
M. K. VISHWAKARMA DIRECTOR	

Test conducted/report compiled by: Shri P. C. Dihingia, Instructor