

THIS TEST REPORT VALID UP TO : 31st May, 2027



**SHAKTI, SBS-600
BATTERY OPERATED KNAPSACK SPRAYER
WITH SOLAR PANEL**



भारत सरकार
Government of India
कृषि एवं किसान कल्याण मंत्रालय
Ministry of Agriculture and Farmers Welfare
कृषि एवं किसान कल्याण विभाग
Department of Agriculture and Farmers Welfare
उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
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16.	Making/26abelling of sprayer	The 26abelling plate should be provided on the body of sprayer having name & address of manufacturer, month & year of manufacture, rated pressure, discharge rate, country of origin.	Just a sticker and not proper labelling plate is provided on the sprayer with following information Make - Shakti Model - SBS-600 Sl. No. – BS-06/22 Mfg. - January, 2022 Shakti Agro Industries Arjun Nagar, Gill road, Ludhiana-141003, Punjab	Conforms
17.	Literature	Operator manual, service manual & parts catalogue should be provided.	Provided	Conforms

Note: - The implementation of the critical technical specification has been deferred till 30.09.2022 vide Ministry's O.M. No. 13-1/2021 M&T (I&P) dated 03.02.2022

18. CONFORMITY TO INDIAN STANDARDS

- i) IS: 11313:2007 Hydraulic power sprayers- : **Partially conform**
specification
- ii) IS: 10134-1994-Method of test for manually : **Partially conform**
operated sprayer
- iii) Spray nozzle and spray gun as per IS:3652-1995 : **Partially conform**
(Reaffirmed 2011)

19. COMMENTS & RECOMMENDATIONS

- 19.1** The discharge rate of nozzle at a pressure of 300 kPa for jet spray pattern does not conform to the requirement of IS:3652-1995. It **MUST** be looked into.
- 19.2** The strainer in nozzle is not provided. It may be provided.
- 19.3** The strainer in cut-off device is not provided. It **MUST** be looked into.
- 19.4** Agitator is not provided. It may be provided.
- 19.5** The manufacturer's name or recognized trade mark, batch or code number and designation of nozzles is not provided. It **MUST** be looked into.
- 19.6** The manufacturer's name or recognized trade mark, nominal length and batch or code number of lance is not marked. It **MUST** be looked into.
- 19.7** The manufacturer's name or recognized trade mark, type of cut-off device and batch or code number is not marked. It **MUST** be looked into.
- 19.8** Necessary tools are not provided with sprayer. It **MUST** be provided.

- 19.9** The volumetric efficiency of pump does not meet the requirement of Indian Standard. It **MUST** be improved.
- 19.10** During the hydraulic test of pump, the motor stopped beyond 5.1 kg/cm² pressure against the pressure requirement of 7.5 kg/cm² and the test could not be conducted. This **MUST** be looked into and improved.
- 19.11** The strap cushion thickness does not meet the requirement of Indian Standard. It may be looked into.
- 19.12** The dimension of straps do not meet the requirement of Indian Standard. It **MUST** be looked into.
- 19.13** The discharge outlet nipple length does not meet the requirement of Indian Standard. It **MUST** be improved.
- 19.14** During the strap drop test, the buckle/bracket of strap assembly failed to hold the strap in its position. It should be improved as per relevant standard.
- 19.15** A suitable labeling plate (not sticker) needs to be provided with “Interlia” following information.
- (i) Manufacturer’s name
 - (ii) Make
 - (iii) Model
 - (iv) Month & year of manufacturer
 - (v) Rated speed
 - (vi) Rated pressure
 - (vii) Discharge rate
 - (viii) Power rating
 - (ix) Country of origin
- 19.16 Safety provision/Safety wear**
The safety instructions regarding handling poisonous agrochemical before, during and after spraying operation should be provided on sprayer.


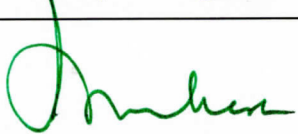
20. TECHNICAL LITERATURE

The following literatures are provided with sprayer for guidance to the user.

- i. Operator Manual
- ii. Service manual
- iii. Parts catalogue

However, the manuals of sprayer should be updated as per IS:8132–1999

TESTING AUTHORITY

Er. SANJAY KUMAR AGRICULTURAL ENGINEER	
Dr. MUKESH JAIN DIRECTOR	 30.05.2022

The Draft test report compiled by Abhishek Chourey, MTS (Technical)

22. APPLICANT'S COMMENTS

We will follow all points under comment and recommendations of test report in our production and testing process.