

व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT

संख्या / No.: MTB - 17/2973/2023
माह / Month: March, 2023

THIS TEST REPORT VALID UP TO : 31st March, 2028



**KRISHIGATI PRIVATE LIMITED, KPL 2.1 WB,
SELF PROPELLED ELECTRIC AGRICULTURAL
TOOL BAR (KRISHIGATI ELECTRIC BULL)**



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

Northern Region Farm Machinery Training and Testing Institute

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Page 1 of 40

MTB-17/2973/2023	KRISHIGATI PRIVATE LIMITED, KPL 2.1 WB, SELF PROPELLED ELECTRIC AGRICULTURAL TOOL BAR (KRISHIGATI ELECTRIC BULL) (COMMERCIAL)
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26. CRITICAL TECHNICAL SPECIFICATIONS

[Vide Ministry O.M. No. 13-9/2019-M&T (I&P) dated 26.04.2019.]

1.	Tank capacity	Should not be less than 100 lit.	Not applicable for self propelled electric agricultural tool bar	--
2.	Provision for folding boom	Must be provided	Provided	Conforms
3.	Pressure regulator	Must be provided	Provided	Conforms
4.	Pressure gauge with pressure dampener	Liquid filled pressure gauge must be provided	Liquid filled pressure gauge is provided.	Conforms
5.	Discharge rate, ml/min	Min 8000, at rated speed and rated pressure	Not applicable for self propelled electric agricultural tool bar	--
6.	Strainer at filling hole	Must be provided	Provided	Conforms
7.	Spray gun designation and marking	Designation, manufacturers name or recognized trade mark & batch or code number should be marked	Not applicable for self propelled electric agricultural tool bar	--
8.	Length of spray boom, m	6 (Min.)	Not applicable for self propelled electric agricultural tool bar	--
9.	Nozzle designation and marking	Designation, manufacturers name or recognized trade mark & batch or code number should be marked	Marked	Conforms
10.	P.T.O. drive shaft -Safety against overload -Guard on shaft	Must be provided Must be provided	Not applicable for self propelled electric agricultural tool bar	--
11.	Guard on belt pulley drive	Must be provided	NA	--
12.	Safety wear	Mask, hand gloves, gum boots and goggles, aprons must be provided	Mask, hand gloves, gum boots, goggle and apron are provided	Conforms
13.	Marking/labeling machine	The labeling plate should be riveted on the body of machine having Name and address of manufacturer & Applicant, Country of origin, Make, Model, Year of manufacturer, Serial number, Engine number, Engine HP, rated rpm & SFC.	Provided	Conforms
14.	Literature	Operator manual, service manual and Parts catalogue should be provided.	Provided	Conforms



27. CONFORMITY TO INDIAN STANDARDS			
i)	IS:11313-2007 (Reaffirmed 2012)-Hydraulic power sprayer-specification	:	Conforms
ii)	Spray nozzle and spray gun as per IS:3652-1995 (Reaffirmed 2011)	:	Conforms
iii)	Hose and hose connection as per IS:10134-1994	:	Conforms

28. COMMENTS AND RECOMMENDATIONS

- 28.1** The chemical composition of blades does not conform in toto, to the requirements of IS: 6690-1981. This needs to be looked into for corrective action.
- 28.2** The hardness of blades does not conform in toto, to the requirements of IS: 6690-1981. This needs to be looked into for corrective action.
- 28.3** The self propelled electric agricultural tool bar is provided with two batteries which is sufficient for only 2.4 to 3 hours.
- 28.4** Agitator is not provided. It may be provided.
- 28.5** During the hydraulic test of pump chamber, the motor stopped beyond 5.9 kg/cm² pressure against the pressure requirement of 7.5 kg/cm² and test could not be conducted. It **MUST** be looked into and improved.
- 28.6 Safety provision/safety wear**
- i) Safety instructions regarding handling poisonous agro-chemical before, during and after spraying operation should be provided on sprayer.



29. 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 sprayers should be updated as per IS:8132-1999.

TESTING AUTHORITY

Er. SANJAY KUMAR AGRICULTURAL ENGINEER	
Dr. MUKESH JAIN DIRECTOR	 03.03.2023

The test report is compiled by Er. Dharmendra Kumar, Technical Assistant and Sh. Abhishek Chourey, MTS (Technical)

30. APPLICANT'S COMMENTS

We will incorporate all the mention suggestions in our future regular production.

