

व्यावसायिकपरीक्षणरिपोर्ट (प्रारंभिक)  
COMMERCIAL TEST REPORT  
(INITIAL)

संख्या/No: Machine-434/1388  
माह/Month: June, 2022  
Validity: 31.05.2027



## SONALIKA SLWBRTP-6R SELF PROPELLED WALK BEHIND RICE TRANSPLANTER



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**

दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

**Southern Region Farm Machinery Training and Testing Institute**

ट्रैक्टर नगर, गार्लदिन्ने ' 515 731, जिला: अनंतपुर (आं. प्र.)

**Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)**

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<b>Machine-434/1388</b>	<b>SONALIKA SLWBRTTP-6R SELF PROPELLED WALK BEHIND RICE TRANSPLANTER</b>	<b>COMMERCIAL</b>
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Manufacturer : **M/S. Sonalika Industries ( A unit of ICML)**  
Applicant : M/S.Sonalika industries ( A unit of ICML)  
Vill Chak Gujran Po Piplanwala Jalandhar  
Road, Hoshiarpur -146022 Punjab(India)

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सत्यमेव जयते

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#### **14. EASE OF OPERATION AND ADJUSTMENT**

No noticeable difficulties were observed in operation and adjustment during the test period.

#### **15. DEFECTS, BREAKDOWNS AND REPAIR**

No defect/breakdown and repair was occurred during entire period of field & lab tests.

#### **16. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATIONS**

16.1.1 The maximum power and rated power were observed as 2.9 under natural ambient condition against the declared value of 3.5 kW.

16.1.2 Specific fuel consumption of engine corresponding to maximum power was recorded as 418 g/kWh.

16.1.3 Max. Torque was observed as 8.86 Nm.

16.1.4 Back up torque of engine was observed as 2.66%.

**16.2** Max. Noise at operator's ear level was observed as 81 dB (A).

**16.3** The amplitude of mechanical vibration on most of the assemblies of the rice transplanter was observed up to the maximum extent of 285 microns, which is on higher side In view of the above, this should be dampened down to improve operational comfort and life of components.

**16.4** The provided labeling plate should be as per the requirement of IS.

**16.5 Engine parameter viz, Max power, rated power, SFC at Max power , SFC at rated rpm , Max torque and Max lubricant & coolant temperature should be declared in the printed literature.**

#### **16.5 Field Test:-**

The transplanter was operated in varying field conditions for a total period of 26 hours for transplanting AST-16 variety of paddy seedlings. The results are summarized as under:-

The average forward speed of operation was observed as 2.45 to 2.53 kmph. The average area covered was recorded as 0.304 to 0.320ha/h.

- ❖ The average depth of transplanting was recorded as 5.9 cm.
- ❖ The spacing between rows was recorded as 30 cm.
- ❖ The av. number of plants per hill was recorded as 2 to 8.
- ❖ The average spacing between hills was recorded as 17 cm.

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- ❖ The average percentage of missing hills was recorded as Nil to 0.83%.
- ❖ The average percentage of floating seedlings was recorded as Nil to 0.83%.
- ❖ The average percentage of buried seedlings was recorded as Nil.
- ❖ The average percentage of damaged seedlings was recorded as Nil.
- ❖ The total percentage of transplanting faults was recorded as 0.83 to 2.49.

#### 16.6 Adequacy of Literature Supplied With Model:-

The applicant supplied the operator's manual, technical manual and parts catalogue in English for reference during the test. It is however, recommended that same may be revised as per IS: 8132-1999 (Reaffirmed 2019) in some other regional/vernacular languages also for the convenience of users & technical personnel.



#### TESTING AUTHORITY:

B. N. DIXIT AGRICULTURAL ENGINEER	
D.C. MOULI AGRICULTURAL ENGINEER	
K.K.NAGLE DIRECTOR	

#### 17. APPLICANTS COMMENTS

Thank you for the valuable suggestion/ comments we will take corrective action as per your comments