

ब्यावसायिक परीक्षण रिपोर्ट  
COMMERCIAL TEST REPORT

संख्या/ No.: IMP-993/2290/2019  
माह/Month : March, 2019

**THIS TEST REPORT VALID UP TO : 31<sup>st</sup> MARCH, 2026**



**KHANDERWAL 16D 90x10 OFFSET DISC HARROW  
TRACTOR DRAWN (TRAILED TYPE)**



भारत सरकार

Government of India

कृषि एवं किसान कल्याण मंत्रालय

Ministry of Agriculture and Farmers Welfare

कृषि, सहकारिता एवं किसान कल्याण विभाग

Department of Agriculture, Cooperation and Farmers Welfare

उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Northern Region Farm Machinery Training and Testing Institute

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[ISO 9001:2015 CERTIFIED]

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**Wear of discs**

Sr. No.	Initial mass (g)	Final mass (g)	Loss of mass (g)	Percentage of wear	
				After 27.62 hr.	Per hour
Plain disc					
1.	9685.6	9640.3	45.2	0.47	0.02
2.	9551.0	9500.7	50.3	0.53	0.02
3.	9401.9	9340.5	61.4	0.65	0.02
4.	9417.4	9370.8	46.6	0.49	0.02
5.	9471.1	9412.4	58.7	0.62	0.02
6.	9608.6	9546.9	61.7	0.64	0.02
7.	9600.3	9549.3	51.0	0.53	0.02
8.	9399.9	9328.7	71.2	0.76	0.03

The hourly percentage wear of discs on mass basis was recorded as 0.02 to 0.03 %.

**5. EASE OF OPERATION & ADJUSTMENTS**

No noticeable difficulty was observed during the operation and adjustment of disc harrow.

**6. DEFECTS, BREAKDOWNS AND REPAIRS**

No noticeable defect observed.

**7. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATION**

- 7.1 The specification of disc harrow does not conform, in full, to the requirement of IS:6635-1972. This should be looked into for corrective action.
- 7.2 The specification for agricultural tillage disc does not conform, in full, to the requirements of IS:4366 (Pt-I)-1985. This should be looked into for corrective action.
- 7.3 The scrapers are welded to the frame and arrangement for adjustment is not made. It should be provided.
- 7.4 **Adequacy of literature**  
Operator's manual included maintenance and parts catalogue was provided by the applicant for reference during testing. However, the operator's manual should be updated as per IS : 8132-1999

**TESTING AUTHORITY**

R. K. NEMA SENIOR AGRICULTURAL ENGINEER	<i>Rn</i>
P. K. PANDEY DIRECTOR	<i>Yan-IM8y</i>

**8. APPLICANT'S COMMENTS**

No specific comment received from applicant.