



व्यावसायिक परीक्षण रिपोर्ट
COMMERCIAL TEST REPORT



संख्या / No.: Imp. 243/318
माह / Month: Octo., 2018

THIS TEST REPORT VALID UPTO 22/10/2025



**GREENSYSTEM RC6007, 07 TINE RIGID TYPE CULTIVATOR
(Tractor Mounted)**



सत्यमेव जयते

भारत सरकार

GOVT OF INDIA

कृषि एवं किसान कल्याण मन्त्रालय

MINISTRY OF AGRICULTURE & FARMERS WELFARE

कृषि, सहकारिता एवं किसान कल्याण विभाग

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1	2	3	4	5	6	7
	C2	9.62	8.59	1.03	10.71	0.42
	C3	7.28	6.59	0.69	9.48	0.37
3	A	148.50	146.50	2	1.35	0.05
	B	69.32	68.58	0.74	1.07	0.04
	C1	9.10	8.67	0.43	4.73	0.18
	C2	9.65	8.78	0.87	9.02	0.35
	C3	7.20	6.73	0.47	6.53	0.25
4	A	149.25	145.35	3.9	2.61	0.10
	B	69.05	68.33	0.72	1.04	0.04
	C1	9.05	8.74	0.31	3.43	0.13
	C2	9.75	8.97	0.78	8.00	0.31
	C3	7.23	6.79	0.44	6.09	0.24
5	A	146.50	143.60	2.9	1.98	0.08
	B	69.37	68.89	0.48	0.69	0.03
	C1	9.13	8.81	0.32	3.50	0.14
	C2	9.65	8.93	0.72	7.46	0.29
	C3	7.16	6.64	0.52	7.26	0.28
6	A	148.30	144.15	4.15	2.80	0.11
	B	69.35	68.93	0.42	0.61	0.02
	C1	9.08	8.74	0.34	3.74	0.15
	C2	9.55	8.97	0.58	6.07	0.24
	C3	7.23	6.79	0.44	6.09	0.24
7	A	146.60	142.95	3.65	2.49	0.10
	B	69.37	68.89	0.48	0.69	0.03
	C1	9.19	8.81	0.38	4.13	0.16
	C2	9.06	8.63	0.43	4.75	0.19
	C3	7.06	6.64	0.42	5.95	0.23

Remarks: The hourly wear percentage of shovel on dimensional basis was recorded as 0.02 to 0.42.

8. EASE OF OPERATION & ADJUSTMENTS

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

9. DEFECTS, BREAKDOWNS AND REPAIRS

No break down was occurred at 25.6 h of field test.

10. SUMMARY OF OBSERVATIONS, COMMENTS AND RECOMMENDATIONS

- 10.1 The dimension of tine does not conform to IS: 7565 (PART I) – 1975. This should be looked into for corrective action for standardization.
- 10.2 The dimension of hitch point of the implement does not conform to IS: 4468-1997 (Part-1). This should be looked into for corrective action for standardization.
- 10.3 The chemical contents of carbon (C) and manganese (Mn) of shovel were not within its range as per IS: 3342-1998. This should be looked into for corrective action for standardization.
- 10.4 **Performance of the cultivator:**
 - 10.4.1 a) The area cover was recorded as 0.575 to 0.721 ha/h at the speed of operation from 5.40 to 6.30 km/h.
 - b) The time required to cover one hectare area was recorded as 1.38 to 1.74h.

**10.4.2 Quality of work:**

- a) The depth of cut was recorded as 6 to 10cm.
- b) Average working width was observed as 124 to 163cm.
- c) Field efficiency was observed as 72.36 to 77.63%.

10.4.3 Power requirement:

The draft of implement was recorded from 177 to 296 kgf and power requirement was calculated as 2.61 to 4.87 kW.

10.4.4 Labour requirement:

One skilled operator was needed to operate the tractor with the implement.

10.5 Wear Assessment:

The hourly rate of wear of shovel on mass and dimensional basis was recorded as 0.16 to 0.31% and 0.02 to 0.42 % respectively.

10.6 As the implement is rigid tine type, it is not suitable for root & stone infested lands.

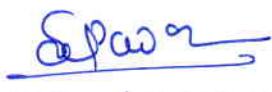

10.7 Labelling plate:

Manufacturer's name and serial no. were indicated on the labeling plate. However, it is recommended to specify make model, address of manufacturer, size, batch or code number, year of manufacture and number of tines as per Indian Standard.

10.8 Technical literature:

Operator cum Service Manual & Parts Catalogue was not provided along with the machine during the course of testing. It is recommended to bring out these manuals in English, Hindi and other vernacular languages as per IS: 8132-1999

TESTING AUTHORITY

S. G. PAWAR AGRICULTURAL ENGINEER	
K.K. NAGLE DIRECTOR	

Test Report compiled by -

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