



SAMYAK BALRAM 14DI POWERTILLER



सत्यमेव जयते

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.)

[An ISO 9001:2015 CERTIFIED INSTITUTE]

Website: <http://srfmtti.dacnet.nic.in/>

E-mail: fmti-sr@nic.in

Tele. : 08551-286441

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Manufacturer : **M/s Samyak Motors Private Limited**
No: 3/34C Athipalayam Road,
Athipalayam, Coimbatore, Tamilnadu-
641110

Applicant : The manufacturer

Indigenous/ Imported : **Indigenous**

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Report No.: PT-165/1510

Month: July

Year: 2023



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18. SUMMARY OF OBSERVATIONS, COMMENTS & RECOMMENDATIONS

Evaluative (mandatory)/ Non-evaluative (non-mandatory) parameters applicable for Qualifying Minimum Performance Criteria as per **Clause – 4.1 (Table-1) of IS 13539: 2018 (Second revision)** for acceptance of the power tiller for the purpose of subsidies / Institutional financing are summarized as under:

Characteristics	Category (Evaluative/ Non-Evaluative)	Requirements as per IS 13539: 2018 (Second revision)	Values declared by the applicant/ requirement	As observed	Whether meets the requirements (Yes/No)
2	3	4	5	6	7
Engine performance:					
a) Maximum power under 2h test, (kW)	Non-Evaluative	To be declared by the manufacturer with a tolerance of ± 10 percent	9.0	9.51	Yes
b) Power at rated engine speed, (kW)	Evaluative	-do-	8.9	9.51	Yes
c) Specific fuel consumption corresponding to max. power, (g/kWh)	Non-Evaluative	To be declared by the manufacturer with a tolerance of +5%	290	216	Yes
d) Specific fuel consumption corresponding to rated power, (g/kWh)	Evaluative	-do-	290	216	Yes
e) Maximum equivalent crankshaft torque (Nm)	Evaluative	To be declared by the manufacturer with a tolerance of ± 10 %	36	39.44	Yes

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18.17.13 The handle grip does not meet the requirement of IS 11858:1
This may be looked into for compliance.

18.18 The discard limits of the engine components need to be specific
the printed manual along with brief specification of the machine

18.19 **Adequacy of literature supplied with the machine:**




The following literature was supplied with the test sample
reference during the test :

**Operator cum service manual and parts catalogue for power
and maintenance manual and parts catalogue of engine in English
in a separate booklets.**

However, it is recommended that the same may be brought out
accordance with IS8132:1999 (Reaffirmed 2004)with inclusion
inter alia, the following: -

- Fuel saving tips.

TESTING AUTHORITY:

 PRAMOD YADAV AGRICULTURAL ENGINEER	 D.C. MOULI AGRICULTURAL ENGINEER
 P.KAMALA BAI SENIOR AGRICULTURAL ENGINEER / DIRECTOR (I/C)	

19.0 APPLICANTS COMMENTS

We will go through with your recommendations for our further
development.