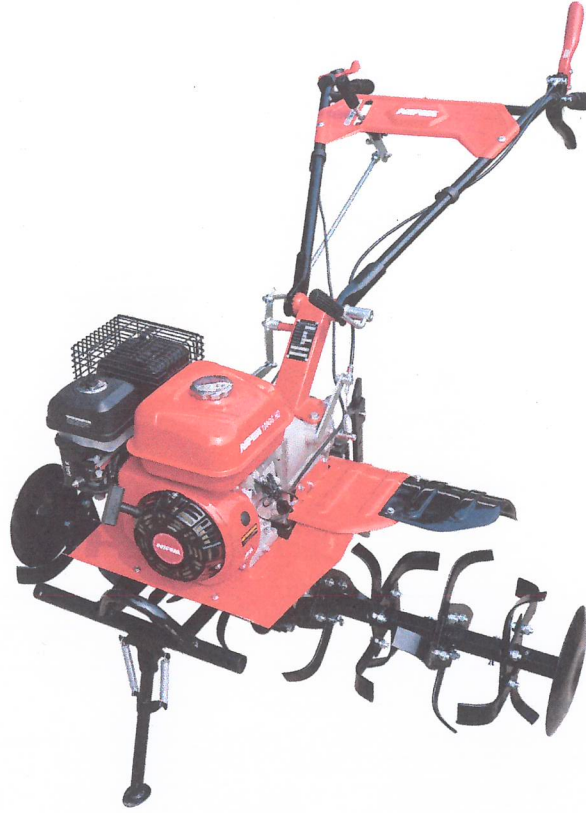


प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट
INITIAL COMMERCIAL TEST REPORT
THIS TEST REPORT VALID UP TO :

संख्या/No. CSIR/CMERI/FMTTC/2024/003
माह/Month: March, 2024
28th FEBRUARY, 2031



**NIPHA POWER WEEDER
(MODEL: NIPHA 100GG HD)**



कृषि मशीनरी प्रशिक्षण और परीक्षण केंद्र
Farm Machinery Training and Testing Centre
सीएसआईआर- केन्द्रीय यांत्रिक अभियांत्रिकी अनुसंधान संस्थान
CSIR - Central Mechanical Engineering Research Institute
महात्मा गांधी एवेन्यू, दुर्गापुर
Mahatma Gandhi Avenue, Durgapur
पश्चिम बंगाल - 713209
West Bengal - 713209
Website: <https://cmeri.res.in>

E-mail: fmttc.cmeri@gmail.com

Telephone: 9434592007 / 7001361295
Fax: +91-343-2546745

CSIR/CMERI/FMTTC/2024/003	NIPHA POWER WEEDER (MODEL - NIPHA 100GG HD) (INITIAL COMMERCIAL TEST)
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Name of Machine : Petrol Engine Operated Power Weeder

Type : Self-propelled, Walk Behind

Make : Nipha India Pvt. Ltd.

Model : NIPHA 100GG HD

Name and address of Manufacturer : Nipha India Pvt. Ltd.
48, Ganga Jamuna, 28/1 Shakespeare Sarani,
Kolkata – 700017

Name and address of Applicant : Nipha India Pvt. Ltd.
48, Ganga Jamuna, 28/1 Shakespeare Sarani,
Kolkata – 700017

Test Conducted at : Farm Machinery Training and Testing Centre
CSIR - Central Mechanical Engineering
Research Institute, M G Avenue, Durgapur,
Pin – 713209, West Bengal.



THIS TEST REPORT IS VALID UP TO: 28TH FEBURARY, 2031
[vide DAC&FW OM No. 13-22/2020- M&T (I&P) dated 12.12.2023]



Report No.: CSIR/CMERI/FMTTC/2024/003	Month: March	Year: 2024
CSIR - Central Mechanical Engineering Research Institute, Durgapur - 713209 (W.B.), INDIA		

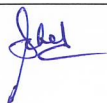
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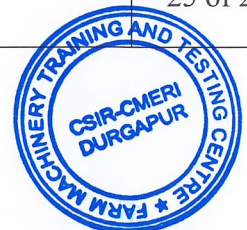
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15 CRITICAL TECHNICAL SPECIFICATIONS

Vide ministry's letter no. 13-9/2019- M&T (I&P)- Part dated 26.04.2019 and F. No. 9-4/2019 M&T (I&P) dated 20.08.2019

Sl. No.	Parameters	Specifications	Observed	Remarks
1.	Type	Self-propelled, walk behind	Self -propelled, walk behind	Conforms
2.	Working width, mm	300-1500	1210	Conforms
3.	Type of engine	Compression/ Spark ignition	Spark ignition	Conforms
4.	Starting method	Manual/ recoil/ self-starting	Recoil	Conforms
5.	Type of clutch	Dry/ Wet	Wet	Conforms
6.	Type of primary gear box	Sliding/constant mesh or combination of both	Sliding mesh	Conforms
7.	Type of secondary gear box	Gear type, chain & sprocket Type	Gear type	Conforms
8.	Material for rotor shaft	SAE 1045 (CRS) / EN8 / EN9	Mild Steel	Does not Confirm
9.	No. of flanges	4 – 10	8	Conforms
10.	Types of flanges	Square/ circular/ rectangular	Rectangular	Conforms
11.	Distance between consecutive flanges, mm	80 to 150	129.2	Conforms
12.	No. of blades in each flange	3 - 6	04	Conforms
13.	No. of rotor blade	12 (min.)	32	Conforms
14.	Thickness of rotor blade (mm)	5 (min.)	5.25	Conforms
15.	Material of blade	Boron (28MnCrB5) / High carbon steel EN 42	Mild Steel	Does not Confirm
16.	Hardness of Blade, HRC	38 (min.)	37	Does not Confirm
17.	Shape of rotor blade	C / J shape	J shape	Conforms
18.	Provision for handle height Adjustment	Must be provided	Provided	Conforms
19.	Provision for handle Rotation	Must be provided	Provided	Conforms
20.	Provision for emergency stop of engine	Must be provided	Provided	Conforms
21.	Provision for easy start of Engine	Must be provided	Provided	Conforms
22.	Provision for shield/cover to prevent flying of mud & stone from rotor	Must be provided	Provided	Conforms





CSIR/CMERI/FMTTC/2024/003	NIPHA POWER WEEDER (MODEL - NIPHA 100GG HD) (INITIAL COMMERCIAL TEST)
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17 TECHNICAL LITERATURE

The following literatures are provided by the applicant during the test along with the application form.

- a) User's or service manual

But the following literatures are not provided by the applicant during the test along with the application form.

- b) Parts' catalogue

These manuals need to be provided as per IS: 8132-1999.

TESTING AUTHORITY

Report Prepared by	Sr. Technical Officer, CSIR-CMERI Farm Machinery Testing Centre	 14/03/2024
Report Verified & Approved by	In-Charge, CSIR-CMERI Farm Machinery Testing Centre	 14/03/2024
Report Approved for release by	Head, Business Development Unit, CSIR-CMERI, Durgapur	 18/3/24

18 APPLICANT'S COMMENTS

Para No.	Our Reference	Applicant's Comments
18	16.1 to 16.7	As soon as possible we will comply with all your recommendations as stated in the DTR

