

प्रारंभिक व्यावसायिक परीक्षण रिपोर्ट  
**INITIAL COMMERCIAL TEST REPORT**

संख्या/No. CSIR/CMERI/FMTTC/2025/002  
माह/Month: January, 2025

THIS TEST REPORT VALID UP TO : 31st December 2031



**APSPEE POWER WEEDER  
MODEL NO.- RT/GE/G7)**



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](mailto:fmttc.cmeri@gmail.com)

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

**Name of Machine** : Power Weeder With 4-Stroke Petrol Engine  
**Type** : Self-propelled, Walk-behind Type  
**Make** : ASPEE  
**Model** : RT/GE/G7  
**Name and address of Manufacturer** : ASPEE Agro Equipment Pvt. Ltd.  
 SURVEY/ BLOCK No. 84, VILLAGE/  
 POST: Balwada, Tal. Chikli, Dist. –  
 Navasari, PIN – 396521, GUJARAT  
 GST NO. 24AAACA8980G1ZN  
**Name and address of Applicant** : ASPEE Agro Equipment Pvt. Ltd.  
 SURVEY/ BLOCK No. 84, VILLAGE/  
 POST: Balwada, Tal. Chikli, Dist. –  
 Navasari, PIN – 396521, GUJARAT  
 GST NO. 24AAACA8980G1ZN  
**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: 31<sup>st</sup> December 2031**  
 [vide DAC&FW OM No. 13-22/2020- M&T (I&P) dated 12.12.2023]



Report No.: CSIR/CMERI/FMTTC/2025/002

Month: January

Year: 2025

**CSIR - Central Mechanical Engineering Research Institute,  
 Durgapur - 713209  
 (W.B.), INDIA**

Report prepared by

Report verified by

Type of Test : Initial Commercial Test  
 Period of Test : August 2024 – December 2024  
 Test Report No. : **CSIR/CMERI/FMTTC/2025/002**  
 Month and Year : January, 2025

- i. The results reported in this report are observed values and no corrections have been applied for atmospheric and site conditions.
- ii. The data given in this report pertains to the particular machine submitted by the applicant for test.
- iii. The results presented in this report do not in any way attribute to durability of the machine.
- iv. The report should not be reproduced in part or full without prior permission of the Director, CSIR- Central Mechanical Engineering Research Institute, M G Avenue, Durgapur -713209 (West Bengal)
- v. This test report is not covered under BIS certification. Therefore, the manufacturers cannot market the machine with ISI mark, only on the strength of this report.
- vi. This report cannot be used for legal purposes.

### **SELECTED CONVERSIONS**

#### **1. Force**

1 kgf = 9.80665 N  
 = 2.20462 lbf

#### **2. Power**

1 HP = 1.01387 Metric HP (Ps)  
 = 745.7 W  
 1 Ps = 735.5 W

#### **3. Pressure**

1 psi = 6.895 kPa  
 1 kgf/sq.cm = 98.067 kPa  
 = 735.56 mm of Hg  
 1 bar = 100 kPa  
 = 10 N/sq.cm.  
 1 mm of Hg = 1.3333 m-bar

#### **4. Area**

1 ha = 10000m<sup>2</sup>  
 = 2.471 Acres

Report prepared by

*[Signature]*

Report verified by

*[Signature]*



#### 4 SPECIFICATIONS

##### 4.1 General

Type of machine	: Self-propelled, Walk-behind Type
Make	: ASPEE
Model	: RT/GE/G7
Serial No.	: 002
Name and address of manufacturer	: ASPEE Agro Equipment Pvt. Ltd. SURVEY/ BLOCK No. 84, VILLAGE/ POST: Balwada, Tal. Chikli, Dist. – Navasari, PIN – 396521, GUJARAT GST NO. 24AAACA8980G1ZN
Year of manufacture	: 2023
Country of origin	: India

##### 4.2 Details of prime mover

Name and address of manufacturer	: ASPEE Agro Equipment Pvt. Ltd. SURVEY/ BLOCK No. 84, VILLAGE/ POST: Balwada, Tal. Chikli, Dist. – Navasari, PIN – 396521, GUJARAT
Type	: Forced Air Cooled, 4 Stroke, Inclined, Single Cylinder, Petrol Engine
Make	: ASPEE
Model	: 170FB
Sr. No.	: K GC-241000536
Country of origin	: India
Year of manufacture	: 2023
Engine speed (Manufacturer's recommended setting), (rpm)	: 3800
High idle speed	: 4000
Low idle speed	: 2200
Rated speed, (rpm)	: 3600
No load engine speed for field operation, (rpm)	: 2200 – 4200
Speed at maximum torque, rpm	: 3300
Max Torque (Nm)	: 12.9
Rated Power (kW)	: 5.31 kW (7.12 hp)
Max Power (kW)	: 5.34 kW (7.16 hp)

Report prepared by

Report verified by  
Subrata Kr Mandal

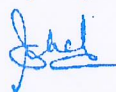
CSIR/CMERI/FMTTC/2025/002	ASPEE POWER WEEDER (MODEL NO.- RT/GE/G7) (INITIAL COMMERCIAL TEST)
---------------------------	--

25.	Provision for cover on Exhaust	Must be provided	Provided	Conforms
26.	Direction of exhaust emission away from Operator	Must be provided	Provided	Conforms
27.	Marking/labeling machine	The labeling plate should be riveted on the body of machine having Name and address of manufacturer & Applicant, Country of origin, Make, Model, Year of manufacturer, Serial number, Engine number, Engine HP, rated rpm & SFC.	Provided	Conforms
28.	Literature	Operator manual, service manual and Parts catalogue should be provided.	Provided	Conforms

## 16 COMMENTS & RECOMMENDATION

- 16.1** The amplitude of mechanical vibration marked as (\*) under section 7, are on higher side. It is not just directly concerned with operator's health, safety and comfort, but also adversely affects the useful life of the components. It needs to be corrected.
- 16.2** The chemical composition of the rotor blade does not fully confirm to the requirements outlined in IS: 6690-1981. This issue should be thoroughly examined and rectified.
- 16.3** The material used for the rotor shaft does not meet the requirements as per the requirement of BIS Standard. This issue requires prompt investigation and correction.
- 16.4** The material used for the rotor blade does not comply as per the requirement of BIS Standard. This issue requires immediate attention and corrective measures.
- 16.5** The user manual and service manual have been provided; however, they require updating to ensure compliance with the latest IS standards.

Report prepared by



Report verified by





**17 TECHNICAL LITERATURE**

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

- a) User's manual book
- b) Parts' catalogue
- c) Service manual

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	<i>[Signature]</i> 07/01/2025
Report Approved by	In-Charge, CSIR-CMERI Farm Machinery Testing Centre	<i>[Signature]</i> 07/1/2025
Report Approved for release by	Head, Business Development Unit, CSIR-CMERI, Durgapur	<i>[Signature]</i> 07/1/25

**18 APPLICANT'S COMMENTS**

Para No.	Our Reference	Applicant's Comments
18	16.1	We appreciably noted the same, we will do needful to reduce mechanical vibration
	16.2	We noted the same, we will take necessary corrective action.
	16.3	We also noted this, we will take necessary and prompt corrective action.
	16.4	We also noted the same, we will take necessary and prompt corrective action.
	16.5	Noted the same, we will further update the same is per latest IS standards.

