



AMTEC
Agricultural Machinery Testing and Evaluation Center
1977

ACR 028:2023 CHECKLIST AND REMINDERS FOR THE AMTEC TEST CONDITIONS AND REQUIREMENTS FOR RICE PRECISION SEEDER

■ Application for AMTEC Test

The test applicant shall submit AMTEC-OP-F01 (Agricultural Machinery Test Application Form) together with the following requirements:

- AMTEC-OP-F16 (Waiver for Machine Specifications)
- AMTEC-OP-F18 (Data Privacy Consent Form)

■ Technical Specifications of the Machine

The test applicant shall submit any document/s indicating the specifications of the machine upon application for testing. In case the said document/s are not available, the applicant shall fill out the Machine Specifications Sheet provided by AMTEC upon request.

- Operator's manual with complete specifications as stated in Annex B of PAES 172:2015
- Brochure
- Machine specifications sheet (shall be filled out upon request and receipt of copy from AMTEC in case the manual or brochure is not available)

■ Preparation and Operation of the Machine

The rice precision seeder shall be ready for testing. The officially designated operator of the test applicant shall operate, demonstrate, adjust, and repair. He/She shall decide on matters related to the operation of the machine.

■ Running-in of the Machine

A test run shall be conducted prior the official test as to check its condition and make necessary adjustments to the machine.

■ Test Plot

The test applicant shall prepare at least three (3) test plots. Each test plot shall be:

- Operated in either dryland or wetland condition;
- Rectangular with sides in the ratio of 2:1 as much as possible; and
- At least 1000 m² for mechanically-operated seeder.

■ Test Material

The test applicant shall prepare rice seeds which are sufficient for the three (3) test plots.

■ Other Test Necessities

The following shall also be adequately supplied during the conduct of testing:

- Fuel sufficient for the entire duration of test trials; and
- Sacks/plastics for laboratory testing purposes

■ Machine Setting

The rice precision seeder shall be tested at the manufacturer's recommended setting for the following:

- Travelling speed, kph: _____
- Seed delivery rate, kg/ha: _____

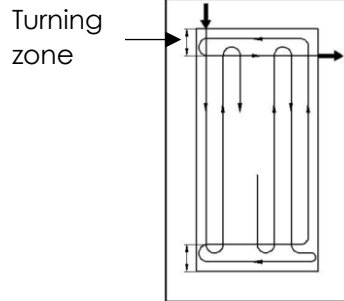


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■ Recommended Planting Pattern

Before the operation, a turning zone shall be established. It shall be about one cycle of departure and return. Seedlings shall be transplanted next to the straight side of the border along the longest side of the field.



■ Performance and/or Fabrication Test Requirements

AMTEC shall conduct various tests and verification on different performance parameters of the machine including the following requirements as per PNS/PAES 171:2015:

■ Fabrication Requirements

Criteria	Requirement as per PNS/PAES 171:2015
General Requirements	<input type="checkbox"/> It shall be generally made of steel and/or engineering plastic. <input type="checkbox"/> Hill spacing should be adjustable. <input type="checkbox"/> Multi-row seeder shall have fixed row spacing.
Seed Plate	<input type="checkbox"/> It shall be replaceable.
Hopper	<input type="checkbox"/> It shall be designed to contain seed with minimum frequency of refilling during operation.

■ Performance Requirements

Criteria	Requirement as per PNS/PAES 171:2015
Field Efficiency, %, minimum	60
Seeding rate, kg/ha, minimum	15
Seeding efficiency, %, minimum	85
Noise level, dB(A), maximum	92 (for 6-hour operation)
Uniformity of Seed Placement	It shall be uniform
Good Quality of Work	In terms of accuracy and uniformity of seed, ease of operation and maintenance, even spacing, and minimum seed damage

■ Suspension and Termination of Test

If the test material and test plot do not conform with the recommended quantity and characteristics, AMTEC shall not proceed with the test. Should the test applicant request the conduct of the test despite the non-conformity to the test requirements identified by AMTEC, the applicant shall sign the AMTEC Waiver for Nonconformity to Test Requirements.

- AMTEC-OP-F24 (Waiver for Nonconformity to Test Requirements)

On the other hand, if the machine stops due to breakdown or malfunction during the test run affecting the machine's performance, the test may be suspended. If the machine cannot continue the operation, the test shall be consequently terminated.



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■ Other Assistance During Test

1. For field and laboratory testing outside the AMTEC premises, the applicant shall shoulder the transportation expenses (i.e. fuel, toll fees, vehicle rental, plane fare, sea fare, etc.) of the AMTEC Staff assigned for the testing activity.
2. The applicant may assist the AMTEC Staff in looking and/or making arrangements for hotel accommodation near the test site.
3. The applicant shall provide drinking water to the AMTEC Staff during the testing activity.
4. The applicant shall provide any form of shed or sunshade (e.g. tent, umbrella, etc.) for the test equipment, samples (if applicable) and AMTEC Staff during the testing activity in the field.
5. The applicant is requested to assist the AMTEC Staff in finding any means to access a safe and convenient restroom near the test site during the testing activity.

■ Testing Fee

1. The testing fee for rice precision seeder is PHP 16,000.
2. To proceed through AMTEC test, the test applicant shall settle at least 50 % of the testing fee which is non-refundable but transferrable.
3. In cases of additional testing during the field, the test applicant shall immediately submit the required documents and settle at least 50% of the testing fee within 5 working days after the testing proper.
 Additional testing, number of machines: _____
4. Payment/s shall be directed to the following:
 Through UPLB Cashier's Office (8AM to 12PM): AMTEC Trust Fund Code No. 8271632-40A2040101000
 Through Landbank (8:30AM to 3PM): UPLB Trust Fund Account No. 1892100507 or UPLB FI Account No. 1892-1003-29

■ Other Reminders

1. All manufacturers, fabricators, assemblers, and importers (MFAI) shall secure a Certificate of Conformity (CC) from the Bureau of Agricultural and Fisheries Engineering (BAFE) which guarantees that their agricultural and fisheries machinery conforms with PNS/BAFS PABES or other relevant standards identified by BAFE. More information about the application for CC can be found at <http://bafe.da.gov.ph/index.php/certificate-of-conformity-of-manufacturers-fabricators-assemblers-distributors-dealers-importers-and-exporters/>.
2. All MFAI shall employ an Agricultural and Biosystems Engineer (ABE), as mandated by RA 10915 (ABE Law), who shall facilitate all activities and concerns pertinent to AMTEC testing and BAFE requirements. Do you currently have an ABE in your roster of employees? Yes No