



AMTEC
Agricultural Machinery Testing and Evaluation Center
1977

ACR 041:2023 CHECKLIST AND REMINDERS FOR THE AMTEC TEST CONDITIONS AND REQUIREMENTS FOR PADDY SEED CLEANER

■ 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 Specification)
- AMTEC-OP-F18 (Data Privacy Consent Form)

■ Technical Specifications of the Machine

The test applicant shall submit any document/s indicating the specifications and other relevant information of the machine upon application for testing.

- Operator's manual with complete specifications as indicated in Annex B of PNS/PAES 261:2015
- 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 paddy seed cleaner shall be ready for performance test. The officially designated representative/skilled operator of the test applicant shall operate, demonstrate, adjust, repair, and decide on matters related to the operation of the machine. The operator shall be skilled in operating a paddy seed cleaner.

■ Running-in of the Machine

A test run shall be conducted prior to the official test to check its condition and make necessary adjustments to the machine. No other adjustments shall be permitted while the official test is on-going.

■ Test Site

The test site shall:

- Be in a stable and level solid ground with sufficient working space
- Be in a position that the wind will not blow the test material and other impurities into the clean seeds
- Have ample provisions for handling of materials and temporary storage
- Have adequate ventilation and lighting

■ Test Material

The test applicant shall prepare paddy seeds which are sufficient for the three (3) test trials with a minimum duration of fifteen minutes per trial. The test material to be used:

- Shall be of a single variety
- Maximum purity shall not exceed 95%
- Moisture content should be 14% wet basis

■ Other Test Necessities

The following shall also be adequately supplied during the conduct of the field performance test:

- Fuel sufficient for the entire duration of test trials (for engine-driven machine);
- Engine oil (for engine-driven machine);
- Uninterrupted power supply (for electric motor-driven machine);
- Extension plugs (if needed for electric motor-driven machine); and
- Extra weighing scales

■ Machine Operation

- The paddy seed cleaner shall be operated at the manufacturer's recommended setting of its components.
- The same feeding rate recommended by the manufacturer shall be maintained during the test run.
- After the test-run, the testing area shall be cleaned and then prepared for the next test trial(s).
- A minimum of three (3) test trials, with duration of at least 15 minutes per trial, shall be adopted.



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■ Performance Requirements

AMTEC shall conduct various tests and verification on the different performance parameters of the machine including the following requirements as per PNS/PAES 260:2015.

Criteria	Requirement as per PNS/PAES 260:2015
Input Capacity, kg/h	Shall meet the specifications of the manufacturer
Cleaning Recovery, %, minimum	99
Purity of Output, %, minimum	98
Cleaning Loss, %, maximum	1
Noise Level, dB(A), maximum	92*

*Allowable noise level for six (6) hours of continuous exposure based on Occupational Safety Health Standards, Department of Labor and Employment, Philippines, 2013.

■ Manufacturing Requirements

Frames	<input type="checkbox"/> Shall be made from angle bars and mild steel
Fans	<input type="checkbox"/> Shall conform to PNS/PAES 240:2010 – Agricultural Machinery – Fans and Blowers – Specifications
Bolts and Screws	<input type="checkbox"/> Shall conform to the requirements of PNS/PAES 311:2001 – Engineering Materials – Bolts and Nuts for Agricultural Machines – Specifications and Applications and PNS/PAES 313:2001 – Engineering Materials – Screw for Agricultural Machines – Specifications and Applications
Parts	<input type="checkbox"/> Sizes of the parts of the paddy seed cleaner shall be based on the specifications of the manufacturer
Others	<input type="checkbox"/> There shall be provisions for lubrication of non-sealed type bearings and belt tightening. <input type="checkbox"/> Provisions for safety of the operator from all moving components of the paddy seed cleaner such as belt guard or cover shall be included.

■ Safety, Workmanship and Finish

General	<input type="checkbox"/> Shall be free from manufacturing defects that may be detrimental to its operation <input type="checkbox"/> Any uncoated metallic surfaces shall be free from rust and shall be painted properly <input type="checkbox"/> Shall be free from sharp edges and surfaces that may injure the operator. <input type="checkbox"/> Warning notices shall be in accordance with PNS/PAES 101:2000 – Agricultural Machinery – Technical Means for Ensuring Safety – General
Screen	<input type="checkbox"/> Should be replaceable to fit varying sizes of seeds
Rotating parts	<input type="checkbox"/> Should be dynamically balanced
Mechanism for immediate disengagement of power transmission	<input type="checkbox"/> Shall be provided

■ Suspension and Termination of Test

If the test material does 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)

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 tests 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 is requested to assist the AMTEC Staff in looking and/or making arrangements for hotel accommodation and food 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 paddy seed cleaner is PhP 9,000.
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