



AMTEC
Agricultural Machinery Testing and Evaluation Center
1977

**ACR 040:2023 CHECKLIST AND REMINDERS FOR THE AMTEC TEST CONDITIONS AND REQUIREMENTS FOR
FEED PELLET MILL**

■ 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 and other relevant information of the machine upon application for testing.

- Operator's manual with complete specifications as indicated in Annex B of PNS/BAFS PABES 274:2019
- 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 feed pellet mill shall be ready for field performance test. The officially designated representative and/or operator of the test applicant shall inspect the feed pellet mill to ensure that it has been assembled in accordance with the manufacturer's instructions. The aquaculture feeder will be tested by the official testing agency in accordance with the manufacturer's specifications. The operator shall be skilled in operating a feed pellet mill.

■ 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 in accordance with the manufacturer's recommendation.

■ Test Material

The test applicant shall prepare the feed pellet ingredients which are sufficient for the three (3) test trials with each test trial lasting for at least fifteen (15) minutes. The feed formula shall be provided by the test applicant and the ingredients shall be common or locally available. The samples should be prepared in such a way that the test sample to be used for the running in and in each test trial has identical formulation characteristics, particle size, as well as moisture content. Failure to meet the requirements of the test materials, the test engineer shall not continue with the test.

■ Other Test Necessities

The following shall also be adequately supplied during the conduct of testing for feed pellet mill with engine:

- Fuel sufficient for the entire duration of test trials; and
- Engine oil.

■ Machine Setting

The feed pellet mill shall be tested at the manufacturer's recommended setting.

■ 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/BAFS/PABES 274:2019:



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■ Fabrication Requirements	
Criteria	Requirement as per PNS/BAFS/PABES 274:2019
Hopper Material for Manufacturing	Corrosion-resistant and smooth material
Auxiliary Devices to Reduce Sticking or Bridging	Shall be provided on the hopper
Pelletizing Components Material for Manufacturing	Corrosion and wear-resistant materials
Die and Roller Method of Manufacturing	Should be heat treated
General Materials for Manufacturing	Steel bars (angle bars and flat bars), metal sheet or plate, mild steel, stainless steel, and other steel materials
Bolts and Nuts, Screws, Bearings, Bushing and Seals	Shall conform to PAES or other international standards
■ Performance Requirements	
Criteria	Requirement as per PNS/BAFS/PABES 274:2019
Pelleting Capacity, kg/h, Minimum	Shall meet the manufacturer's specification
Pelleting Efficiency, %, Minimum	92
Pelleting Recovery, %, Minimum	95
Pelleting Diameter's Coefficient of Variation, %, Maximum	7
■ Safety, Workmanship, and Finish	
Criteria	Requirement as per PNS/BAFS/PABES 274:2019
Feed Pellet Mill	Shall be free from any manufacturing defects that may be detrimental to its operation
Base or Frame Assembly	Shall be rigid and durable without any noticeable cracks and weak joints
Rotating Components	Shall be statically and dynamically balanced
Pelleting Mechanism	Shall be adjustable and replaceable when needed
Clearance Adjustment Between Die and Rollers	Shall be provided
Metal Surfaces	Shall be free from rust
Mechanism for Emergency Stop	Shall be provided
Moving Parts, Sharp Edges, and Rough Surfaces	Shall be provided with safety features
Access to Parts for Repair, Maintenance, and Operation	Shall be provided
Mechanism for Belt Tightening and Adjustments	Shall be provided



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■ Suspension and Termination of Test

If the test materials 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.

■ 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 feed pellet mill 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