



SPECIFICATION

Supply, delivery and installation of a laboratory seed thresher and dust extraction system

1. Scope

- 1.1. This specification describes the requirements for a laboratory seed thresher and dust extraction system for the seed thresher (the "System") for seed threshing and cleaning of the field grown experiments.
- 1.2. The System shall be supplied and delivered at the Plant Breeding and Genetics Laboratory of the IAEA, under the physical address of International Atomic Energy Agency Laboratories at Seibersdorf, Friedensstrasse 1, 2444, Seibersdorf, Austria (the "Site").

2. Definitions, Acronyms, and Abbreviations

The following definitions, acronyms, and abbreviations shall apply throughout this Specification unless defined otherwise hereinafter:

V	Volt
Hz	Hertz

3. Requirements

3.1. Functional and Performance Requirements

The System shall meet the following functional and performance requirements:

Laboratory seed thresher:

- 3.1.1. The System shall be suitable for the use with individual plants, bundles and small plots.
- 3.1.2. The System shall be suitable for seed threshing and cleaning in cereals, vegetables, legumes, without breakage, loss of seeds or mixing.
- 3.1.3. The System shall be equipped with a controlled security system and simple adjustment for different crops.
- 3.1.4. The System shall be with separate grain and chaff reception.
- 3.1.5. The System shall be movable with wheels and foot fixing-break.

Dust extractor from the seed thresher:

- 3.1.6. Complete dust extraction system for laboratory seed thresher.
- 3.1.7. The dust extractor shall be compatible with the seed thresher via a connection adaptor.
- 3.1.8. The System shall be noise proof.
- 3.1.9. The System shall be equipped with efficient filtering and cleaning technology.

3.2. Technical Requirements

The System shall meet the following technical requirements:

The two components (seed thresher and dust extractor) shall be compatible to each other and operate as a whole.

Laboratory seed thresher:

3.2.1. Power supply 230 V-^A50/60 Hz.

3.2.2. Concaves sizes between 8-20mm to suit different cereals and legumes.

Dust extractor from the seed thresher:

3.2.3. With small footprint and low installation height.

4. Marking

The System shall have all safety markings in English language.

5. Packing

The System, for the shipment to the Site, shall be packed in accordance with international standards that are applicable for the shipment of this kind of equipment.

6. Quality Requirements

6.1. The System shall be manufactured, shipped and installed in accordance with the Contractor's ISO quality assurance system or an equivalent quality assurance system.

6.2. The Contractor shall document the compliance with this quality assurance system.

7. Testing and Acceptance

The System, prior to shipment, shall be tested for conformance of the System with manufacturer's performance specifications and the minimum requirements specified herein.

The System, after installation, shall be tested by the Contractor together with the IAEA to demonstrate that the performance meets the manufacturer's performance specifications and the minimum requirements specified herein as determined by the IAEA.

The results of the testing of the System shall be documented by the Contractor in an acceptance protocol that shall be signed by the IAEA.

8. Installation



The Contractor shall install the System on Site.

The Contractor shall provide an operational walkthrough of the System on Site immediately after the installation of the System. The installation time of the seed thresher and the dust extractor may be dependent of the time of the separate purchase of the components.

9. Deliverable Data Items

The Contractor shall provide two complete sets of operation and servicing manuals in the English language.
