- Seed preparation
- Seed treatment
- Preparation for sowing
- Land preparation
- Morphological characterization
- Seeds extraction and packing
- Seed preparation

Prepare:

- List of selected germplasm
- 30 seeds of each accession to be sowed (select 10-20 normal seedlings to transplant)
- Labels for each accession used on the seed flats
- Seed preparation
- Seed treatment
- Preparation for sowing
- Land preparation
- Morphological characterization
- Seeds extraction and packing
- Seed treatment

To prevent spread and build-up of seed-borne viruses

Step 1:
Seeds packed with a cloth sack or gauze bags and labeled to identify each other.
- Seed treatment (cont)

Step 2:
Soak seeds in 10% solution of trisodium phosphate ($\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$) for 2 hours.
Regeneration and Characterization of Capsicum

- Seed treatment (cont)

Step 3:
Rinse the seeds in running water for 45 minutes, stirring continuously.

Step 4:
Air-dry the seeds in room temperature.
- Seed preparation
- Seed treatment
- Preparation for sowing
- Land preparation
- Morphological characterization
- Seeds extraction and packing
Regeneration and Characterization of *Capsicum*

- Preparation for sowing

Preparing the medium (mixed peat moss and vermiculite with 3 to 1) for the seedling nursery.
Regeneration and Characterization of Capsicum

- Preparation for sowing (cont)

Filling seed flats with medium.
Preparation for sowing (cont)

Sowing seeds
Regeneration and Characterization of Capsicum

- Preparation for sowing (cont)

Seedlings in the nursery
- Seed preparation
- Seed treatment
- Preparation for sowing
- Land preparation
- Morphological characterization
- Seeds extraction and packing
Regeneration and Characterization of Capsicum

- Land preparation
  Construction of field net cages

  A. Digging holes in the prepared field.

  B. Setting up skeleton of net cages.
Regeneration and Characterization of *Capsicum*

- Land preparation (cont)

Covering the ridges with black plastic mulches.
**Regeneration and Characterization of *Capsicum***

- **Land preparation (cont)**

  Sewing nylon nets to fit the cages.
Regeneration and Characterization of *Capsicum*

- Land preparation (cont)

Fixing the gates on the skeleton of cages.
- Land preparation (cont)

A. Covering with nylon net.

B. Fixing nylon net with soil.
Regeneration and Characterization of *Capsicum*

- Land preparation (cont)

Complete construction of field net cages.
Regeneration and Characterization of *Capsicum*

- **Land preparation (cont)**

  Make holes on the mulch to prepare for transplanting of seedlings.
Regeneration and Characterization of *Capsicum*

- **Land preparation (cont)**

  Transporting seedlings from seedling nursery to field.
Regeneration and Characterization of *Capsicum*

- Land preparation (cont)
  Transplanting
Regeneration and Characterization of Capsicum

- Land preparation (cont)
  Watering of transplanted seedlings.
Regeneration and Characterization of *Capsicum*

- **Land preparation (cont)**

  ![Staking](image)
Regeneration and Characterization of *Capsicum*

- **Land preparation (cont)**
  
  Spraying pesticide to control diseases and pest regularly.
Regeneration and Characterization of *Capsicum*

- Land preparation (cont)

Harvesting pepper fruits by priming. Putting fruits in nylon net bags. (for fruit characterization and seed extraction)
- Seed preparation
- Seed treatment
- Preparation for sowing
- Land preparation
- Morphological characterization
- Seeds extraction and packing
- **Morphological characterization**

Characterization in the field using standard descriptors. Contents included:

a. seedling data; b. vegetative data; c. inflorescence data; d. fruit data; e. seed data.
Regeneration and Characterization of *Capsicum*

- **Morphological characterization (cont)**

Preparing flower specimen for characterization and filing.
Regeneration and Characterization of *Capsicum*

- Morphological characterization (cont)

Harvesting materials for photo documentation.
- Seed preparation
- Seed treatment
- Preparation for sowing
- Land preparation
- Morphological characterization
- Seeds extraction and packing
Regeneration and Characterization of *Capsicum*

- Seeds extraction and packing
  
  Pure pepper seeds were extracted.
- Seeds extraction and packing (cont)

Dry the seeds to 4-7% moisture content in the drying room.
- **Seeds Collection (cont)**

Weight and pack the seeds with the aluminum foil bags labeled.
- Seeds extraction and packing (cont)

Store the seeds in the cold storages for medium and long-term.

Medium-term (for active collection): stored for 20-50 years under 5 ºC, 45% RH.

Long-term (for base collection): stored for 50-100 years under -15 ºC.

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