# **BRINJAL**

# Solanum melongena L.

#### Variety:

Long: Pusa Purple Cluster, Borbengena and BWR-34. Pusa Kranti, Pusa Purple Long

Round: Pusa Purple Round, Pusa Bhairav, BWR-12

**Oblong**: BB-7, Pant Samrat

## **Description:**

**Pusa Kranti**: Dwarf and spreading growth habit, leaf long, narrow and highly lobbed, green coloured, non-spiny, fruit are 15-20 cm long, attractive dark purple in colour, less seeded, yield about 270 q/ha.

**Pusa Purple Long**: Plant semi-erect and dwarf, in habit; fruit glossy, light purple in colour, 25-30 cm long, smooth and tender; av. yield 275 (q/ha), maturity 100-110 days.

**Pusa Purple Cluster**: Plant tall erect, compact, sturdy with purple pigmentation on stem; leaf purple, non-spiny; fruits born in clusters of 4-8, 10-12 cm long, deep purple colour, av. yield 175 q/ha, maturity 75 days, relatively resistant to bacterial wilt and little leaf disease.

**Pusa Purple Round**: Plant very tall with thick stem of greenish purple colour, leaf highly lobbed with deep green colour; av. weight 137 g with only 6 fruits per plant, resistant to shoot borer and little leaf disease.

**Pusa Bhairav**: Resistant to phomopsis blight.

**BB**–7: Fruit oblong, borne in cluster, purple, yield about 200 q/ha, tolerant to bacterial wilt.

**BWR-34**: Fruit elongated, borne in cluster, purple; yield about 100q/ha, tolerant to bacterial wilt.

**Pant Samrat**: Resistant to fruit and shoot borer and bacterial wilt. (Recommended for bacterial wilt endemic areas)

### Soil:

Well drained rich sandy loam for early and silt loam to clay loam for late crop. pH 5.5 - 7.0 is ideal.

#### Seed bed preparation and seedling raising:

Refer "Procedure for nursery raising of transplanted vegetable crops".

# **Field Preparation:**

The land should be prepared to a fine tilth and FYM to be applied. Clothianidin

50WDG 80 g ai/ha should be incorporated. It is advisable to apply lime every three years @ 20 q/ha depending upon soil test result. Liming should be done at least 30 days before planting.

Seed rate: 200 g/ha (30 g/bigha)

### Time of sowing:

First week of September to October for winter crop and January to February for spring crop.

### **Spacing:**

75 cm x 60 cm (Row to Row and Plant to Plant)

#### Manure and fertilizer:

FYM @ 10 t, N 50 kg,  $P_2O_5$  50 kg and  $K_2O$  50 kg/ha (1.3 t FYM, 14.7 kg Urea, 42.0 kg SSP, 11.3 kg MOP). Half of N and full doses of FYM,  $P_2O_5$  and  $K_2O$  should be applied as basal and the remaining half of N to be top dressed in one or two instalments.

#### **Interculture:**

1. Irrigation: Same as in tomato

2. Weeding: Same as tomato

### **Brinjal-Okra Cropping Sequence**:

FYM 10 t/ha and NPK @ 10:30:15 kg/ha is recommended for  $1^{st}$  crop of brinjal followed by  $2^{nd}$  crop of okra without FYM and with recommended dose of NPK.

# Plant protection:

#### 1. Fruit and shoot borer:

- a) Apply Emmamectin benzoate 5 SG @220 g/ha. Flubendiamide 39.35 EC @ 0.1%.Chlorantraniliprole 18.5 SC @ 40 gai/ha.
- **b)** Apply Lamda-cyhalothrin 5EC@ 20 g ai/ha.
- c) Growing of garlic as intercrop or boarder crop reduces the infestation

#### 2. Biointensive IPM against shoot and fruit borer

- Azadirachtin 1500 ppm @ 2 ml/liter of water
- Lecanicillium lecanii @ 1x 10<sup>8</sup> spores/ml (5 g/lit of water)
- Eight releases of *Trichogramma chilonis* (MITS) @1,00,000 Nos./ha (13500 Nos./bigha) at weekly interval starting from initiation of flowering
- 3. **Bacterial wilt**: Soil drenching with 100 ppm of Streptomycin should be done.
- 4. **Fungal wilt**: Soil drenching with Carboxin @ 0.2% should be done
- 5. White blight (white mould): Spray Azoxystrobin 23SC @ 0.5 g/lit. of water

Yield: 200 q/ha