

FRENCH BEAN

Phaseolus vulgaris L.

Variety: Pusa Parvati, Contender, UPF-203, UPF-191 and Premier

Description:

Contender: Bush variety, ready for picking in 50 days, pod round, green, very long, curved at the tip, thick, meaty and stringless; very prolific bearer; suitable for most areas except very hot and dry localities; yield 160q green pods/ha.

Pusa Parvati: Bush variety; pod attractive, light green in colour, round and meaty; early variety, pods available 5 days earlier than contender; yield 170 q green pod/ha.

Soil: Well drained sandy loam with pH 5.5-6.0

Field preparation: Land should be prepared to fine tilth

Seed rate: 40 kg/ha (5.3 kg/bigha)

Time of sowing: October-March

Seed treatment: Seeds should be treated with Carboxin @ 3 g/kg seeds

Spacing: 45 cm x 30 cm

Manure and fertilizer:

FYM @ 20 t, N 30 kg, P₂O₅ 40 kg and K₂O 20 kg/ha (2.6 t FYM, 8.8 kg Urea, 33.6 kg SSP, 4.5 kg MOP and 1.1 kg Borax/bigha). Half of N and full doses of FYM, P₂O₅ and K₂O should be applied as basal and the remaining half of N to be top dressed at flowering.

Interculture:

1. **Irrigation:** Irrigation should be given regularly. There should not be moisture stress especially in the early phases of crop growth, during blooming and pod development.
2. **Weeding:** First weeding at 20 days after emergence and subsequent weeding as per necessity

Plant protection:

- 1) **Aphid, Jassid and Beetles:** Spray Flubendiamide 39.35EC 0.1%
- 2) **Anthraxnose, Root rot and Wilt:** Treat the seeds with Carboxin @ 2-3 g/kg before sowing, Spray Azoxystrobin 23SC @ 0.1% on the crop.
- 3) **Leaf spot:** Spray the crop with Chlorothalonil 75WP 0.2% (2 g/ltr) twice at 15 days intervals starting at one month after sowing.
- 4) **Bacterial Blight:** Treat the seeds with Streptomycin sulphate @ 2.5 g/kg
- 5) **Mosaic:** Prophylactic measure should be taken against aphid vector by spraying lambda cyhalothrin 5 EC @ 150- 250 ml/ha.

Harvesting:

The pods become ready for harvest in 2-3 weeks after first bloom. Pods should be harvested while they are young and tender.

Yield: 80-120 q of green pod/ha

Seed storage:

Seeds should be treated with 3 g/kg seed black pepper powder to protect the seeds from storage pests such as *Callosobruchus* spp. Before treatment the seeds are to be dried to 10-12% moisture content level by sun drying for 10-12 days.