



PIONEERING POLYHOUSE VEGETABLE BREEDING IN INDIA



Pant Polyhouse Tomato-2

Indian population is increasing and simultaneously the demand of vegetable is also on the increase. They are potent source against malnutrition. It estimated that total requirement of vegetable will rise to 20 million tonne by 2050. To meet the demand, there is a high prerequisite of growing vegetable under protected condition as it implies 3-5 fold increase in their production. But very little effort has been made to exploit vast potential of vegetable production. Therefore, it is important to promote protected cultivation by breeding suitable varieties of hybrids or vegetable for protected cultivation.



Pant Polyhouse Hybrid Tomato-1

Keeping in view the above facts, the concept of polyhouse vegetable breeding programme was started by Dr. D.K. Singh, Professor & Head, Vegetable Science & Senior Vegetable



Pant Parthenocarpic Cucumber-2

Breeder during 2002 in cucumber and tomato at GBPUA&T, Pantnagar. The genes i.e. *Pc* and *F* in cucumber and *sp*, *hp* and *og* gene in tomato were exploited. **The varieties i.e. Pant Polyhouse Hybrid Tomato-1 & Pant Polyhouse Tomato-2 and Pant Parthenocarpic Cucumber-2 & Pant Parthenocarpic Cucumber-3 were released by Uttarakhand State Variety Release Committee during May 2011, for commercial cultivation at farmers' polyhouse.**



Pant Parthenocarpic Cucumber-3

These varieties have been recommended by All India Coordinated Research Project on Vegetable crops workshop held at ICAR-Indian Institute of Vegetable Research, Varanasi on 07th-09th September, 2021 for the cultivation in India under polyhouse /greenhouse.

Pant Parthenocarpic Cucumber-2 and Pant Parthenocarpic Cucumber-3 having yield potential 1755 q/ha and 1605 q/ha respectively. Pant Polyhouse Hybrid Tomato-1 and Pant Polyhouse Tomato-2 with yield of 1900q/ha and 1500 q/ha respectively.



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