

**HortHorizon :****SWARNA SURAKSHA: A NEW HIGH YIELDING FABA BEAN VARIETY****Anil Kumar Singh\****ICAR-Research Complex for Eastern Region, ICAR Patna, PO- Bihar Vet. College, Patna-800 014 (Bihar)**\*E mail : anil.icarpat@gmail.com*

**ABSTRACT** : Bihar State Varietal Release Committee (SVRC) recommended for release of first ever faba bean variety 'Swarna Suraksha' for its cultivation in across the state covering all agro-climatic zones. ICAR Research Complex for Eastern Region, Patna developed this faba bean variety. The newly developed variety 'Swarna Suraksha' is nutritionally superior over existing cultivar (s) and national check. It contains very less amount of anti-nutritional factor like tannin and phytate a major hurdle in the cultivation of such an excellent crop.

Faba bean (*Vicia faba* L.), commonly called as 'Bakla' in Hindi heartland is an important annual legume crop for rainfed as well as irrigated ecology. (Singh and Bhatt, 1). Its green pods are used as vegetable and dry seeds are used as split *dal* and the preparation of *besan*. Faba bean, like other beans, is a good source of calories, protein, carbohydrates and fibre, and also rich in phosphorus, iron, potassium and vitamin B complex (Singh *et al.*, 2; Sundaram *et al.*, 3). Lack of suitable varietal technology is one of the major bottlenecks to adopt this crop. Keeping in view, the above fact, ICAR Research Complex for Eastern Region, Patna become first ever institute to develop first faba bean variety in the Bihar. The work on faba bean was started in the 2006.

**Swarna Suraksha : Boon for rainfed cultivation**

Since considerable area in Bihar is still under rainfed farming. Hence keeping in view the importance of rainfed farming "Swarna Surakhsha" faba bean is developed mainly for the rainfed farming situation. The varietal evaluation trial was conducted across the state during 2011-12 to 2013-14. Under Bihar agro-climatic condition it's realised its potential and overall average productivity was recorded 2.5 to 3.1 t/ha and recorded 40 % advantage over the test check variety 'Vikrant'. The developed variety is also rich in sweetness (10.9% TSS) and minerals like iron, manganese and zinc as compared to 'Vikrant'. This variety is a medium duration cultivar and matures in 115-120 days. Swarna Surakhsha is semi bushy type with 70-90 cm plant height. The first picking of green pod can be done after 90-95 days after sowing. Length of pod is 4.0-4.5 cm. and 1000 seed weight is 270-280g. This variety is moderately resistant to major insect-pests and diseases.



Fig. 1 : Field View of Bumber Crop of 'Swarna Suraksha' Fababean

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