

New paddy and faba bean varieties developed by ICAR RCER, Patna

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The State Variety Release Committee, under the Chairmanship of Sri Vijay Prakash, Agriculture Production Commissioner, Govt. of Bihar has notified a new paddy variety ("Swarna Shreya"), two new faba bean varieties ("Swarna Surakhsha" & "Swarna Gaurav") developed by ICAR Research Complex for Eastern Region, Patna on 14th May, 2015 for cultivation in Bihar state.

Paddy variety "Swarna Shreya" is suitable for rainfed low land and direct seeded aerobic condition with maturity period of 120-125 days. It has capacity to withstand draught and also tolerance to many disease and insects. Average productivity of this variety is 4.5 to 5.0 t/ha



Faba bean variety "Swarna Surakhsha" has been developed mainly for the rainfed situation under Bihar agro-climatic condition. Overall the average productivity has been recorded 2.5 to 3.1 t/ha which is 40 % more over the test check variety *i.e.* Vikrant. The developed variety is also rich in minerals like iron, manganese and zinc as compared to check variety "Vikrant". It has low content of anti-nutritional factors like tannin and *phytate*. This variety is of medium duration, matures in 115-120 days, whereas the check variety takes 130-135 days. This variety is moderately resistant to major insect pest and diseases.



Another faba bean variety "Swarna Gaurav" has been developed for the assured irrigation and intercropping situation. Under Bihar agro-climatic conditions, overall average productivity has been recorded 4.0 to 4.6 t/ha and 2.0 to 2.6 t/ha under sole and intercropping system, respectively. It recorded 36 % advantage over the test check variety *i.e.* Vikrant. The developed variety is also rich in minerals like iron, manganese and zinc as compare to check variety vikrant. The major breakthrough is the staggering low content of anti-nutritional factors like tannin and *phytate*. This variety is a medium duration, matures in 120-125 days, whereas the check variety takes 130-140 days. This variety is also moderately resistant to major insect pest and diseases.



(Source: ICAR Research Complex for Eastern Region, Patna)