

SUMMARY AND PROGRESS OF FIRST CALL PROJECTS

Project Title: Improvement in fruit set of brinjal and chillies (041/059/060)

Project Co-ordinator: Dr. Maho Dutta Sharma
Address: Institute of Agriculture and Animal Science, Rampur, Chitwan
Duration: 3 years [Nov 2003 to Oct, 2006]
Budget: NRs. 2,116,000
Location: Nepalgunj, Banke
Purpose: Increase in productivity and post harvest quality of brinjal and chilli
Output:

1. Causes of poor fruit set and low productivity of the crops brinjal and chilli in the terai of the mid and far western development regions of Nepal identified.
2. Market availability, formulation, sales and uses of plant growth regulators studied and integrated package of practices including applications of PGR, for the improvement of fruit set and productivity in brinjal and chili developed.
3. Effect of pre- and post-harvest applications of PGR on fruit quality and post-harvest behavior of brinjal and chili assessed and their post-harvest shelf life improved.
4. New technologies developed, disseminated and published.

S. N.	Activities	Progress
1.1	Survey the problems associated with poor fruit sets and low yield in brinjal and chilli in mid and far western development region of Nepal	Survey work completed. Report prepared.
1.2	Performance of 5-10 most promising cultivars of brinjal during autumn-summer as well as late summer - autumn periods.	Rainy winter season 2005/2006 experiments have been completed. Superior cultivars of brinjal have been identified for this season. The activity completed with effective outputs.
1.3	Performance of 5-10 most commercial cultivars of chilli during early autumn-summer as well as late summer autumn periods.	Twelve chilli cultivars have been evaluated during rainy- winter season of 2005/2006. Suitable cultivars have been identified.

2.1	Survey for the different types available and marketed PGR with their commercial formulation, active ingredient, general pattern of sale and use	Survey work completed. Report prepared.
2.2	Effects of major nutrient levels and micronutrients spray on plant growth, fruit set and yield of brinjal	Rainy-winter season 2005 experiment have been completed. Optimum nutrient level for rainy winter season confirmed. Flamers' selection has been done for verification.
2.3	Effects of major nutrient levels and micronutrients spray on plant growth, fruit set and yield of chilli	Rainy winter season experiment 2005 has been completed. Optimum nutrient level for rainy-winter season has been confirmed. Flamers' selection has been done for verification.
2.4	Effect of various plant growth regulators on growth, fruit set and yield in the two commercial cultivars of brinjal.	Rainy winter season experiment 2005 competed. Flamers' selection has been done for verification.
2.5	Effect of various plant growth regulators on growth, fruit set and yield in the two commercial cultivars of chilli.	Rainy winter season experiment 2005 competed. Effective growth regulator has been confirmed. Flamers' selection has been done for verification.
2.6	Verification of the effect of selected plant growth regulators on fruit set and yield in most promising cultivars of brinjal under optimum nutrient level	Rainy winter season experiment 2005 competed. This activity needs to be continued for further confirmation.
2.7	Verification of the effect of selected plant growth regulators on fruit set and yield in most promising cultivars of chilli under optimum nutrient level	Rainy winter season experiment 2005 competed. This activity needs to be continued for further confirmation.
3.1	Evaluation of different cultivars for fruit quality and post harvest behavior of brinjal and chilli	Post harvests self-life of the heat resistant chilli and brinjal has been assessed.
3.2	Effects of PGR on Quality and post harvest self-life of brinjal and chilli	Preparatory works have been made.
3.4	Improvement of drying of the red ripe chilli	A study on drying of the red chilli has been conducted in winter season of 2005
4.1	Organizing visit of the selected farmers to the research site.	Organized visit to the trainees of Regional Agriculture Training Centre Khajura to the research Site is continued. Selection of farmers for field visit from the target district has been initiated