Impact of INM on plant growth, fruit yield and yield attributes in Chilli (*Capsicum annum*)

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Received July 3, 2017 and Accepted September 21, 2017

ABSTRACT : A field experiment was conducted to study the effect of INM on quantitative and seed quality parameters in Chilli (*Capsicum annum* L.) with varieties of Azad Mirch-1 and Chanchal was conducted to study the effect of Organic matter, Bio-fertilizers in combination of phytohormones on growth and yield in chilli during Kharif 2010 season at student farm department of vegetable science college of agriculture CSAUA&T Kanpur. Application of @25t FYM/ ha along with RDF (100:50:50kg NPK/ha) recorded higher plant height (70.6, 86.6, 99.0, 99.7 cm in Azad Mirch-1 & 66.8, 72.8, 85.0, 85.9 cm in Chanchal) at 60,90,120 Days and at harvesting. Similar trend was also noticed in days to 50% Flowering with the application of FYM 25t/ha & RDF. The application of FYM 25t/ha along with RDF recorded higher no. of fruit (97 & 53/plant), fruit length (7.20 & 3.22cm.), Fruit diameter (2.70 & 2.99), seed weight (0.376 & 0.153g/fruit) Pericarp weight (.270 & .222g /Fruit) and significantly higher fruit yield (201.99 & 145.32) g/ plant in Azad mirch-1 and Chanchal, respectively over control.

Key Words : Chilli (Capsicum annum), INM, yield attributes, RDF, chilli and biofertilizer.