“PROTECTED CULTIVATION OF CAPSICUM FOR ASSURED LIVELIHOOD”
MAJOR PROJECT WORK AT DIRECTORATE RESEARCH ON WOMEN IN
AGRICULTURE BHUBANESWAR ODISHA

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“PROTECTED CULTIVATION OF CAPSICUM FOR ASSURED LIVELIHOOD ”

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BY

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STUDENT DECLARATION

I hereby declare that the Project report entitled "Protected Cultivation of Capsicum for Assured Livelihood" being submitted by me in partial fulfillment of the requirements for the degree of Master of Business Administration in Agribusiness Management of Orissa University of Agriculture and Technology (OUAT), Bhubaneswar under the guidance of Dr. Naresh Babu, Principal Scientist of Directorate of Research on Women in Agriculture, Bhubaneswar is my original work. I, further declare that the contents of the report are authentic and have not been published or presented earlier.

Date: Chinmoyee Chidashroyee

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This is to certify that the dissertation entitled "PROTECTED CULTIVATION OF CAPSICUM FOR ASURED LIVELIHOOD" submitted in partial fulfillment of the requirement for the degree of Master of Business Administration in Agribusiness Management to Orissa University of Agriculture and Technology (O.U.A.T) Bhubaneswar is a record of project work done by Miss Chinmoyee Chidashroyee during the period of her study in Directorate of Research on Women in Agriculture under the guidance and supervision of Dr.Naresh Babu, Principal Scientist of Directorate of Research on Women in Agriculture, Bhubaneswar. This dissertation has not been previously formed on the basis for award of any Degree, Diploma or other similar titles. The assistance and help received as well as source of information available during the course of investigation have duly been acknowledged.

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Abstract

Adoption of protected cultivation technology can improve yield and productivity of capsicum in off-season. A field experiment was conducted to study the "Protected cultivation of capsicum for assured livelihood" at Directorate of Research on Women in Agriculture, Bhubaneswar during 2013-14. The experiment was laid out in Randomized Block Design with factorial concept comprising three environments namely glass house, poly house and net house and five varieties (Bomby, Orobelle, Indra, Swarna, and Red pepper,) of capsicum. The results indicated a remarkable significant difference on all the vegetative growth and yield parameters. The minimum plant height, number of leaves, number of branches and leaf area are 3.0m, 24.53, 1.75 and 18.43 cm², respectively were found in poly house conditions as compared to minimum in net house condition. Among different varieties of capsicum maximum plant height (3.0m), number of leaves (204.39), number of branches (5.63) and leaf area (449.71 cm²) were recorded in variety Indra against the minimum plant height (30 cm), number of leaves (182.51), number of branches (4.12) and leaf area (12.5 cm²) in variety Orobelle. Among different cultivars the maximum number of fruits per plant (20.44) and highest fruit weight (168.98 g) was obtained in cultivar Swarna. Significantly higher yield (5623 kg/1000square meter) was recorded by Swarna cultivar in polyhouse condition.

Key words: Polyhouse, net house, glass house, varieties, Net returns, capsicum