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ARCH SHAPE GREENHOUSE FOR ORNAMENTAL PLANT

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ABSTRACT : Hi-tech cultivation of horticultural crops inside the greenhouse was took during the month of November to May at instructional farm, CTAE, MPUAT. Udaipur (Raj.). Parameter like inside outside air temperature, relative humidity and solar radiation were selected for study. It was found that considerably higher temperature than outside condition could be obtained by using green house, in winter season. Also the thermal environment inside the greenhouse could modify to a desire extent, by use of suitable temperature controlling measures. The air temperature inside the green house was 8.5 °C to 15°C more than the open condition in winter season. The relative humidity was 60%-70% during peak hours. The germination and survival percentage for croton and ornamental plant were 100% respectively. The maximum plant height of croton, Acalypha and *Hibiscus rosa-sinensis* were 32cm, 92cm and 69 cm respectively. For horticultural crops, NPW, benefit cost ratio and pay back period for the green house were Rs 5,11, 693, 3.24 and 3.08 years respectively.

Key Words : Horticultural crop, green house, NPW, cost benefit ratio.