Mark Street, Square, S

Evaluation of Efficiency of Organic Compost on Growth of Some Vegetables in Soil less Culture at Roof Top

P. Tiwari, R.N. Deshmukh and R. H. Mahakhode

*Dept of Botany, Science College, Congress Nagar, Nagptir (MS), India punitatives (98) whoo com

Abstracts

threen revolution technologies supported by policies and fuelled by agrochemicals, muchinery and treigntion are known to have enhanced agricultural production and productivity Conventional crop growing practices leads to high degree of crop specialization while organic cultivation leads to diversity of crop. In this paper an attempt has been made to evaluate the effect of cocopeat in various combination of vermicompost and cowdung compast on growth of different types of vegetables. The tallest plants of 66 cm ,92cm, and 43cm height of beingal, tomato and chilli respectively were observed when treated with 1:3 ratio of vermicompost and cowdung i.e. 5 kg and 15 kg respectively. Highest no of fruits calculated per plant were 63, 61, 46 in chilli, Brinjal and tomato respectively in the cocopest medium supplemented with higher cowdung compost.

Reywords: Cocopeat, cow dung, vermicompost, Organic cultivation, Conventional.

Introduction:

Green revolution technologies, supported by policies and fuelled by agreehemicals, machinery and sregation are known to have enhanced agricultural production and productivity (Reddy 2010) modern agricultural farming practices. along with trational use of chamical inputs over the past four decades have resulted to loss of natural habitat balance, soil crosion, decreased ground water tevel sell Sidmization, pollution due to chemical fertilizers and pesticides, genetic erosion, ill effect on environment, reduced food quality and increase in the cost of cultivation, rendering the farmer poorer year by year. (Ram 2003) Vegetable cropgrowers are now looking forward to the alternative techniques and strategies for growing crops. The principle of organic cultivation is attracting crop growers all over the world because of its various advantages over modern agricultural practices. Organic farming supports and strengthens biological processes without use of morganic remedies such as chemicals fertilizers and pesticides. Organic culture is productive and sustainable (Reganold et al., 1993, Letourneau and Goldstein, 2001, Mader et al. 2002) Conventional crop growing practices leads to high degree of crop specialization while organic cultivation leads to diversity of crop in conventional crop cultivation at roof top is strongly influenced by the type of soil, density of soil, its properties along with soil borne barmful microorganisms, water dramage system and soil acration. This consideration led to the outcome that a would be preferable to standardise the soils used for determining soil contents, chemicals and composition (P Mangala et al 2009, Gawlik 2001). In the artificial soil (OECD, 1984, 2004, ISO 2012 a.), sphagnum peat represents soil organic oratter However the cost of sphagnum peat is increasing (Meerow 1994) and also o in mined from endangered spluggium plant ecosystems which are declining repully due to environmental constraints (Barkham 1993, Robert san 1993, and on pieces of a source and due to thus, aphagaton pear become scarce and completely