

Growing of Dendrobium Orchids in Greenhouse

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Abstract

Protected cultivation of high value cut-flowers has become attractive because of more income from unit area. Orchids are attractive flowers with greater diversity and commercial importance. Among different orchids, Dendrobiums can be grown under different climatic conditions even in open ventilated greenhouses in tropics and sub-tropics. For production of quality flowers of Dendrobium, suitable package of practices should be adopted which includes choice of cultivars, providing congenial environment, media preparation, planting and establishment, care of crops and harvest and post-harvest technologies. The chapter focuses on suitable technologies for production of quality flowers of Dendrobium in greenhouses.

Keywords: Dendrobiums, climatic conditions, cultivars, production

1. Introduction

Production of different high value flowers under protected cultivation is flourishing in tropical climate with partial control of abiotic factors (Maitra *et al.* 2020). The orchids are flowers with attractive patterns, variety and types which belong to the family Orchidaceae (Fay, 2018; Wraith and Pickering, 2018). These are grown worldwide, but presence is more prominent in tropical and subtropical regions (Hinsley *et al.* 2018; Ramya *et al.* 2020). India is rich in variety of native orchid species (nearly 1,300 species in 140 genera). Commercially orchids are grown as high value crop and sold as cut-flowers as well as potted plants. During recent times trade of orchids has been increased in the world. There are different genera of orchids grown commercially. Among them Arachnis, Cattleya, Cymbidium, Dendrodium, Mokara, Oncidium, Phelanopsis and Vanda are commercially important. Dendrobiums are such tropical