



## Constraints faced by orange growers in adoption of orange rootstock

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### ABSTRACT

The study aimed at understanding the constraints of orange growers regarding orange rootstock. The study was conducted in Morshi Panchayat Samiti of Amravati district in Vidarbha region of Maharashtra state being more concentration of orange cultivation in this Panchayat Samiti (6220 ha). From this Panchayat, Samit 10 villages were purposively selected on the basis of large area under orange. From these villages, 150 orange growers and 16 nursery growers were selected for this study. The frequency and percentage of each constraint were worked out to measure the constraint encountered by the respondents. Constraints faced by majority of the respondents were non-availability of rootstock in time, non-availability of Rangpur lime rootstock, non-availability of disease free rootstock and high cost of rootstock. Other constraints faced by orange growers were non-availability of rootstock in large quantity and lacunae in government policies, subsidies for the rootstock.

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### INTRODUCTION

Citrus fruits have a prominent place among popular extensively grown tropical and sub-tropical fruits. Orange occupying nearly two third of the world total area. Nagpur Mandarin orange is one of the most important fruit crops of Maharashtra state. The most commonly used rootstock for propagating Mandarin or Santra in India are Jamberi or Jatti Khatti. Jamberi is commonly used as the rootstock in Madhya Pradesh, Maharashtra and Karnataka. Recently, Rangpur lime has shown great promise as rootstock for Mandarin. Jamberi is fast growing rootstock as compared to other rootstocks. On other hand, Rangpur lime is slow growing rootstock but fruit production of Rangpur lime is higher as compared to other rootstock. The present investigation was an attempt to study the constraints faced by orange growers in adoption of orange rootstock.

### METHODOLOGY

This study was conducted in Morshi Panchayat Samiti of Amravati district in Vidarbha region of Maharashtra state being

more concentration of orange cultivation in this Panchayat Samiti (6220 ha).

The purposive selection of Morshi Panchayat Samiti was made on the criteria of larger area under orange in the district. In Amravati district area under orange is 63033 hectares. Out of which 6220 hectares is in Morshi Panchayat Samiti. The list of villages having cultivation of orange was obtained from Office of Panchayat Samiti, Morshi. Out of them 10 villages were purposively selected on the basis of large area under orange. The villages selected were namely Bhaipur, Maywadi, Morshi, Dapori, Pala, Hiwarkhed, Torada, Ghodadeo, Dongaryawali and Belona. From these ten villages, list of orange growers was prepared separately from each village by consulting the Talathi. From these lists, selection of respondents from each village was made by proportionate random sampling. Thus, the sample constituted 150 orange growers. In addition, 16 nursery growers from Morshi Panchayat Samiti were also selected. In total 166 respondents were selected for the study.

Constraints were found during pre-testing structured. A query was made to the

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