



Research Paper

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Interaction effect of bio-fertilizers along with reducing level of chemical fertilizers on physico-chemical characters of sweet orange (*Citrus sinensis* Osback)

■ YOGESH VADAK, M.B. PATIL¹, KAMLESH DIWAN² AND ADITYA KADAM³

Members of the Research Forum

Associated Authors:

¹Sweet Orange Research Station,
Badanapur, JALNA (M.S.) INDIA

²Department of Horticulture, Indira
Gandhi Krishi Vishwavidyalaya,
RAIPUR (C.G.) INDIA

³Department of Horticulture,
Marathwada Krishi Vidyapeeth,
PARBHANI (M.S.) INDIA

Author for correspondence : YOGESH VADAK

College of Agriculture, Loni,
AHMEDNAGAR (M.S.) INDIA
Email : yogeshvadak@gmail.com

ABSTRACT : The present experiment was conducted on six year old sweet orange cv. Nucellar trees of uniform growth at Sweet Orange Research Station, Badanapur, Dist-Jalna (M.S.) during Mrig bahar (May-June) in 2012-13. It confirmed that the alone or in combination of *Azospirillum* and PSB along with chemical fertilizers enhanced the quality and biochemical parameters of sweet oranges. Among the various twelve combinations, overall performance of treatment T₁₀ (N₁B₃) received recommended dose of chemical fertilizers (800:400:400 g NPK) along with biofertilizers (200 g *Azospirillum* +200 g PSB per tree) was superior over other all treatments. This was farther followed by treatment T₉ (75% NPK +200 g *Azospirillum* +200g PSB per tree). It was helpful to enhance the quality and physico-chemical characters of sweet orange.

KEY WORDS : Sweet orange, Bio-fertilizers, Chemical fertilizer

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