THE ASIAN JOURNAL OF HORTICULTURE
Volume **8** | Issue 2 | December, 2013 | 399-402

Research Paper

Article history **:**
Received : 15.02.2013
Revised : 22.08.2013
Accepted : 01.09.2013

Effect of seed soaking and foliar sprays of plant growth regulators on germination, growth and yield of okra [*Abelmoschus esculentus* (L.) Moench] var. Parbhani Kranti

■ **Y.L. BHAGURE** AND **T.B. TAMBE**[1]

Members of the Research Forum

Associated Authors:
[1]Banana Research Station, NANDED (M.S.) INDIA

Author for correspondence :
Y.L. BHAGURE
Department of Horticulture, College of Agricultur, LATUR (M.S.) INDIA
Email : yogesh.bhagure23@gmail.com

ABSTRACT : A study was conducted to find out the effect of seed soaking and foliar sprays of plant growth regulators on germination, growth and yield of okra (*Abelmoschus esculentus* L.) var. Parbhani Kranti.The treatment comprised of the two concentrations *i.e.* seed soaking of GA3 (50 and 100 ppm) and cycocel (100 ppm and 150) and foliar spray of cycocel (250, 500, 750, 1000 ppm) at 30 and 45 days after sowing and control. The experiment was laid out in Randomized Block Design with two replications. Soaking of okra seeds with GA3 @ 100 ppm and foliar sprays cycocel @ 750 and 1000 ppm at 30 and 45 DAS ,respectively was found to be beneficial in early germination (2.75 days),highest germination percentage (99.5), reduction in height of plant (86.65 cm), length of internodes (5.10 cm),and increase number of leaves (43), number of internodes (15.90), number of branches (3.15),leaf area(1249.5cm^2),resulted in to induce early flowering (34 days), increase number of flowers (23.40), fruit set (87.54 %), number of fruits (20.46),and yield per plant (201.30 g/plant) of okra.

KEY WORDS : GA_3, Cycocel, Okra

HOW TO CITE THIS ARTICLE : Bhagure, Y.L. and Tamble, T.B. (2013). Effect of seed soaking and foliar sprays of plant growth regulators on germination, growth and yield of okra [*Abelmoschus esculentus* (L.) Moench] var. Parbhani Kranti. *Asian J. Hort.*, **8**(2) : 399-402.