

Response of PGRs on rooting potential in soft wood stem cutting of CPTs of *Pongamia pinnata* under spring-summer condition

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Pongamia pinnata is a oil producing tree species with multiple uses and considerable potential as a bioenergy crop. In this experiment efficacy of plant growth regulators viz., IBA, NAA and rootax powder with different concentrations were studied on rooting ability, growth and survival of stem cuttings of *Pongamia*. The results revealed that PGR particularly IBA @ 1500 ppm had significantly ($P=0.05$) effect on maximum number of primary roots (30.00), success of rooting percentage (92.50) and more number of new shoots per stem cutting. Similarly this PGR treated cuttings showed higher survival percentage as compared to rest PGRs. In regard to minimum (28 days) taken to first sprouting per cutting was also recorded with IBA @ 1500 ppm followed by NAA @ 1500 ppm. This information would help in large scale production and multiplication of genuine planting material for further improvement in elite genotypes of *Pongamia*.

Key words : *Pongamia*, Cuttings, Rooting, Plant growth regulators, Vegetative propagation

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