International Journal of Forestry and Crop Improvement
Volume 5 | Issue 2 | December, 2014 | 42-47 | Visit us : www.researchjournal.co.in
e ISSN-2230-9411

Research Article

DOI: 10.15740/HAS/IJFCI/5.2/42-47

Microsymbiont enhances survival of teak seedlings and nutrient status of soils under saline soils

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ABSTRACT : Seedlings of teak were planted under different salinity levels *viz.*, normal soil (<4 ECe soil), saline soil (4-8 Ece) and highly saline soil (8-12 ECe) and seedlings were inoculated with *Azetobactor* + vesicular-arbuscular mycorrhizal (VAM) fungi, *Azospirillium* + vesicular-arbuscular mycorrhizal (VAM) fungi and combination of all three. Experiment repeated for two years and data recorded at the end of each experiment on nutrient satus of soil pH, ECe N, P, K, Ca, Mg, Na, micronutrient (Fe, Zn, Mn and Cu) and survival per cent of seedlings. Triple inoculation (*Azetobactor*+*Azospirillium*+VAM) significantly influenced on the nutrient status of soil and survival per cent of teak seedlings as compared to uninoculated seedlings under salt condition. Which was followed by dual inoculation of *Azospirillium* and VAM.

KEY WORDS : Microsymbiont, Salinity levels, Nutrient status of soil, Survival per cent

How to cite this Article : Shedage, Swati and Patil, N.S. (2014). Microsymbiont enhances survival of teak seedlings and nutrient status of soils under saline soils. *Internat. J. Forestry & Crop Improv.,* **5** (2) : 42-47.

Article Chronical : Received : *19.08.2014;* Revised : *23.10.2014;* Accepted : *10.11.2014*

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