

Click www.researchjournal.co.in/online/subdetail.html to purchase.



International Journal of Forestry and Crop Improvement

Volume 5 | Issue 2 | December, 2014 | 48-53 | Visit us : www.researchjournal.co.in



Research Article

DOI: 10.15740/HAS/IJFCI/5.2/48-53

Effect of *Azospirillum* and phospho-solubilizing bacterial isolates on yield and nutrient uptake of rice in salt affected soil

PAWAN KUMAR SRIVASTWA AND KANHAIYAJI VERMA

ABSTRACT : A pot experiment was conducted to investigate the effect of soil microbes (*Azospirillum* and PSB) with different dose of NPK on salt affected soil properties, grain yield, straw yield, nutrient contain (%), uptake etc. the experiment was carried out in Randomized Block Design with 21 treatment and three level of fertilizer (50, 75 and 100% recommended dose of NPK ha⁻¹) with and without microbial isolates in three replication. The result indicate that the addition of microbial isolates to salt affected soil not only increase the yield of rice reduce use of fertilizer, improve the soil physico chemical properties like pH, EC, organic carbon, available N, available P and available K in the post-harvest soil as well enhance the rice quality.

KEY WORDS : *Azospirillum*, Phospho-solubilizing, Bacterial isolates, Nutrient uptake, Salt affected soil

How to cite this Article : Srivastwa, Pawan Kumar and Verma, Kanhiyaji (2014). Effect of *Azospirillum* and phospho-solubilizing bacterial isolates on yield and nutrient uptake of rice in salt affected soil. *Internat. J. Forestry & Crop Improv.*, 5 (2) : 48-53.

Article Chronical : Received : 15.10.2014; Revised : 25.10.2014; Accepted : 12.11.2014

MEMBERS OF RESEARCH FORUM

Address of the Correspondence :

PAWAN KUMAR SRIVASTWA, Department of Botany, J.P. University, CHAPRA (BIHAR) INDIA

Address of the Coopted Authors :

KANHAIYAJI VERMA, Department of Botany, J.P. University, CHAPRA (BIHAR) INDIA