

## عنوان مقاله:

Potential Role of Organic Matters and Phosphate Solubilizing Bacteria (PSB) on the Growth and Productivity of Fenugreek

## محل انتشار:

مجله علوم و فناوری کشاورزی، دوره 15، شماره 3 (سال: 1392)

تعداد صفحات اصل مقاله: 9

## نویسندگان:

R. Rizvi - Section of Plant Pathology and Nematology, Department of Botany, Aligarh Muslim University, Aligarh- ۲۰۲۰۰۲ (UP), India

I. Mahmood - Section of Plant Pathology and Nematology, Department of Botany, Aligarh Muslim University, Aligarh- ۲۰۲۰۰۲ (UP), India

S. Tiyagi - Section of Plant Pathology and Nematology, Department of Botany, Aligarh Muslim University, Aligarh- ۲۰۲۰۰۲ (UP), India

## خلاصه مقاله:

A field experiment was conducted during ۲۰۰۹-۲۰۱۱ at the Aligarh Muslim University Agricultural Research Farm, India, to evaluate the efficacious nature of some oil-seed cakes such as neem cake and castor cake, a botanical *Calotropis procera* and phosphate solubilizing bacteria (PSB) *Pseudomonas fluorescens* singly and in various combinations, on the growth and productivity of *Trigonella* plant. Growth parameters included fresh and dry weight, pollen fertility (%), pods plant<sup>-1</sup>, root-nodule index, nitrate reductase activity, and chlorophyll content. Productivity was calculated in terms of N, P, and K in plant as well as in soil. Although all the parameters were significantly increased in these treatments, single application was comparatively less effective than the combined applications. Among oil-seed cakes, neem cake was found better in promoting plant growth than castor cake, followed by *C. procera* and PSB. Root-nodulation also showed a considerable increase in combined treatments. Maximum growth and productivity were observed in the combined inoculation of neem cake, castor cake, *C. procera* and PSB, as compared to other treatments including inorganic fertilizers and untreated one.

## کلمات کلیدی:

Botanical, Oil-seed cakes, *Pseudomonas fluorescens*, *Trigonella*

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1826879>

