IJPS INTERNATIONAL JOURNAL OF PLANT SCIENCES
Volume 9 | Issue 1 | January, 2014 | 193-195

RESEARCH ARTICLE

Effect of integrated nutrient management on protein content of lentil seeds under rainfed condition

■ CHHAYA DESHMUKH AND ARUNA JAIN

SUMMARY

A field experiment was conducted on clay loam soil at RAK college of Agriculture ,Sehore, MP during *Rabi* season 2009-10 and 2010-11 to evaluate the response of integrated nutrient management on protein content in seeds of lentil (*Lens culinaris* Medik) under rainfed condition.The experiment was conducted in the Randomized Complete Block Design with three replications and 14 treatments; *i.e.*, treatments consisted of (T_1) control, (T_2) NPKS (20:17:20:20 kg/ha), (T_3) 50% NPKS, (T_4) FYM @ 5 t/ha, (T_5) vermicompost @ 2 t/ha, (T_6) NPKS (20:17:20:20 kg/ha) + FYM @ 5t/ha, (T_7) NPKS (20:17:20:20 kg/ha) + vermicompost @ 2 t/ha, (T_8) 50% NPKS +FYM @ 5 t/ha, (T_9) 50% NPKS + vermicompost @ 2 t/ha, (T_{10}) *Rhizobium* culture +PSB, (T_{11}) NPKS (20:17 : 20:20 kg/ha) + *Rhizobium* culture + PSB, (T_{12}) 50% NPKS +*Rhizobium* culture + PSB, (T_{13}) FYM @ 5 t/ha + *Rhizobium* culture + PSB and (T_{14}) vermicompost @ 2 t/ha + *Rhizobium* culture +PSB were tested. Protein content in seeds was observed significantly higher with the application of (T_7) NPKS (20:17:20:20 kg/ha) +vermicompost @ 2 t/ha. Hence, application of treatment (T_7) NPKS (20:17:20:20 kg/ha) +vermicompost @ 2 t/ha resulted in the highest protein content as compared to control and other treatments.

Key Words : Biofertilizers, INM, NPKS, Protein content, Rainfed conditions

How to cite this article : Chhaya Deshmukh and Aruna Jain (2014). Effect of integrated nutrient management on protein content of lentil seeds under rainfed condition. *Internat. J. Plant Sci.*, **9** (1): 193-195.

Article chronicle : Received : 26.09.2013; **Revised :** 10.11.2013; **Accepted :** 19.11.2013

MEMBERS OF THE RESEARCH FORUM

Author to be contacted :
CHHAYA DESHMUKH, Department of Botany, Govt. P.G. College, SHUJALPUR (M.P.) INDIA

Address of the Co-authors:
ARUNA JAIN, Department of Botany, Govt. S.N.G.G. P.G. College, BHOPAL (M.P.) INDIA