

BLUE GREEN ALGAL (BGA) BIO-FERTILIZERS : AN ECOFRIENDLY BIOTECHNOLOGY FOR PADDY

S. P. KHAIRNAR¹ and H. A. THAKUR^{2*}

¹Department of Botany, M.G. Vidya Mandir's, Arts, Commerce and Science College, Manmad, Dist. Nashik (M.S.)

²Department of Botany, Gokhale Education Society's, H.P.T. Arts and R.Y.K. Science College, Nashik (M.S.)

ABSTRACT : Blue Green Algae (BGA) Biofertilizers in recent years are getting more popularity among paddy farmers to be used as they are low cost, situational ecofriendly and show more yield potential than other fertilizers. The water logging situation of paddy fields and crop canopy favours luxuriant growth of BGA and there by increases the soil fertility by adding nitrogen and other growth substances. The information and benefits of such useful agro-technology are not reached towards farming community. It is need of hour to explore these areas. In present investigation impact of BGA biofertilizers on grain yield of wet paddy, was studied by organizing field's trails in open fields of 48 responding tribal paddy farmers of Nashik District of Maharashtra. The field demonstrations on BGA biofertilizers were done for two successive Kharif seasons. For this purpose 24 experimental plots were provided, with BGA biofertilizers plus chemical fertilizers, while for 24 control plots only urea fertilizers was used. Both plots were exposed to uniform environmental conditions. Grain yield of both plots were measured to find out treatment effect. It was observed that in first year of experiments there was no significant yield difference in both plots, but in second year, BGA treated plots showed statistically significant increase in crop yield.

Key words : Blue green algae, Eco freindly, Biofertilizers.