

Weed and nitrogen management through inter-cultivation in direct seeded rice

Suryendra Singh^{1,3}, S. Elamathi² and Gautam Ghosh¹

Received June 20, 2016 and Accepted September 20, 2016

ABSTRACT : Pre-emergence application of pretilachlor plus supplemented with one hand weeding (HW) at 45 days after sowing (DAS) provided excellent weed control and higher grain yield than the two HW at 20 and 45 DAS. Intercropping of *Sesbania rostrata* and dual cropping of *Azolla microphylla* with direct seeded rice (DSR) resulted in reduced density and dry weight of weeds. Regarding nitrogen (N) management 100% RDN with DSR + *Sesbania* intercropping had a positive impact on yield attributes and thereby, produced higher yield.

Key Words: Direct seeded rice, weed and nitrogen management, productivity