

**STUDY ON BIO-EFFICACY OF NEW POST EMERGENCE HERBICIDES FOR
ENERGETICS AND GRAIN YIELD IN TRANSPLANTED RICE
(ORYZA SATIVA L.)**

Ishrat Khwaja, N.K. Choubey and Manish Kumar Singh

Deptt. of Agronomy, Indira Gandhi Krishi Viswavidyalaya, Raipur, (Chhattisgarh)- 492006

Email: manishsingh.singh028@gmail.com

Abstract : The present investigation was carried out during *kharif*, of 2011 at the research-cum-instructional farm, Indira Gandhi Krishi Vishwavidyalaya, Raipur (C.G.). Results revealed that higher plant height, total tillers, dry matter accumulation, yield attributes, grain yield and straw yield, crop growth rate, leaf area index were obtained under two hand weedings (20 and 40 dat) (t_{11}), followed by ae 1887196+ae 095404 @ 45 + 22.5 g ha⁻¹ (t_3) and minimum was obtained under unweeded check (t_{12}). The maximum energy input and output were obtained under two hand weedings (20 and 40 dat) whereas energy use efficiency and energy output-input ratio were noted under ae 1887196+ae 095404 @ 45 + 22.5 g ha⁻¹ (t_3) followed by bispyribac sodium @ 20 g ha⁻¹ (t_{10}). The lowest energy parameters were obtained with unweeded check (t_{12}).

Keywords: Bio-efficacy, post emergence herbicides, energetics

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