## Bio-efficacy of Dinotefuran 20 SG against Brown Plant Hopper, *Nilaparvata lugens* and White Backed Planthopper, *Sogatella furcifera* in Rice

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Abstract—Dinotefuran 20 SG was field evaluated for its bio-efficacy against brown plant hopper (BPH) and white backed plant hopper (WBPH) in rice during Kharif 2015 and Rabi 2015-16 with three dosages viz., 100, 125, 150, 175 and 200 g a.i./ha in Kharif and Rabi. The results revealed that all the dosages of Dinotefuran 20 SG recorded more than 90 per cent reduction in the population of both BPH and WBPH over the untreated control and superior to neonicotinoids like imidacloprid and thiamethoxam 25 g a.i./ha and chitin bio-synthesis inhibitor like buprofezin 25 SC @ 125 g a.i./ha. Whereas more or less equal to Pymetrozine 50 WDG @ 120 & 150g a.i./ha. The highest grain yield of 5562 kg/ha was recorded in Dinotefuran 20 SG @ 40 g a.i./ha treated plots during Kharif 2015 and 5482 kg/ha in Pymetrozine 50 WG @ 150 g a.i./ha treated plots during Rabi 2015-16 and was on par with in Dinotefuran 20 SG @ 40 g a.i./ha (5571 kg/ha).