

## **SELECTION OF HIGH YIELDING TRANSPLANT AUS RICE FROM F<sub>4</sub> GENERATION OF AUS-BORO CROSSING**

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### **Extended Summary**

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Nine F<sub>4</sub> aus populations and 2 check varieties were grown in a Randomized Complete Block Design (RCBD) with three replications at Sher-e-Bangla Agricultural University Farm during Aus season of 2014. Data were recorded on yield and yield related characters in order to compare the 9 F<sub>4</sub> lines with the 2 check varieties to ultimately select the highest yielding and short duration Aus populations for further advancement of generation and yield trial. The genotype G2, the F<sub>4</sub> population obtained through the crossing BR21 with BRRI dhan29, gave the highest yield of 6.08 ton/ha which produce 44 percent higher yield than that of the best check BRRI dhan43 (G11). The population did mature only in 104 days which was similar to the best check. Another F<sub>4</sub> population G7 gave 5.30 ton/ha yield which was 25.59 percent higher yield than the check G11. These two populations can be further advanced with intention to release aus variety in future.

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