

Supplementary data

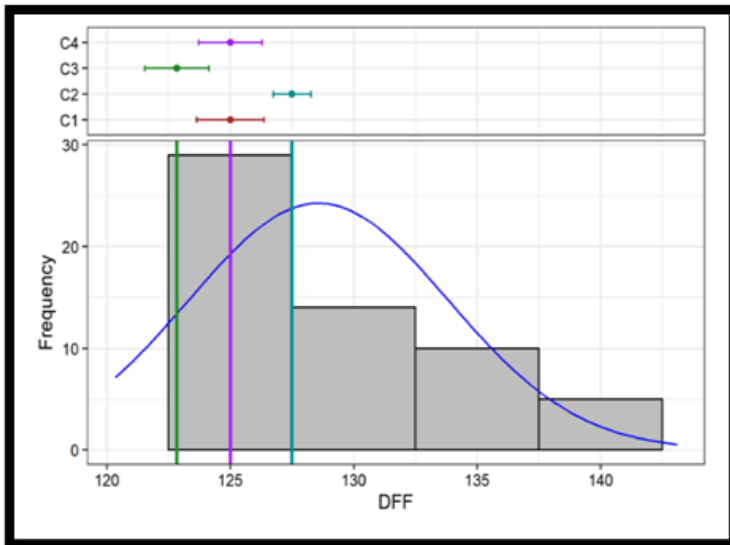
Table S1. Experimental material for grain yield and its component traits for F₄ rice (*Oryza sativa* L.) population

Number of genotypes	Tunga x KPR 1(F ₄)
	60
Experimental design	Augmented
Number of blocks	6
Number of checks	04
Number of genotypes in a block	10
Row length	2 m
Spacing between the rows	0.2 m
Spacing between the plants within row	0.1 m

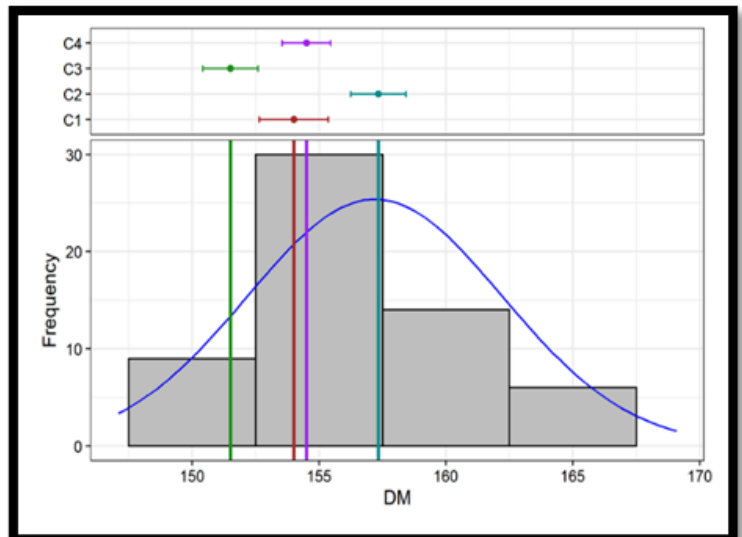
Table S2. Salient features of parents involved in the cross were presented along with checks

Check	Salient features
TUNGA	Semi slender grain type and late maturing Blast tolerant Grain yield: 5000 - 5500 kg/ha Suitable for midlands of Hill Zone of Karnataka
KHP-13	Tall plant stature, medium slender grain type and very late maturing Moderately resistant to blast disease and non-lodging Grain yield: 5000 – 5500 kg/ha Suitable for lowland situations of Hill Zone of Karnataka
KHP-11	Long slender grain type and medium maturing Blast tolerant Grain yield: 4500 - 5000 kg/ha Suitable for midlands of Hill Zone of Karnataka
KPR 1	Long slender type and medium maturing Blast resistant Grain yield: 5500 - 6000 kg/ha Suitable for Ponnampet, Mudigere and Virajpete region of Karnataka

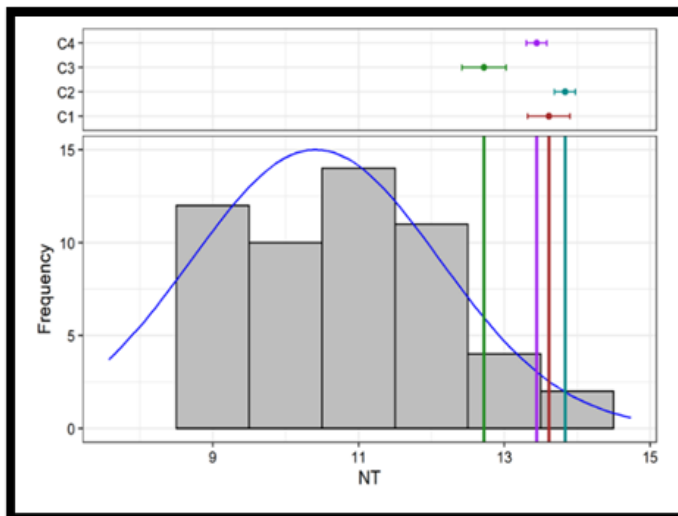
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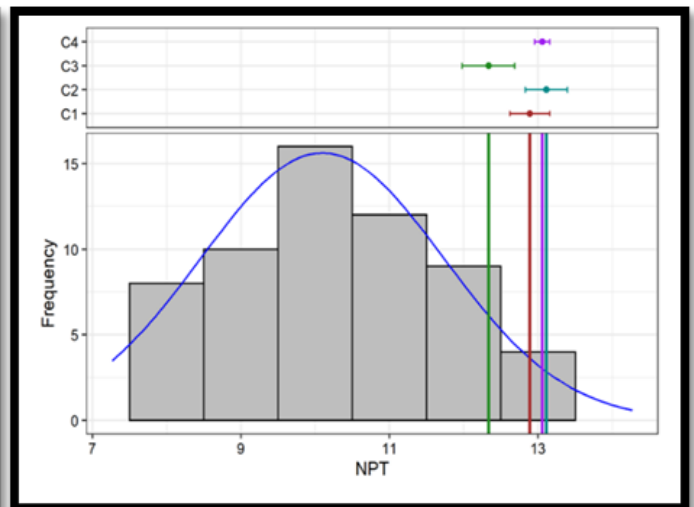
A. Days to 50 % flowering



B. Days to maturity



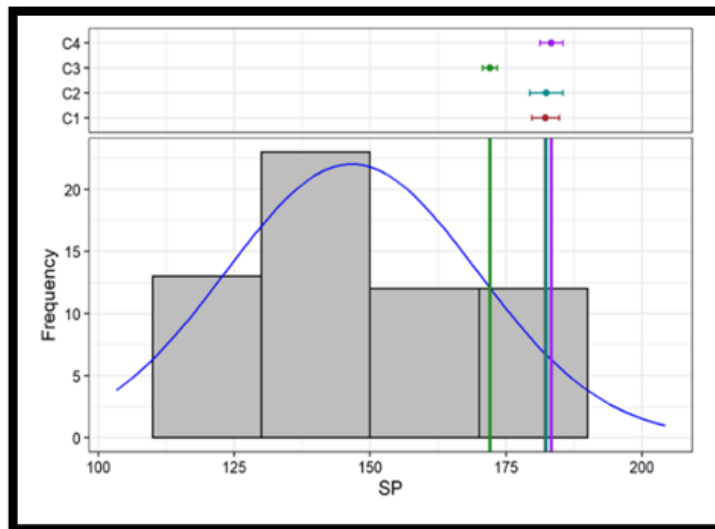
C. Number of tillers per plant



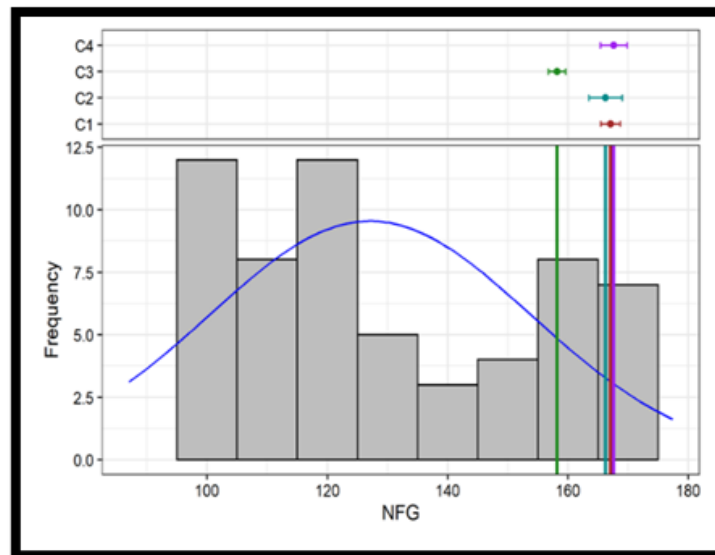
D. Number of productive tillers per plant

Fig. S1. Frequency distribution of F_4 population of cross Tunga x KPR 1: A. Days to 50 % flowering; B. Days to maturity; C. No. of tillers per plant; D. No. of productive tillers per plant.

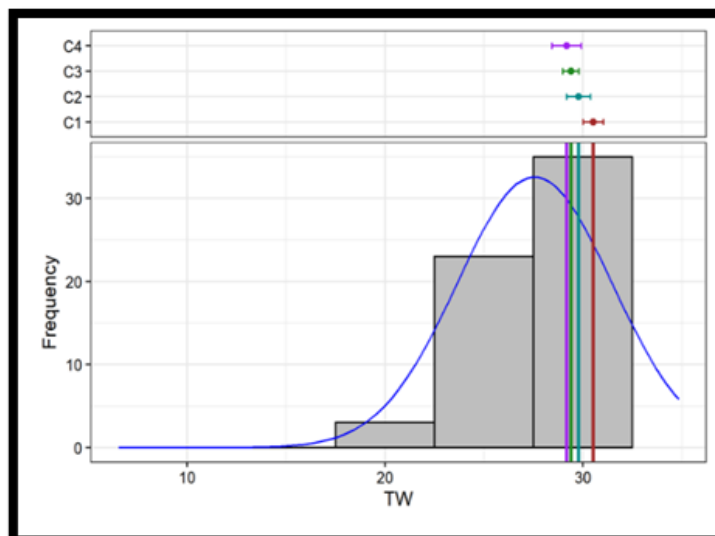
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A. Number of spikelets per panicle

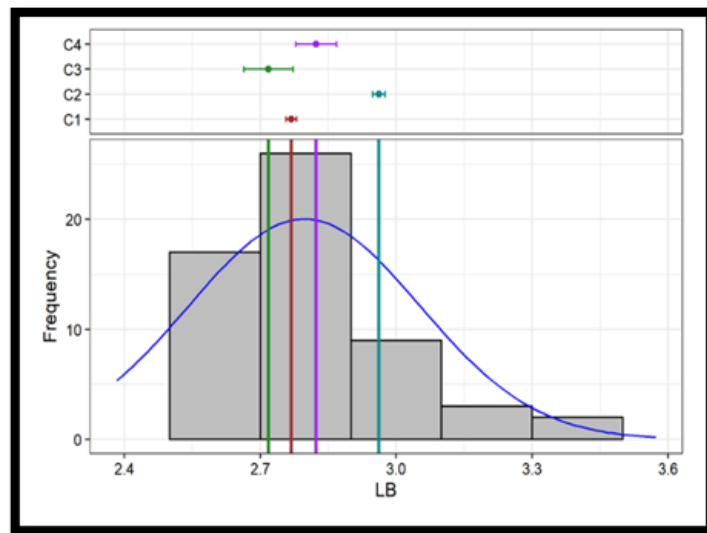


B. Number of filled grains per panicle

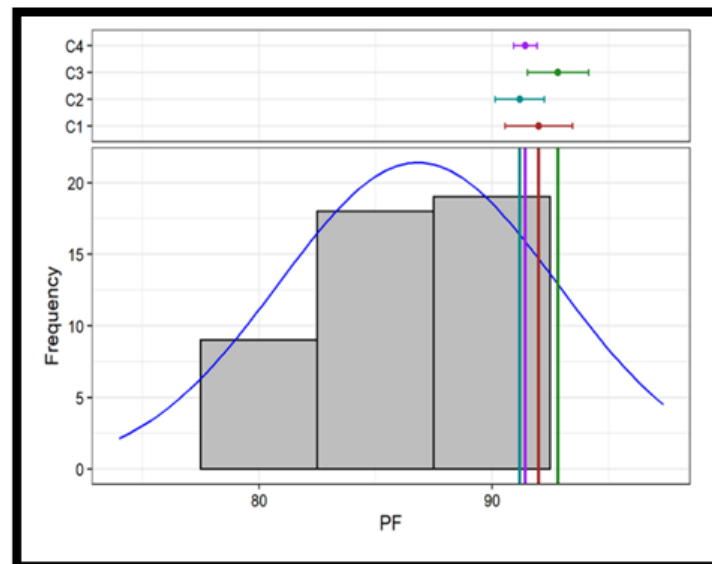


C. Test weight

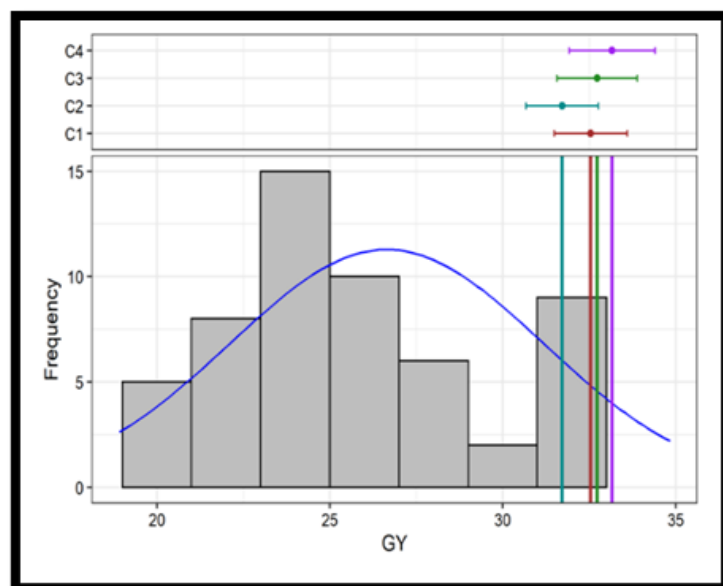
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D. L/B ratio



E. Panicle fertility



F. Grain yield per plant

Fig. S2. Frequency distribution of F_4 population of cross Tunga x KPR 1: A. Number of spikelets per panicle; B. Number of filled grains per panicle; C. Test weight; D. L/B ratio; E. Panicle fertility; F. Grain yield per plant.