

Table S1: BLUP grain yield for genotypes under study: BLUPg- Genotypic effect; Predicted- Predicted mean; LL-Lower limit; UL-Upper limit

Rank	Genotype	BLUPg	Predicted	LL	UL
1	SL 1213	74.0	1771	1611	1931
2	NRC 149	59.0	1756	1596	1916
3	DS 1318	44.6	1742	1581	1902
4	DS 1326	39.0	1736	1576	1896
5	JS 22-07	-14.6	1683	1522	1843
6	HIMSO 1690	-15.7	1681	1521	1842
7	DS 1320	-25.3	1672	1512	1832
8	SL 1234	-33.3	1664	1504	1824
9	JS 22-01	-57.0	1640	1480	1800
10	AUKS 218	-70.6	1627	1466	1787

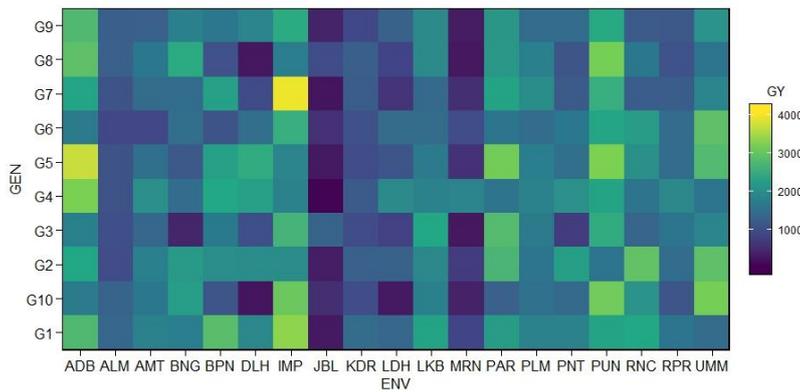


Figure S1. Heat map showing the genotypic variation for the grain yield across nineteen environments GEN, genotype; ENV, environment; GY, grain yield; G1, SL 1213; G2, DS 1318; G3, JS 22-01; G4, NRC 149; G5, DS 1326; G6, SL 1234; G7, HIMSO 1690; G8, JS 22-07; G9, DS 1320; G10, AUKS 218; ADB, Adilabad; ALM, Almora; AMT, Amravati; BNG, Bengaluru; BPN, Bhawanipatna; DLH, Delhi; IMP, Imphal; JBL, Jabalpur; KDR, Kasbe Digranj; LDH, Ludhiana; LKB, Lok Bharti; MRN, Morena; PAR, Parbhani; PLM, Palampur; PNT, Pantnagar; PUN, Pune; RNC, Ranchi; RPR, Raipur; UMM, Umiam

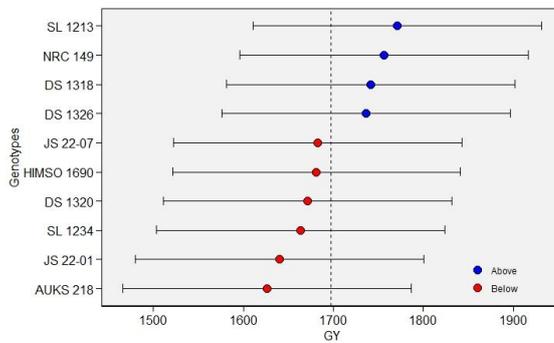


Figure S2: Genotypic BLUP values for grain yield. GY, grain yield