

DRR Dhan 50*

(Samba Mashuri sub-1
with qDTY2.1& 3.1)

Product Profile

DRR Dhan 50, released in 2018 by IIRR, Hyderabad, bears similarities to Samba Mashuri, exhibiting tolerance to dual abiotic stresses such as submergence and drought. Ideally suited for irrigated or transplanted lowland areas as well as drought prone areas, this variety boasts strong culms, erect leaves, and well-exserted panicles. Its medium-slender grains possess excellent cooking quality. Moreover, it demonstrates moderate resistance to BLB and blast.

Priority Market Segment - TLAMS

Planting Method		Ecosystem		
PTR	DSR	Irrigated Lowland	Rainfed Lowland	Upland
Recommended	Not Recommended	Not Recommended	Recommended	Not Recommended

Positioning

Position	Irrigated Lowland	Rainfed Lowland	Upland
Replace	None	Samba Mashuri	None
Companion	None	MTU 1075	None

Key Strengths

- Dual stress tolerance
- Fine grain
- Moderately resistant to BLB and blast
- Non lodging
- Good cooking quality

Considerations

- Susceptible to leaf folder

Relative Variety Performance - Grain Yield, Agronomic Traits and Grain Shape

Variety	Grain yield		Maturity (days)	Plant height (cm)	Lodging	HRR %	1000 grain weight (g)	Grain Shape
	(Kg/ha)	% Adv						
DRR Dhan 50	5500-6000	9	130-135	90-95	Tolerant	60	25	MSF
Samba Mahsuri	5000-5500		130-135	80-90	Tolerant	65	23	MSF

Relative Variety Performance - Biotic and Abiotic Stress

Variety	Leaf blast	Leafblight	Sheath blight	BPH
DRR Dhan 50	Tolerant	Tolerant	Tolerant	Tolerant
Samba Mahsuri	Resistant	Susceptible	Tolerant	Susceptible

Producibility: DRR Dhan 50= 2400 Kgs. / acre

Recommendation: Released for cultivation in Andhra Pradesh, Telangana, Tarnilnadu, Karnataka, Bihar, Odisha, Chhattisgarh, Uttar Pradesh and Madhya Pradesh



*Parental line (s) from IRRI germplasm