

CR Dhan 311

(IET 24772: CR2829-PLN-100)

(ARC10075/Naveen)

Product Profile

CR Dhan 311, released by NRRI, Cuttack for Odisha, stands out as a nutrient-rich rice variety, duly notified by the Government of India. Notable for its high protein content (10.1%) and moderately high level of zinc content (20 ppm) in polished rice, it addresses crucial nutritional needs. With a medium duration of 120-125 days and semi-dwarf plant type reaching 110-115 cm, it features long bold grains and exhibits excellent cooking and eating quality. While the national average grain yield is recorded at 4.3 tons per hectare, in Odisha, it rises impressively to 5.5 tons per hectare.

Priority Market Segment—TMeM-R (Protein Rich Variety)

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

Positioning

Position	Irrigated Lowland	Rainfed Lowland	Upland
Replace	CR Dhan 303	None	None
Companion	CR Dhan 310	None	None

Key Strengths

- Contain 10.1% protein and 20 ppm Zn in polished grain
- Compact and well-exserted panicle
- High test weight

Considerations

- Long bold grain

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

Variety	Grain yield		Maturity (days)	Plant height (cm)	Lodging	1000 g weight (g)	HRR %	Grain Shape
	(Kg/ha)	% Adv						
CR Dhan 311	4300-5500	22	120-125	110-115	Tolerant	26	60	LB
CR Dhan 303	4000-4500		120-125	105-110	Tolerant	24	65	SB

Relative Variety Performance - Biotic and Abiotic Stress

Variety	Neck blast	Brown spot	Sheath rot	Leaf folder
CR Dhan 311	Tolerant	Tolerant	Tolerant	Tolerant
CR Dhan 303	Tolerant	Tolerant	Tolerant	Tolerant

Producibility: CR Dhan 311:= 2200 Kgs. / acre

Recommendation: Odisha

