HEAT TOLERANT

RICE VARIETIES

- DRR Dhan 47 (IET – 23356)
- DRR Dhan 52 (IET – 23354)

DRR Dhan 47

IET 23356 | Heat Tolerant Rice Variety



An early maturing variety suited for both normal and late planting. It is developed from F3 breeding material derived from the cross IR78877-208-B-1-1/IR78878-53-2-2-2 shared by IRRI, Philippines. It exhibits heat tolerance at elevated temperatures of 5-8°C during the reproductive stage





HEAT TOLERANCE
It exhibits heat tolerance at elevated temperatures of **5-8°C during the reproductive stage**

DISEASE AND PEST RESISTANCE

Resistant to blast

KEY PERFORMANCE

Grain Yield
5.5 t/ha

Plant height (cm)
115-120 cm

Duration (days)
110-115 days (seed to seed)

VARIETY INFORMATION

Rice Variety:	DRR Dhan 47 (IET 23356)
Variety Type:	Heat Tolerant Rice Variety
Released for States:	Telangana, Andhra Pradesh, Karnataka, Kerala, Puducherry
Grain Type:	Long Bold
Grain Yield:	5.5 t/ha
Disease and Pest Resistance:	Resistant to blast
Ecology:	Irrigated
Season:	Kharif
Plant height (cm):	115-120 cm
Duration (days):	110-115 days (seed to seed)

IDENTIFICATION & RELEASE DETAILS

Parentage:	IR78877-208-B-1-1/ IR78878-53-2-2-2
IET No:	23356
Year:	2018
Notification No:	S.O. 1379 (E) | 27/03/2018
Protection of Plant Varieties and Farmers' Rights Authority Number:	2022/0036

GRAIN QUALITY & PHYSICAL CHARACTERISTICS

1000 grain weight (g):	24.4 g
L/B ratio:	2.67
Head rice recovery (%):	66%
Alkali spreading value:	4
Amylose content (%):	19.7%
Gel Consistency (mm):	55 mm

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DRR Dhan 52

IET-23354

A high yielding drought and heat tolerant variety with lodging and blast resistance



DROUGHT & HEAT TOLERANT
Reproductive stage heat tolerance with high yield under elevated temperature up to 5-8°C.

DIRECT SEEDING SUITABILITY
Suitable for direct seeding.

LODGING RESISTANCE
Strong and sturdy plant type for better field standing.

BLAST RESISTANCE
Built-in resistance to blast disease.

HIGH YIELD
5.9 t/ha

DESCRIPTION

DRR Dhan 52 (IET-23354) is a drought and heat tolerant variety with lodging and blast resistance suitable for direct seeding. It has reproductive stage heat tolerance with high yield under elevated temperature up to 5-8°C. It recorded significant increase in chlorophyll and carotenoid content during heat stress at vegetative as well as reproductive stages.

KEY HIGHLIGHTS

It has long bold grain possessing good cooking qualities like 66% of Head rice recovery, 6.23 mm Kernel length, 2.34 mm Kernel breadth. A Alkali spreading value, 19.7% Amylose content, 55 mm Gel consistency. Cultivated in areas with irrigated/transplanted and low fertile areas.

a. whole grain,
b. brown/hulled rice
c. polished rice
and d. cooked rice

GRAIN TYPE: LONG BOLD





AGRONOMIC SPECIFICATIONS

Pedigree	IR 78877-208-B-1-1/IR78878-53-2-2-2
Ecology	Irrigated
Grain type	Long Bold
Duration	110-115 Days
Yield	5.9 t/ha
Plant height	110-120 cm
1000-grain weight	23.5 g
L/B ratio	2.67

GRAIN AND COOKING QUALITY

Head rice recovery:	66%
Kernel length:	6.23 mm
Kernel breadth:	2.34 mm
Alkali spreading value:	4
Amylose content:	19.70%
Gel consistency:	55 mm

SALIENT FEATURES

DRR Dhan 52 can replace popular varieties like Sahbhagi Dhan, MTU1010 and IR64.

RECOMMENDED STATES

Haryana, Gujarat, Bihar and Odisha.



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