HIGH YEILDING

RICE VARIETIES

- DRR Dhan 56 (IET – 26803)
- DRR Dhan 75 (IET – 30107)
- DRR Dhan 76 (IET – 29808)
- DRR Dhan 80 (IET – 30757)

DRR Dhan 56

IET-26803

RP 6221-GSR IR1-8-S9-D2-Y2=HHZ 8-SAL9-DT2-Y2



Variety type

A High Yielding Long Slender Green Super Rice (GSR) variety

Description

DRR Dhan 56 is an early duration, highly vigorous, non-lodging, non-shattering, dark green in color and long slender grain variety possessing premium grain and cooking quality developed through the project "Green Super Rice (GSR) for the Resource-Poor of Africa" and Asia" in collaboration with IRRI, Philippines.

GREEN SUPER RICE (GSR)

Resilient. Productive. Profitable.

- Early Duration 110-115 Days
- High Vigorous Growth
- Non-lodging Non-shattering
- Dark Green Colour
- Long Slender Premium Grain

Yield: 5.2 t/ha

AGRONOMIC & IDENTITY INFORMATION

Pedigree	Samba Huang-Hua-Zhan*2 / Phalguna
Ecology	Irrigated
Grain type	Long Slender
Duration	110-115 Days
Yield	5.2 t/ha
Notification No	500 (E) | 29/01/2021
Protection of Plant Varieties and Farmers' Rights Authority Number	2022/0022
Plant height	102 cm
1000 grain weight	22.39 g

GRAIN & MILLING QUALITY

Hulling:	77.5%
Milling:	68.9%
Head rice recovery:	64.1%
Kernel length:	6.38 mm
Kernel width:	2.0 mm
L/B ratio:	3.18
Gel consistency:	22 mm
Alkail spreading value:	5
Amylose content:	23.15%





SALIENT FEATURES

It can replace varieties like Pusa 44, Sona Mahsuri, etc. The new variety can also be cultivated across the states with highlodging and shattering areas.

RECOMMENDED STATES

Punjab and Haryana.

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DRR Dhan 75

IET 30107 | High Yielding Irrigated Fine Variety



A high yielding variety developed through marker assisted introgression of 3 yield genes namely *Gn1a*, *SCM2*, and *OsSPL14* for high grain number, culm strength and panicle branching respectively in the genetic background of Samba Mahsuri.

Grain Appearance



HIGH-YIELD PERFORMANCE

Grain Yield: 6.0 t/ha

Plant height (cm): 102 cm

Duration (days): **130-135 days (seed to seed)**

MARKER-ASSISTED INTROGRESSION

Genes introgressed: ***Gn1a, SCM2, and OsSPL14***

Functions delivered: **high grain number, culm strength and panicle branching respectively**

DISEASE RESISTANCE

Resistant to neck blast, and moderately resistant to leaf blast and sheath blight

Ecology: Irrigated Low Phosphorus conditions

Season: Kharif

Grain Type: Medium Slender

Recommended States: Telangana, Andhra Pradesh, Tamil Nadu, Uttar Pradesh, Odisha, Jharkhand, Bihar, Gujarat and Maharashtra

Parentage: Samba mahsuri*2// Habataki/ST12

Notification No: S.O. 4388 (E) | 08/10/2024

GRAIN QUALITY PARAMETERS

1000 grain weight (g):	L/B ratio:	Head rice recovery (%):	Alkali spreading value:	Amylose content (%):
16.72 g	2.72	61.4%	4	24.2%

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DRR Dhan 76

IET 29808 | High Yielding Irrigated Fine Variety

DRR Dhan 76 is a semi-dwarf, early maturing, high yielding, medium slender variety, which is back cross derivative of MTU 1121 and suitable for irrigated ecology.





PERFORMANCE

- **Grain Yield:** 6.2 t/ha
- **Plant height (cm):** 101-105 cm
- **Duration (days):** 113-120 days (seed to seed)

IRRIGATED ECOLOGY

Ecology: Irrigated Mid–Early

DRR Dhan 76 is a semi-dwarf, early maturing, high yielding, medium slender variety, which is back cross derivative of MTU 1121 and suitable for irrigated ecology.

DISEASE AND PEST RESISTANCE

Moderately resistant to BPH, leaf blast, neck blast, brown spot and sheath rot

GRAIN TYPE & RELEASED STATES

Grain Type: Medium Slender

Released for States: Odisha, West Bengal, Kerala, Pondicherry and Andhra Pradesh.

Rice Variety:	DRR Dhan 76 (IET 29808)	Plant height (cm):	101-105 cm
Variety Type:	High Yielding Irrigated Fine Variety	Duration (days):	113-120 days (seed to seed)
Grain Type:	Medium Slender	1000 grain weight (g):	19.4 g
Grain Yield:	6.2 t/ha	L/B ratio:	2.70
Disease and Pest Resistance:	Moderately resistant to BPH, leaf blast, neck blast, brown spot and sheath rot	Head rice recovery (%):	64.2%
		Alkali spreading value:	4
Parentage:	MTU 1121*2/Swarna	Amylose content (%):	20.14%
Notification No:	S.O. 4388 (E) | 08/10/2024	Gel content (mm):	44.5 mm

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DRR Dhan 80

IET 30757 | High Yielding Irrigated Medium (NIL) Variety

DRR Dhan 80 is a MAS derived medium duration BLB resistant variety in the genetic background of Gangavathi Sona with genes introgressed viz., xa5, xa13 and Xa 21 governing BLB resistance.



Rice Variety:	DRR Dhan 80 (IET 30757)
Variety Type:	High Yielding Irrigated Medium (NIL) Variety
Grain Type:	Medium Slender
Grain Yield:	5.5 t/ha
DISEASE AND PEST RESISTANCE	Moderately resistant to leaf blast, neck blast, sheath rot, WBPH and gall midge.
Percentage:	Gangavati Sona*2/ Improved Samba Mahsuri
Notification No:	S.O. 4388 (E) | 08/10/2024

BLB-RESISTANCE & MARKER-ASSISTED SELECTION

- MAS derived medium duration BLB resistant variety
- genes introgressed viz., xa5, xa13 and Xa 21
- governing BLB resistance

IRRIGATED-MEDIUM PERFORMANCE

- Ecology: Irrigated Medium conditions
- Grain Yield: 5.5 t/ha
- Plant height (cm): 105-110 cm
- Duration (days): 135-140 days (seed to seed)

DISEASE AND PEST RESISTANCE

Moderately resistant to leaf blast, neck blast, sheath rot, WBPH and gall midge.

GRAIN TYPE

Medium Slender

RECOMMENDED STATES

Odisha, Bihar, Chhattisgarh, Madhya Pradesh, Maharashtra, Karnataka and Telangana.

GRAIN QUALITY & PHYSICAL CHARACTERISTICS

1000 grain weight (g): 22.0 g	L/B ratio: 2.82	Head rice recovery (%): 55%	Alkali spreading value: 4.0	Amylose content (%): 22.35%	Gel content (mm): 46 mm

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