IRRIGATED MEDIUM

RICE VARIETIES

- ❖ DRR Dhan 40 (IET – 21542)
- ❖ DRR Dhan 79 (IET – 29859)
- ❖ DRR Dhan 82 (IET – 30756)
- ❖ DRR Dhan 84 (IET – 32051)
- ❖ DRR Dhan 85 (IET – 32054)
- ❖ DRR Dhan 95 (IET – 32047)

DRR Dhan 40

IET 21542 | High-yielding, medium-duration rice variety





PADDY (HUSK)



MILLED RICE

DRR Dhan 40, A semi-dwarf, high yielding, medium-duration variety bred from wild species, O. nivara. It is developed from an advanced back cross population of Swarna/O. nivara followed by pedigree method.

Grain yield: 5.5 t/ha

Plant height (cm): 99 cm

Duration (days): 138 days (seed to seed)

Released for States: Maharashtra,Tamil Nadu and West Bengal.

Grain type: Short bold grains

Disease and Pest Resistance: Moderately resistant to leaf blast, neck blast, rice tungro disease, brown spot and sheath rot.

Parentage: Swarna /O. nivara (IRGC 81848)

IET No: 21542

Year: 2014

Notification No: S.O. 244 (E) 24/01/2014

PPV&FRA No: 2019/216

Ecology: Irrigated

Season: Kharif

1000 grain weight (g):	L/B ratio:	Head rice recovery (%):	Alkali spreading value:	Amylose content (%):
18.0g	2.26	55.8%	4.0	25.68%

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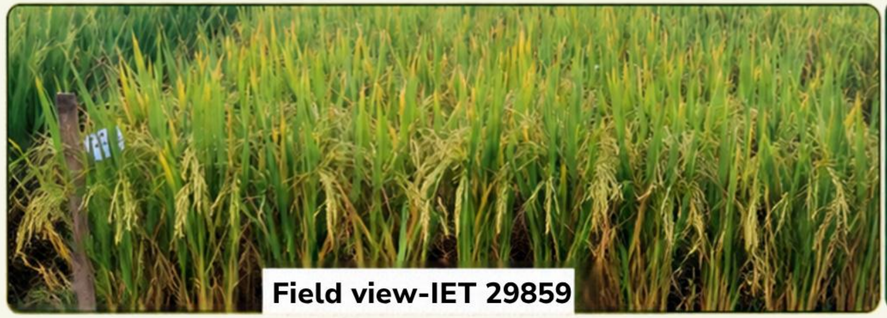
DRR Dhan 79

IET 29859 | Multiple Stress Tolerant High Yielding Irrigated Medium Duration Variety

भाकृअनुप ICAR

DRR Dhan 79 is a multi-parent derived marker assisted forward breeding line in Krishna Hamsa background with genes introgressed: Leaf blast resistance (Pi 54) and BPH resistance (Bph 20 and Bph 21).



Field view-IET 29859



MULTIPLE STRESS TOLERANCE

- Leaf blast resistance (Pi 54)
- BPH resistance (Bph 20 and Bph 21)
- Resistant to leaf blast (Pi54) and neck blast

FIELD-ECOLOGY & PERFORMANCE

- Ecology: Both Rainfed and Irrigated; Medium duration
- Grain Yield: 5.85 t/ha
- Plant height (cm): 100 cm
- Duration (days): 125-130 days (seed to seed)

Disease and Pest Resistance

Resistant to leaf blast (Pi54) and neck blast; moderately resistant to brown spot, BPH (Bph20 and Bph21), leaf folder and drought tolerance.



Rice Variety:	DRR Dhan 79 (IET 29859)
Variety Type:	Multiple Stress Tolerant High Yielding Irrigated Medium Duration Variety
Grain Type:	Long Slender
Grain Yield:	5.85 t/ha
Disease and Pest Resistance:	Resistant to leaf blast (Pi54) and neck blast; moderately resistant to brown spot, BPH (Bph20 and Bph21), leaf folder and drought tolerance.
Parentage :	Krishna Hamsa/ IRBB60//Krishna Hamsa/Tetep///Krishna Hamsa/IR 71033-121-15-B-DSB2
Notification No:	S.O. 4388 (E) | 08/10/2024

Grain Type : Long Slender

Recommended States:

Odisha, Bihar, Chhattisgarh, Madhya Pradesh, Maharashtra, Karnataka and Tamil Nadu

GRAIN QUALITY & PHYSICAL PARAMETERS

1000 grain weight (g)	L/B ratio	Head rice recovery (%)	Alkali spreading value	Amylose content (%)	Gel content (mm)
24.9 g	3.21	55.4%	4.0	24.58%	28 mm

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DRR Dhan 82

IET 30756 | High Yielding Medium Slender Rice Variety

DRR Dhan 82 (Swarna / MTU 1010) is inbuild tolerant with many biotic and abiotic stresses rice variety identified in 2025. It is suitable cultivation in Eastern India. It has acceptable grain and cooking quality.



AT-A-GLANCE

Ecology:	Irrigated Medium conditions
Grain Type:	Medium Slender
Duration:	130–135 days
Yield:	6.0–6.5 t/ha



GRAIN AND COOKING QUALITY

HRR:	AC:	GC:	ASV:
59.95%	22.61%	56 mm	4.0

SALIENT FEATURES

Moderately resistant to BLB, NB, RTD, WBPH, SB and GM.

PEDIGREE

Swarna / MTU 1010

RECOMMENDED STATES

Odisha, West Bengal, Jharkhand, Bihar and Uttar Pradesh (Zone III).

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DRR Dhan 84 (Mahajaya)

IET 32051 | High Yielding Irrigated Medium (NIL) Variety



- BACTERIAL BLIGHT RESISTANCE
- BLAST RESISTANCE
- PLANT-HOPPER RESISTANCE
- HIGH YIELD

DESCRIPTION

DRR Dhan 84, derived from the cross, is a MAS-derived, bacterial blight, blast-resistant, and high-yielding rice variety having the major bacterial blight resistance gene, Xa21, and the genes for blast and yield are Pi54 and Gn1a.
DRR Dhan 84, like its recurrent parent, Jaya, possesses short bold grains, with more than 350–450 grains per panicle, good culm strength, and more panicle branches, along with excellent cooking and eating qualities and higher yield.

TARGET GENES

- Bacterial leaf blight: *Xa21*
- Blast: *Pi54*
- Yield: *Gn1a*

AT-A-GLANCE

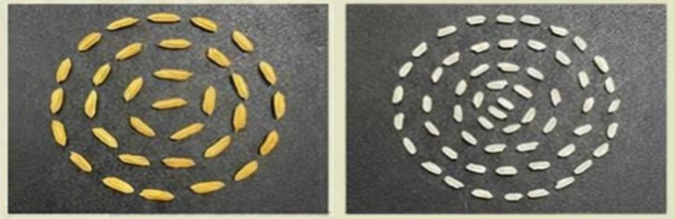
Ecology:	Irrigated Medium
Grain Type:	Short Bold
Duration:	125–130 days
Yield:	5.46 t/ha

QUALITY

HRR: 62.2% | AC: 26.2% | GC: 22 MM | ASV: 7.0

SHORT BOLD GRAINS & COOKING QUALITY

Short Bold Grain (DRR Dhan 84) | Short Bold Grain (Jaya)



Excellent cooking and eating qualities

KEY TRAITS

- More than 350–450 grains per panicle
- Good culm strength
- More panicle branches
- Excellent cooking and eating qualities

PEDIGREE

(Jaya*2/Isogenic line MTU 1010)

RESISTANCE

Resistant to Leaf Blast, Bacterial leaf blight and Plant Hoppers.

RECOMMENDED STATES

Odisha, Bihar, Jharkhand (Zone III), Maharashtra (Zone V), Tamil Nadu, Telangana, Andhra Pradesh (Zone VII)

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DRR Dhan 85

IET 32054 | High Yielding Irrigated Medium (NIL) Variety



+9.5%

mean overall zones (III, V, VII) yield superiority (weighted average)

over Improved Samba Mahsuri (ISM)

DRR Dhan 85 is a high-yielding, bacterial blight and gall midge-resistant, medium slender-fine grain type rice variety. Thus, the variety has shown a mean overall zones (III, V, VII) yield superiority of +9.5% (weighted average) over its recurrent parent, Improved Samba Mahsuri (ISM). The variety inherits the strong agronomic foundation of ISM, characterized by a semi-dwarf, non-lodging plant type and highly vigorous, erect leaves that contribute to excellent biomass production.

SALIENT FEATURES

Resistant to Bacterial leaf blight and Gall Midge.

ISM VS IET 32054



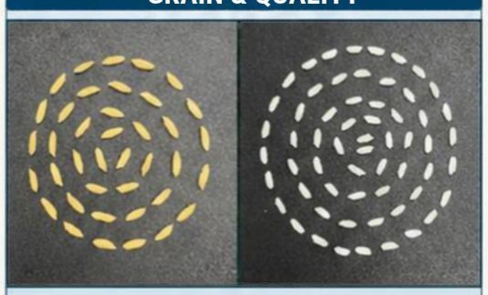
PLANT ARCHITECTURE

Semi-dwarf, non-lodging plant type; highly vigorous, erect leaves; excellent biomass production.

AT-A-GLANCE

- Ecology: Irrigated Transplanted
- Grain Type: Medium Slender
- Duration: 130–135 days
- Yield: 5.394 t/ha

GRAIN & QUALITY



QUALITY

HRR: 55% | AC: 26.2%
GC: 22 mm | ASV: 5.0

PEDIGREE

Improved Samba Mahsuri *2 / Abhaya / Aganni

RECOMMENDED STATES

Odisha, Bihar, Jharkhand (Zone III); Khattisgarh (Zone V); Gujarat, Maharashtra (Zone VI); Tamil Nadu, Telangana, Andhra Pradesh, Karnataka (Zone VII)

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DRR Dhan 95

IET 32047 | A High Yielding Rice Variety with medium slender grain rice with good cooking quality Rice Variety



DRR Dhan 95 is a High yielding irrigated rice variety in Near Isogenic line in the background of WGL-14. It has Enhanced resistance for BLB (Xa4+xa5+xa8+Xa21) & Plant Hoppers (Bph3+Bph17+Bph32) over recurrent parent (RP). It is a similar plant type to RP in terms of PH, GT and is one week earlier than RP (% Similarity with RP-91.81%).

Yield: 6.0 t/ha

Duration: 125 days

Resistant: Xa4+Xa5+Xa8+Xa21 Bph3+Bph17+Bph32

Salient Features: Enhanced resistance for BLB (Xa4+xa5+xa8+Xa21) & Plant Hoppers (Bph3+Bph17+Bph32)

BLB RESISTANT



PLANT HOPPER TOLERANCE



PEDIGREE:

WGL 14 / IR 96321-1447-561-B-1
WGL 14 / IR 81896-96-B-B-195
WGL 14 / IR 74371-46-1-1-13
WGL-14 /RP Patho-2
WGL 14 / RP Patho-3

GRAIN TYPE:	Medium Slender
IET NO:	32047
ECOLOGY:	Irrigated Isogenic

GRAIN QUALITY & TECHNICAL SPECIFICATION

HRR(%)	L/B ratio	ASV	GI	AC (%)	GC (mm)
59.1%	2.71	4.0	54.06	26.0%	40 mm

PEDIGREE

WGL 14 / IR 96321-1447-561-B-1 ///// WGL 14 / IR 81896-96-B-B-195 // WGL 14 / IR 74371-46-1-1-13 ///// WGL-14 /RP Patho-2// WGL 14 / RP Patho-3

RECOMMENDED STATES

Telangana, Andhra Pradesh, Karnataka, Tamil Nadu, Kerala and Puducherry

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