






## INDEX

List of rice varieties/ hybrids released from RRRS since 2014

Sr. No.	Variety	Year of Release	Ecology	Salient features
1	PURNA	2014	RAIN FED UPLAND	VERY EARLY, TALL DROUGHT TOLERANT
2	GNR-6	2016	RAINFED TRANSPLANTED	VERY EARLY, LONG SLENDER
3	GNRH-1	2016	IRRIGATED	LONG SLENDER, EARLY
4	GRH-2	2018	IRRIGATED	MEDIUM SLENDER, EARLY
5	GR-16 (TAPI)	2019	RAIN FED UPLAND	SEMI DWARF, NON LODGING
6	GR-17 (SARDAR)	2019	IRRIGATED	LONG BOLD, PUFFED AND BEATEN RICE
7	GR-18 (DEVLI KOLAM)	2020	IRRIGATED	MEDIUM SLENDER, EXCELLENT COOKING QUALITY
8	GNR-9(LAL KADA GOLD)	2021	IRRIGATED	RED KERNEL, BIOFORTIFIED WITH PROTEIN
9	GR-24 (NAVSARI PARIMAL)	2022	IRRIGATED	LONG SLENDER, EARLY MATURING, NON LODGING

<b>Variety</b>	<b>Purna</b>
<b>Year of release</b>	<b>2014</b>
<b>Parentage</b>	<b>Annada × RR 151-3</b>
<b>Ecosystem</b>	<b>Upland</b>
<b>Sowing Time</b>	<b>Onset of monsoon (<i>Kharif</i> season)</b>
<b>Sowing Distance</b>	<b>30 cm row to row</b>
<b>Seed Rate (kg/ha)</b>	<b>50</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>120-130 cm</b>
<b>(b) Plant type</b>	<b>Semi-Erect</b>
<b>(c) Foliage</b>	<b>Green</b>
<b>(d) Lodging</b>	<b>Non lodging</b>
<b>(e) Panicle</b>	<b>compact, Length : 25.1 cm</b>
<b>(f) Awns</b>	<b>Very occasional upper half only</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>93-97 days</b>
<b>(i) Grain type</b>	<b>Short bold</b>
<b>(j) 1000 grain weight (g )</b>	<b>18.5-19.5</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>Length : 7.56 Breadth: 2.90</b>
<b>(l) Grain classification</b>	<b>Short, Medium</b>
<b>(m) Kernel type</b>	<b>Short bold</b>
<b>(n) Kernel           Length (mm)</b>	<b>5.60</b>
<b>                          Breadth (mm)</b>	<b>2.30</b>
<b>                          L / B ratio</b>	<b>2.43</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Absent</b>
<b>(q) Grain yield (kg/ha)</b>	<b>2800-3300</b>
	
<b>Purna</b>	

<b>Variety</b>	<b>GNR-6</b>	
<b>Year of release</b>	<b>2016</b>	
<b>Parentage</b>	<b>IR 28 x NAUR 1</b>	
<b>Ecosystem</b>	<b>Rainfed Transplanted</b>	
<b>Sowing Time</b>	<b>First fortnight of July (<i>Kharif</i> season)</b>	
<b>Sowing Distance</b>	<b>30 cm row to row</b>	
<b>Seed Rate (kg/ha)</b>	<b>25</b>	
<b>Characteristics</b>		
<b>(a) Plant height (cm)</b>	<b>100-110 cm</b>	
<b>(b) Plant type</b>	<b>Erect</b>	
<b>(c) Foliage</b>	<b>Green</b>	
<b>(d) Lodging</b>	<b>Non lodging</b>	
<b>(e) Panicle</b>	<b>compact, Length : 20-22 cm</b>	
<b>(f) Awns</b>	<b>Awnless</b>	
<b>(g) Extra glumes</b>	<b>Absent</b>	
<b>(h) Maturity days (seed to seed)</b>	<b>100-105 days</b>	
<b>(i) Grain type</b>	<b>Long Slender</b>	
<b>(j) 1000 grain weight (g )</b>	<b>24-25</b>	
<b>(k) Grain length x Breadth (mm)</b>	<b>Length : 9.46</b>	<b>Breadth: 2.61</b>
<b>(l) Grain classification</b>	<b>Medium, medium</b>	
<b>(m) Kernel type</b>	<b>Long slender</b>	
<b>(n) Kernel</b>	<b>Length (mm)</b>	<b>6.66</b>
	<b>Breadth (mm)</b>	<b>2.13</b>
	<b>L / B ratio</b>	<b>3.13</b>
<b>(o) Cooking quality</b>	<b>Good</b>	
<b>(p) Aroma</b>	<b>Absent</b>	
<b>(q) Grain yield (kg/ha)</b>	<b>4000-4500</b>	
		
<b>GNR-6</b>		

<b>Variety</b>	<b>GNRH 1</b>
<b>Year of release</b>	<b>2016</b>
<b>Parentage</b>	<b>IR 58025A × 12SP 105</b>
<b>Ecosystem</b>	<b>Transplanted</b>
<b>Sowing Time</b>	<b>Summer (Nov-Dec)</b>
<b>Sowing Distance</b>	<b>6 females lines:2 Male lines</b>
<b>Seed Rate (kg/ha)</b>	<b>15-20 Female, 8-10 Male</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>115-125 cm</b>
<b>(b) Plant type</b>	<b>Erect</b>
<b>(c) Foliage</b>	<b>Green with strong clum</b>
<b>(d) Lodging</b>	<b>Non lodging</b>
<b>(e) Panicle</b>	<b>compact, Length : 26-28 cm</b>
<b>(f) Awns</b>	<b>Occasionally awns</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>110-115 days</b>
<b>(i) Grain type</b>	<b>Long Slender</b>
<b>(j) 1000 grain weight (g )</b>	<b>24.5</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>Length : 10.68 Breadth: 2.52</b>
<b>(l) Grain classification</b>	<b>Long, Narrow</b>
<b>(m) Kernel type</b>	<b>Long slender</b>
<b>(n) Kernel           Length (mm)</b>	<b>7.50</b>
<b>                          Breadth (mm)</b>	<b>2.11</b>
<b>                          L / B ratio</b>	<b>3.55</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Mild</b>
<b>(q) Grain yield (kg/ha)</b>	<b>5000-5500</b>
 <p><b>GNRH 1</b></p>	



<b>Variety</b>	<b>GRH-2</b>
<b>Year of release</b>	<b>2018</b>
<b>Parentage</b>	<b>NVSR-MS1A x 12KP 10</b>
<b>Ecosystem</b>	<b>Transplanted</b>
<b>Sowing Time</b>	<b>Kharif</b>
<b>Sowing Distance</b>	<b>6 females lines:2 Male lines</b>
<b>Seed Rate (kg/ha)</b>	<b>15-20 Female, 8-10 Male</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>125-135</b>
<b>(b) Plant type</b>	<b>Erect</b>
<b>(c) Foliage</b>	<b>Green</b>
<b>(d) Lodging</b>	<b>Non lodging</b>
<b>(e) Panicle</b>	<b>Long, Well exerted &amp; compact, Length : 27.2 cm</b>
<b>(f) Awns</b>	<b>Awns upper half only</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>120-125 days</b>
<b>(i) Grain type</b>	<b>Medium Slender</b>
<b>(j) 1000 grain weight (g )</b>	<b>19.6</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>Length : 8.50 Breadth: 2.42</b>
<b>(l) Grain classification</b>	<b>Medium slender</b>
<b>(m) Kernel type</b>	<b>Medium slender</b>
<b>(n) Kernel        Length (mm)</b>	<b>5.78</b>
<b>                         Breadth (mm)</b>	<b>2.03</b>
<b>                         L / B ratio</b>	<b>2.84</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Present</b>
<b>(q) Grain yield (kg/ha)</b>	<b>6000-6500</b>
 <p style="text-align: center;"><b>GRH-2</b></p>	

<b>Variety</b>	<b>GR-16 (Tapi)</b>
<b>Year of release</b>	<b>2019</b>
<b>Parentage</b>	<b>GR-5 x Danteswari</b>
<b>Ecosystem</b>	<b>Upland</b>
<b>Sowing Time</b>	<b>Onset of monsoon (<i>Kharif</i> season)</b>
<b>Sowing Distance</b>	<b>30 cm row to row</b>
<b>Seed Rate (kg/ha)</b>	<b>50</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>95-100 cm</b>
<b>(b) Plant type</b>	<b>Erect</b>
<b>(c) Foliage</b>	<b>Green</b>
<b>(d) Lodging</b>	<b>Non lodging</b>
<b>(e) Panicle</b>	<b>compact, Length : 25.3 cm</b>
<b>(f) Awns</b>	<b>Absent</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>95-100 days</b>
<b>(i) Grain type</b>	<b>Long bold</b>
<b>(j) 1000 grain weight (g )</b>	<b>27-28</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>Length : 9.17 Breadth: 3.03</b>
<b>(l) Grain classification</b>	<b>Medium, Medium</b>
<b>(m) Kernel type</b>	<b>Long bold</b>
<b>(n) Kernel           Length (mm)</b>	<b>6.68</b>
<b>                          Breadth (mm)</b>	<b>2.60</b>
<b>                          L / B ratio</b>	<b>2.56</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Absent</b>
<b>(q) Grain yield (kg/ha)</b>	<b>3500-4000</b>



**GR-16 (Tapi)**



<b>Variety</b>	<b>GR-17 (SARDAR)</b>
<b>Year of release</b>	<b>2019</b>
<b>Parentage</b>	<b>Gurjari x Jaya.</b>
<b>Ecosystem</b>	<b>Transplanted</b>
<b>Sowing Time</b>	<b>1<sup>st</sup> fortnight of June, TP- 1<sup>st</sup> July to 15<sup>th</sup> July</b>
<b>Sowing Distance</b>	<b>20 × 15 cm</b>
<b>Seed Rate (kg/ha)</b>	<b>25</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>110-115 cm</b>
<b>(b) Plant type</b>	<b>Erect</b>
<b>(c) Foliage</b>	<b>Green</b>
<b>(d) Lodging</b>	<b>Non lodging</b>
<b>(e) Panicle</b>	<b>compact, Length : 22.8 cm</b>
<b>(f) Awns</b>	<b>Awn present on tip only</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>113-115 days</b>
<b>(i) Grain type</b>	<b>Long bold</b>
<b>(j) 1000 grain weight (g )</b>	<b>32.8</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>Length : 10.13 Breadth: 3.00</b>
<b>(l) Grain classification</b>	<b>Medium, Medium</b>
<b>(m) Kernel type</b>	<b>Long bold</b>
<b>(n) Kernel            Length (mm)</b>	<b>7.56</b>
<b>                                 Breadth (mm)</b>	<b>2.60</b>
<b>                                 L / B ratio</b>	<b>2.91</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Absent</b>
<b>(q) Grain yield (kg/ha)</b>	<b>5500-6000</b>
	
<b>GR-17 (SARDAR)</b>	

<b>Variety</b>	<b>GR-18 (Devli Kolam)</b>
<b>Year of release</b>	<b>2020</b>
<b>Parentage</b>	<b>GAR-13 x JGL-3828</b>
<b>Ecosystem</b>	<b>Transplanted</b>
<b>Sowing Time</b>	<b>1<sup>st</sup> fortnight of June, TP- 1<sup>st</sup> July to 15<sup>th</sup> July</b>
<b>Sowing Distance</b>	<b>20 × 15 cm</b>
<b>Seed Rate (kg/ha)</b>	<b>25</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>120-130</b>
<b>(b) Plant type</b>	<b>Semi-erect</b>
<b>(c) Foliage</b>	<b>Green</b>
<b>(d) Lodging</b>	<b>Non lodging</b>
<b>(e) Panicle</b>	<b>Long, Well exerted &amp; compact, Length : 26.6 cm</b>
<b>(f) Awns</b>	<b>Absent</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>110-115</b>
<b>(i) Grain type</b>	<b>Medium Slender</b>
<b>(j) 1000 grain weight (g )</b>	<b>16.1</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>8.17 x 2.24</b>
<b>(l) Grain classification</b>	<b>Medium slender</b>
<b>(m) Kernel type</b>	<b>Medium slender</b>
<b>(n) Kernel            Length (mm)</b>	<b>5.45</b>
<b>                                 Breadth (mm)</b>	<b>1.98</b>
<b>                                 L / B ratio</b>	<b>2.77</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Absent</b>
<b>(q) Grain yield (kg/ha)</b>	<b>5400-5800</b>



**GR-18 (Devli Kolam)**







<b>Variety</b>	<b>GNR-9 (Lal Kada Gold)</b>
<b>Year of release</b>	<b>2021</b>
<b>Parentage</b>	<b>IR 28 x Lalkada</b>
<b>Ecosystem</b>	<b>Transplanted</b>
<b>Sowing Time</b>	<b>1<sup>st</sup> fortnight of June, TP- 1<sup>st</sup> July to 15<sup>th</sup> July</b>
<b>Sowing Distance</b>	<b>20 × 15 cm</b>
<b>Seed Rate (kg/ha)</b>	<b>25</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>105-115</b>
<b>(b) Plant type</b>	<b>Semi-erect</b>
<b>(c) Foliage</b>	<b>Green</b>
<b>(d) Lodging</b>	<b>Non lodging</b>
<b>(e) Panicle</b>	<b>Long, Well exerted &amp; compact, Length : 21-24 cm</b>
<b>(f) Awns</b>	<b>Absent</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>110-115</b>
<b>(i) Grain type</b>	<b>Long Slender</b>
<b>(j) 1000 grain weight (g )</b>	<b>23.79</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>8.58 x 2.77</b>
<b>(l) Grain classification</b>	<b>Long slender</b>
<b>(m) Kernel type</b>	<b>Long slender</b>
<b>(n) Kernel            Length (mm)</b>	<b>6.67</b>
<b>                                 Breadth (mm)</b>	<b>2.21</b>
<b>                                 L / B ratio</b>	<b>3.02</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Absent</b>
<b>(q) Grain yield (kg/ha)</b>	<b>4000-4500</b>



**GNR-9 (Lal Kada Gold)**



<b>Variety</b>	<b>GR-25 (NAVSARI PARIMAL)</b>
<b>Year of release</b>	<b>2022</b>
<b>Parentage</b>	<b>Gurjari x IR-28</b>
<b>Ecosystem</b>	<b>Irrigated</b>
<b>Sowing Time</b>	<b>1<sup>st</sup> fortnight of June, TP- 1<sup>st</sup> July to 15<sup>th</sup> July</b>
<b>Sowing Distance</b>	<b>20 × 15 cm</b>
<b>Seed Rate (kg/ha)</b>	<b>25</b>
<b>Characteristics</b>	
<b>(a) Plant height (cm)</b>	<b>105-119</b>
<b>(b) Plant type</b>	<b>Erect</b>
<b>(c) Foliage</b>	<b>Green</b>
<b>(d) Lodging</b>	<b>Non Lodging</b>
<b>(e) Panicle</b>	<b>Medium, well exerted and compact</b>
<b>(f) Awns</b>	<b>Absent</b>
<b>(g) Extra glumes</b>	<b>Absent</b>
<b>(h) Maturity days (seed to seed)</b>	<b>110-115</b>
<b>(i) Grain type</b>	<b>Long slender</b>
<b>(j) 1000 grain weight (g )</b>	<b>25.1</b>
<b>(k) Grain length x Breadth (mm)</b>	<b>9.33 × 2.53</b>
<b>(l) Grain classification</b>	<b>Long slender</b>
<b>(m) Kernel type</b>	<b>Long slender</b>
<b>(n) Kernel            Length (mm)</b>	<b>7.01</b>
<b>                                 Breadth (mm)</b>	<b>2.31</b>
<b>                                 L / B ratio</b>	<b>3.04</b>
<b>(o) Cooking quality</b>	<b>Good</b>
<b>(p) Aroma</b>	<b>Absent</b>
<b>(q) Grain yield (kg/ha)</b>	<b>4800-5300</b>
	 Navsari Parimal GR 25