



## Mahatma Phule Krishi Vidyapeeth, Rahuri

### Information about Crop wise Improved / Hybrid Varieties Developed by University

### Improved / Hybrid Varieties of Bajra

#### Shradha (RHRBH 8609) (Hybrid)



	<b>Release year</b>	1990 (State Release)
	<b>Name of Institute / University</b>	MPKV, Rahuri
	<b>Soil type</b>	lighter to medium
	<b>Climate</b>	Bajra growing areas of the scarcity zone of Maharashtra State in kharif season.
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	1.5 kg	
<b>Crop duration</b>	70 to 75 days (early maturity)	
<b>Productivity</b>	25 to 27 q/ha	
<b>Characters / features</b>	Early maturity hybrid, Bold and gary colour seed, Compact earhed, Bristles on earhead hence less affected by birds, Resistant to downy mildew disease.	

#### Saburi (RHRBH 8924) (Hybrid)



	<b>Release year</b>	1995
	<b>Name of Institute / University</b>	MPKV, Rahuri
	<b>Soil type</b>	Lighter to medium
	<b>Climate</b>	
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	1.5 kg	
<b>Crop duration</b>	76 to 80 days	
<b>Productivity</b>	28 to 30 q/ha	
<b>Characters / features</b>		



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#### Hybrid Shanti (RHRBH 9808)



<b>Release year</b>	2006 (National Release)
<b>Name of Institute / University</b>	MPKV, Rahuri
<b>Soil type</b>	lighter to medium
<b>Climate</b>	Western Maharashtra under kharif rainfed situation.
<b>Soing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	1.5 kg
<b>Crop duration</b>	80 to 85 days (medium maturity)
<b>Productivity</b>	30 to 31 q/ha
<b>Characters / features</b>	Medium maturity hybrid, Mid-tall shorter than shradhha & Saburi, Bold grain with good colour, Good bread quality, National Level Release

#### Variety Dhanshakti ICTP 8203 10-2 Fe)



<b>Release year</b>	2012
<b>Name of Institute / University</b>	Bajra Research Station, Dhule & ICRISAT, Patancheru, Telangana
<b>Soil type</b>	light to medium
<b>Climate</b>	Bajra growing area of India under kharif rainfed situation.
<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	1.5 kg
<b>Crop duration</b>	74 to 78 days (early maturity)
<b>Productivity</b>	22 q/ha
<b>Characters / features</b>	High Fe content (81 ppm), Early maturing variety, Bold globular grain with gray colour, Tolerant to downy mildew disease, Specifically suitable for drought prone environments, State & National Release



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#### Hybrid Phule Aadishakti (DHBH 9071)



	<b>Release year</b>	2015
	<b>Name of Institute / University</b>	Bajra Research Station, Dhule
	<b>Soil type</b>	light to medium
	<b>Climate</b>	Bajra growing area of Maharashtra under kharif rainfed situation.
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	1.5 kg	
<b>Crop duration</b>	80 to 85 days (medium maturity))	
<b>Productivity</b>	32-34 q/ha	
<b>Characters / features</b>	Resistant to downy mildew disease, Bold globular grain with gray colour, Beneficial to seed producer due to high yielding female, Good bread quality, State Release	

#### Hybrid Phule Mahashakti (DHBH 1211)



	<b>Release year</b>	2017 ( State Release)
	<b>Name of Institute / University</b>	Bajra Research Station, Dhule & ICRISAT, Patancheru, Telangana
	<b>Soil type</b>	light to medium
	<b>Climate</b>	Bajra growing area of Maharashtra under kharif rainfed situation.
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>	1.5 kg	
<b>Crop duration</b>	85 to 90 days	
<b>Productivity</b>	29-30 q/ha	
<b>Characters / features</b>	High Fe content (87 ppm), Very compact earhead, bold globular grain with gray colour, Tolerant to downy mildew disease.	



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#### MH 2114 (DHBH 1397)



	<b>Release year</b>	2018 ( National Release)
	<b>Name of Institute / University</b>	Bajra Research Station, Dhule
	<b>Soil type</b>	light to medium
	<b>Climate</b>	Bajra growing area of India A zone (rainfall below 400mm) Rajasthan, Haryana, Punjab,UP, MP, Delhi and Gujrat under kharif rainfed situation.
	<b>Sowing Time / Planting period</b>	15 <sup>th</sup> June to 15 <sup>th</sup> July
<b>Seed Rate (Per acre)</b>		1.5 kg
<b>Crop duration</b>		78 to 80 days
<b>Productivity</b>		34-35 q/ha
<b>Characters / features</b>		Medium maturing hybrid, Long compact earhead, bold globular grain with gray colour, Resistant to downy mildew disease.




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### Improved / Hybrid Varieties of Paddy

#### Radhanagari 185-2

	<b>Release year</b>	1974
	<b>Name of Institute / University</b>	Agricultural Research Station, Radhanagari, Dist. Kolhapur
	<b>Soil type</b>	Light to Medium
	<b>Climate</b>	Warm and Humid, Rainfall more than 800 mm
<b>Sowing Time / Planting period</b>	May 15 – June 15 The crop should be Transplanted 20 to 24 days after sowing	
<b>Seed Rate (Per acre)</b>	Transplanting Method – 15 – 18 kg / Acre Dibbling Method – 20 – 25 kg / Acre Drilling Method - 35 – 40 kg / Acre	
<b>Crop duration</b>	105 to 110 days	
<b>Productivity</b>	35 to 40 qt./ha.	
<b>Characters / features</b>	A. Dwarf, Early duration B. Short Bold grain, Non-Scented C. Broad leaves	
<b>Remark</b>	Released for cultivation in western Maharashtra. Popular for puffed and parched rice.	

#### Darna


	<b>Release year</b>	1980
	<b>Name of Institute / University</b>	Zonal Agriculture Research Station, Igatpuri Dist. Nasik
	<b>Soil type</b>	Lite to Medium
	<b>Climate</b>	Warm and Humid
<b>Sowing Time / Planting period</b>	June-July	
<b>Seed Rate (Per acre)</b>	12-15 Kg./Acre	
<b>Crop duration</b>	130 to 135 Days	
<b>Productivity</b>	35 to 40 qt./ha.	
<b>Characters / features</b>	Long Slender grain , Non-Scented, Suitable for very light soil, Resistant to BLB, Resistant to Stem borer	




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#### Indrayani

	<b>Release year</b>	1987
	<b>Name of Institute / University</b>	Agricultural Research Station, Vadgaon Maval, Dist. Pune
	<b>Soil type</b>	Light to medium
	<b>Climate</b>	Tropical and warm climate. Rainfall 800 mm and above. Temperature 25 to 35 °C and humidity more than 65-70%.-
<b>Sowing Time / Planting period</b>	Nursery- June Transplanting- July	
<b>Seed Rate (Per acre)</b>	Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre	
<b>Crop duration</b>	135-140 days	
<b>Productivity</b>	40-45 qt./ha.	
<b>Characters / features</b>	A. Long slender, scented, translucent, midlate. B. Moderately resistant to blast and blight.	

#### Kundalika

	<b>Release year</b>	1988
	<b>Name of Institute / University</b>	Agricultural Research Station, Vadgaon Maval, Dist. Pune
	<b>Soil type</b>	Light to medium
	<b>Climate</b>	Tropical and warm climate. Rainfall of 800 mm and above. Temperature of 25 to 35 °C and humidity more than 65-70%.-
<b>Sowing Time / Planting period</b>	Nursery- June Transplanting- July	
<b>Seed Rate (Per acre)</b>	Transplanted Paddy- 8-10 kg./Acre Drilling - 20-25 kg./Acre	
<b>Crop duration</b>	125-130 days	
<b>Productivity</b>	30-35 qt./ha.	
<b>Characters / features</b>	A. Short slender, midlate variety, suitable for shallow soils B. Moderately resistant to blast.	



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#### Pawana



	<b>Release year</b>	1988
	<b>Name of Institute / University</b>	Agricultural Research Station, Vadgaon Maval, Dist. Pune
	<b>Soil type</b>	Light to medium
	<b>Climate</b>	Tropical and warm climate. Rainfall of 800 mm and above. Temperature 25 to 35 °C and humidity more than 65-70%.-
<b>Sowing Time / Planting period</b>	Nursery- June Transplanting- July	
<b>Seed Rate (Per acre)</b>	Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre	
<b>Crop duration</b>	115-120 days	
<b>Productivity</b>	35-40 qt./ha.	
<b>Characters / features</b>	A. Long slender, early variety having awns. B. Moderately resistant to blast.	

#### Phule Maval



	<b>Release year</b>	2000
	<b>Name of Institute / University</b>	Agricultural Research Station, Vadgaon Maval, Dist. Pune
	<b>Soil type</b>	Light to medium
	<b>Climate</b>	Tropical and warm climate. Rainfall of 800 mm and above. Temperature 25 to 35 °C and humidity more than 65-70%.-
<b>Sowing Time / Planting period</b>	Nursery- June Transplanting- July	
<b>Seed Rate (Per acre)</b>	Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre	
<b>Crop duration</b>	125-130 days	
<b>Productivity</b>	40-45 qt./ha.	
<b>Characters / features</b>	A. Long bold, midlate, translucent grain. B. Moderately resistant to blast and blight	



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#### Phule Radha



	<b>Release year</b>	2006
	<b>Name of Institute / University</b>	Agricultural Research Station, Radhanagari, Dist. Kolhapur
	<b>Soil type</b>	Light to Medium
	<b>Climate</b>	Warm and Humid, Rainfall more than 800 mm
<b>Sowing Time / Planting period</b>	Sowing time : May 15 – June 15 The crop should be Transplanted 20 to 24 days after sowing	
<b>Seed Rate (Per acre)</b>	Transplanting Method – 12 – 15 kg / Acre Dibbling Method – 20 – 25 kg / Acre Drilling Method - 30 – 35 kg / Acre	
<b>Crop duration</b>	115 to 120 days	
<b>Productivity</b>	40 to 45 qt./ha	
<b>Characters / features</b>	A. Medium Height, Early duration B. Short Slender grain, Non-Scented C. Broad leaves D. Moderately resistant to BLB	

#### Bhogavati



	<b>Release year</b>	2006
	<b>Name of Institute / University</b>	Agricultural Research Station, Radhanagari, Dist. Kolhapur
	<b>Soil type</b>	Light to Medium
	<b>Climate</b>	Warm and Humid, Rainfall more than 800 mm
<b>Sowing Time / Planting period</b>	Sowing time : May 15 – June 15 The crop should be Transplanted 25 to 30 days after sowing	
<b>Seed Rate (Per acre)</b>	Transplanting Method – 15 – 20 kg / Acre Dibbling Method – 25 – 30 kg / Acre Drilling Method - 35 – 40 kg / Acre	
<b>Crop duration</b>	135 to 140 days	
<b>Productivity</b>	45 to 50 qt / ha	
<b>Characters / features</b>	A. Medium Height, Late duration B. Long Slender grain, Scented C. 3 to 5% grains with awns D. Moderately resistant to BLB E. Released for cultivation in Maharashtra state, Cooked rice Non-sticky.	






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#### Phule Samruddhi

	<b>Release year</b>	2007
	<b>Name of Institute / University</b>	Agricultural Research Station, Vadgaon Maval, Dist. Pune
	<b>Soil type</b>	Light to medium
	<b>Climate</b>	Tropical and warm climate. It grows better in the rainfall of 800 mm and above. It requires temperature of 25 to 35°C and humidity more than 65-70%.-
<b>Sowing Time / Planting period</b>	Nursery- June Transplanting- July	
<b>Seed Rate (Per acre)</b>	Transplanted Paddy- 12-15 kg./Acre Drilling - 30-35 kg./Acre	
<b>Crop duration</b>	125-130 days	
<b>Productivity</b>	45-50 qt./ha.	
<b>Characters / features</b>	A. Long slender, scented, translucent, midlate variety. B. Moderately resistant to blast, blight and stem borer.	

#### Phule RDN – 6

	<b>Release year</b>	2013
	<b>Name of Institute / University</b>	Agricultural Research Station, Radhanagari, Dist. Kolhapur
	<b>Soil type</b>	Light to Medium
	<b>Climate</b>	Warm and Humid, Rainfall more than 800 mm
<b>Sowing Time / Planting period</b>	Sowing time : May 15 – June 15 The crop should be Transplanted 23 to 27 days after sowing	
<b>Seed Rate (Per acre)</b>	Transplanting Method – 15 – 20 kg / Acre Dibbling Method – 25 – 30 kg / Acre Drilling Method - 35 – 40 kg / Acre	
<b>Crop duration</b>	125 to 130 days	
<b>Productivity</b>	40 to 45 qt. / ha	
<b>Characters / features</b>	A. Medium Height, Mid-Late duration B. Long Slender grain, Non-Scented C. Moderately resistant to BLB	



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#### Phule Kolam (VDN-1832)



	<b>Release year</b>	2023
	<b>Name of Institute / University</b>	Agricultural Research Station, Vadgaon Maval, Dist. Pune
	<b>Soil type</b>	Light to medium
	<b>Climate</b>	Tropical and warm climate, rainfall of 800 mm and above, temperature of 25 <sup>0</sup> C to 35 <sup>0</sup> C and humidity more than 65%.
	<b>Sowing Time / Planting period</b>	First week to last week of June
	<b>Seed Rate</b>	22 kg/ ha
	<b>Crop duration</b>	Midlate maturity -125 to 130 days
	<b>Productivity</b>	48.78 qt./ha.
	<b>Characters / features</b>	Short slender grain type, resistant to brown spot and stem borer, moderately resistant to the diseases leaf blast, sheath rot, neck blast, grain (glume) discoloration, higher milling (68.16 %) and Head Rice Recovery (63.97 %), excellent cooking quality [intermediate amylose content (23.7 %) and high gel consistency (75 mm)]. Release for Western Maharashtra in kharif season.

#### Phule Super Pawana (IGP-13-12-19)



	<b>Release year</b>	2023
	<b>Name of Institute / University</b>	Zonal Agricultural Research Station, Igatpuri
	<b>Soil type</b>	Light to Medium
	<b>Climate</b>	<i>Kharif</i> - Rice-growing areas of Western Maharashtra having assured rainfall
	<b>Sowing Time / Planting period</b>	First week to last week of June
	<b>Seed Rate</b>	30 kg/ha
	<b>Crop duration</b>	Midlate maturity -130 to 135 days
	<b>Productivity</b>	54.63 qt. / ha
	<b>Characters / features</b>	It is awnless, mid late duration and long slender scented grain type, resistant to stem borer & Moderately resistant to Brown plant hoppers, high milling percentage (69.22 %) and head rice recovery (59.49 %), high in Iron (17.7 ppm) and Zinc (20.0 ppm) content, excellent cooking quality - Amylose content (20.90 %). Release for Western Maharashtra in kharif season.