

Table 1: Parentage, notification details, adaptation niches, maturity group/duration and major salient features of pearl millet hybrids developed in India since 2009

A₁ Zone:

Hybrids	Parentage (A x R)	Notification number	Notification date	Registration No. with PPV& FRA	Bred at	Area of adaptation	Maturity group/duration and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
BHB-1202 (Bikaner Hybrid Bajra1202) (MH 1831)	ICMA 843-22 x BIB-22	S.O 1379(E)	27/03/2018	-	ICAR-AICRP-PM, SKRAU, Bikaner	Rajasthan	Early maturing, compact conical earhead, yellow brown globular shaped grains, yellow brown anther color, highly resistant to downy mildew, blast and major pests	45	76	1776	28	47	42
Balwan (NBH 4903) (MH 1743)	NB 105A x NB 98R	S.O 1379(E)	27/03/2018	-	Nuziveedu Seeds Ltd, TS	Rajasthan	Late maturing, medium plant height with long exerted compact panicles, medium bold grains, tolerant to major diseases and pests, non lodging, non shattering, resistant to drought	58	86	3103	98	53	41
GK 1116 (MH 1974)	GK 100A (PM 100A) x GK 120R (PM 120R)	S.O 1379(E)	27/03/2018	-	Ganga Kaveri Seeds Pvt. Ltd., Hyderabad	Rajasthan	Medium maturing, medium plant height, very compact ear head cylindrical spike shape, tolerant to downy mildew, rust, smut and ergot, tolerant to stem borer, highly responsive to fertilizers	49	79	3644	58	46	27

Central Pearl Millet Hybrid RHB 223 (MH 1998) (RHB 223)	ICMA 96666 x RIB 3135-18	S.O 1379(E)	27/03/2018	-	ICAR-AICRP-PM, SKNAU, Jaipur	Rajasthan, Gujarat and Haryana	Early maturing, brown anthers, long brown bristles, resistant to DM, blast and smut, resistant to shoot fly, stem borer and grey weevil, tolerant to stress	44	71	2969	55	46	40
JKBH 1008 (MH 1828)	JKMS 1954A x JKR 16010	S. O. 3540 (E)	24.11.2016	-	JK Agri Genetics Hyderabad	Drier part of Gujarat, Rajasthan and Haryana.	Early maturing, yellow anther colour, cylindrical compact earheads, grey coloured globular grains, resistant to downy mildew and blast	46	75	2383	43	42	38
MPMH 21 (MH 1777)	ICMA 93333 x MIR 524	S. O. 2238 (E)	29.06.2016	-	AICRP-Pearl Millet, Jodhpur	Drier part of Rajasthan, Gujarat and Haryana	Early maturing, brown anthers, lanceolate compact ear heads, grey brown hexagonal grains, resistant to downy mildew, blast and smut	47	75	2469	48	41	35
HHB 272 (MH 1837)	HMS 47A x AC 04/13	S. O. 2238 (E)	29.06.2016	-	AICRP-Pearl Millet CCS HAU Hisar	Drier part of Rajasthan, Gujarat and Haryana	Early maturing, brown anthers, lanceolate compact ear heads, grey globular grains, resistant to blast.	45	74	2421	44	44	33
Proagro Tejas	PSP53 x PP56	S. O. 112 (E)	12.01.2016	-	Bayer Bio Science Hyderabad	Rajasthan	Early maturing, medium height, candle ear heads, grey seeds, resistant to downy mildew	-	-	-	-	-	-

HHB 234 (MH 1561)	HMS 7A x H77/833- 2-202	S. O. 952 (E)	10.04.2013	-	AICPMIP CCS HAU Hisar	Western Rajasthan and drier part of Gujarat and Haryana	Early maturing, candle shaped earheads with small bristles, medium seed size and tolerant to downy mildew	48	76	1756	40	38	40
Bio 70 (MH 1632)	11A x R 207	S. O. 2125 (E)	10.09.2012	-	Bioseed Research India Pvt. Ltd., Hyderabad	Western Rajasthan and drier part of Gujarat and Haryana	Early maturing, conical compact earheads, yellow anther colour, globular grey seed and tolerant to downy mildew	48	77	2023	43	46	38
HHB-226 (MH 1479)	ICMA 843-22 x HBL-11	S.O. 632 (E)	25.3.2011	-	AICPMIP, CCS HAU, Hisar	Western Rajasthan and drier part of Gujarat and Haryana	Medium maturing, medium height, dark green leaves, candle shaped bristled earheads, resistant to downy mildew	48	75	2081	45	38	41
RHB-177 (MH-1486)	ICMA 843-22 x RIB 494	S.O. 632 (E)	25.3.2011	-	AICPMIP, SKRAU, Jaipur	Western Rajasthan and drier part of Gujarat and Haryana	Early maturing, medium tall, cylindrical bristled earheads, resistant to downy mildew, light yellow anthers	46	74	2047	43	42	39
HHB 216 (MH 1421)	HMS 37A x HTP 3/13	S.O.211 (E)	29.1.2010	-	AICPMIP, CCS HAU, Hisar	Western Rajasthan and drier part of Gujarat and Haryana	Medium maturing, resistant to downy mildew, candle shaped medium long to togo earheads with brownish long bristled	49	76	2300	53	-	-
RHB 154	ICMA 95444 x RIB 57 S/05	S.O.2187 (E)	27.8.2009	-	AICPMIP ARS Durgapura, Jaipur	Western Rajasthan and drier part of Gujarat and Haryana	Early maturing, medium tall, resistant to downy mildew, tolerant to lodging, light yellow anthers, cylindrical earhead	48	76	2552	57	-	-

A Zone:

Hybrids	Parentage (A x R)	Notification number	Notification date	Registration No. with PPV& FRA	Bred at	Area of adaptation	Maturity group/duration and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
PB 1852 (MH 2224)	PSP 95 x PP 110	S.O 3220(E)	06/09/2019	-	Bayer BioScience Pvt. Ltd., Hyderabad	Rajasthan, Gujarat, Haryana, Madhya Pradesh, Uttar Pradesh, Punjab and Delhi	Medium maturing, grey colour grain with bold size, lodging tolerant, responsive to fertilizers, resistant to DM and blast, tolerant to moisture stress	50	82	3383	95	56	32
JKBH 1326 (MH 2228)	JKMS 1388A x JKR 16049	S.O 3220(E)	06/09/2019	-	JK Agri Genetics Hyderabad	Rajasthan, Gujarat, Haryana, Madhya Pradesh, Uttar Pradesh and Punjab	Medium maturing, medium thick, very long, conical and compact head, clear exertion with small to medium size pale yellow grain, highly resistant to downy mildew, rust, smut, ergot and blast	51	79	3292	82	48	33
DHBH 1397 (MH 2114)	DHLB 16A x DHLBI 1035	S.O 3220(E)	06/09/2019	-	ICAR- AICRP-PM, BRS, MPKV, Dhule	Rajasthan, Gujarat, Haryana, Madhya Pradesh, Uttar Pradesh, Punjab and Delhi	Medium maturing, dual purpose hybrid, globular shaped grey colour seed, highly resistant to downy mildew and blast	49	80	3390	74	59	36

PROAGRO 9450 (Bayer 9450)	PSP61 x PP63	S.O. 1498(E)	01/04/2019		Bayer BioScience Pvt. Ltd., Hyderabad	Uttar Pradesh	Late maturing, dual purpose hybrid, tall, long compact conical panicles, tolerant to lodging, tolerant to downy mildew and blast diseases	58	86	3861	136	71	58
Pusa 1201 (MH 1849)	MS 411 A x ICMR 07333	S.O 1379(E)	27/03/2018	-	ICAR-IARI, New Delhi	National Capital Territory of Delhi	Medium maturing, yellow anthers, cylindrical panicles, stay green trait, highly resistant to downy mildew, smut and rust, highly resistant to pests, highly responsive to fertilizers	50	80	2810	72	55	48
PB 1705 (MH 2008)	PSP 83 x PP 78	S.O 1379(E)	27/03/2018	-	Bayer BioScience Pvt. Ltd., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, Madhya Pradesh and Uttar Pradesh	Medium maturing, grey color grain with bold size, resistant to DM, blast, rust, smut & ergot, tolerant to lodging, tolerant to shoot fly and stem borer	49	79	3640	88	49	32
XMT 1497 (MH 1928)	PSP 69 x PP 71	S. O. 3540 (E)	24.11.2016	-	Bayer Bio Science Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Medium maturing, medium plant height, purple anther colour, very compact cylindrical earheads, grey coloured hexagonal grains, resistant to downy mildew blast, rust and ergot	47	79	3693	89	56	33

KBH 3940 (MH 1984)	KBMS 61 x KBR 986	S. O. 3540 (E)	24.11.2016	-	Kaveri Seed Co. Ltd., Secundrabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, medium plant height, brown anther colour, semi compact lanceolate earheads, grey coloured obovate grains, resistant to downy mildew blast, rust and ergot	56	86	3738	96	48	40
Bio 8145 (MH 1970)	EM141 x LM240	S. O. 3540 (E)	24.11.2016	-	Bioseed Research India Pvt. Ltd., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, tall plant height, yellow anther colour, compact cylindrical earheads, grey coloured globular grains, resistant to downy mildew blast, rust and ergot	44	87	3630	95	58	39
JKBH 1100 (MH 1810)	JKMS 1331A x JKR 16005	S. O. 3540 (E)	24.11.2016	-	JK Agri Genetics Hyderabad	Uttar Pradesh	Late maturing, compact cylindrical earheads, yellow coloured anthers resistant to downy mildew, rust & smut diseases	50	74	5278	117	-	-
86M82 (MH 1888)	M156F x M172R	S. O. 3540 (E)	24.11.2016	-	Pioneer Overseas Corp., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, purple coloured anthers, compact lanceolate long earheads, grey coloured obovate seeds resistant to downy mildew, ergot, rust and smut	54	84	3806	104	57	39

86M84 (MH 1890)	M162F x M172R	S. O. 2238 (E)	29.06.2016	-	Pioneer Overseas Corp., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, yellow anthers, lanceolate very compact ear heads, grey obovate bold grains resistant to resistance to downy mildew and blast other disease	55	85	3849	111	52	40
PHB 2884	ICMA 22777 x PIB 686	S. O. 112 (E)	12.01.2016	-	AICRP-Peal Millet, PAU, Ludhiana	Punjab	Late maturing, tall plant height, lanceolate ears heads, grey seeds	56	88	3306	-	-	-
KBH 108 (MH 1737)	KMPS- 74A x KPR- 9288R	S. O. 244 (E)	24.01.2014	-	Krishna Seed (P) Ltd., Agra	Rajasthan, Gujarat, Haryana, Punjab, UP and MP	Late maturing, tall plant height, purple anther colour, cylindrical very compact ear heads, obovate grey seed, resistant to downy mildew, blast and smut	56	86	3551	111	-	-
GHB-905 (MH-1655)	ICMA 04999 x J- 2454	S. O. 2815 (E)	19.09.2013	-	AICPMIP, MRS, Jamnagar	Rajasthan, Gujarat, Haryana, Punjab, UP and MP	Medium maturing, medium height, yellow anther colour, compact cylindrical earheads with bristles, resistant to downy mildew, globular grey brown seeds	48	79	2736	65	-	-
86M89 (MH 1747)	M163F x M164R	S. O. 2815 (E)	19.09.2013	-	Pioneer Overseas Corp., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, UP and MP	Late maturing, tall height, conical very compact earheads, yellow anther colour, resistant to downy mildew, obovate deep grey coloured seed	53	84	3648	104	-	-

MPMH 17 (MH 1663)	ICMA 04999 x MIR 525-2	S. O. 952 (E)	10.04.2013	-	AICPMIP, Jodhpur	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Medium maturing, medium height, yellow anther colour, compact lanceolate earheads with bristles, resistant to downy mildew, grey brown seeds	48	79	2835	64	41	34
MP-7872 (MH-1610)	M002A x M004R	S. O. 1708 (E)	26.07.2012	13 of 2015	Metahelix Life Science Ltd., Bangalore	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, medium height, yellow anther colour, spindle earheads, grey coloured globular seed	53	82	3282	91	44	35
MP-7792 (MH-1609)	M001A x M004R	S. O. 1708 (E)	26.07.2012	-	Metahelix Life Science Ltd., Bangalore	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, medium height, yellow anther colour, cylindrical earheads, grey coloured globular seed	52	82	3277	90	43	33
86M66 (MH 1617)	M124F x M118R	S.O. 2326 (E)	10.10.2011	94 of 2015	Pioneer Overseas Corp., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, medium height, conical compact earheads, brownish yellow anthers, broad leaves, purple node colour, grey seed colour, resistant to downy mildew	55	83	3305	95	42	31
RHB-173 (MH-1446)	ICMA 93333 x RIB 192 S/99	S.O. 632 (E)	25.3.2011	-	AICPMIP, SKRAU, Jaipur	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Medium maturity, medium to tall plant height, compact cylindrical ear heads, resistant to downy mildew	49	79	3073	78	42	33

Nandi 65 (MH 1549)	NMS 24A x NMP 75	S.O.2137 (E)	31.8.2010	-	New Nandi Seeds Corporation, Ahmedabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, cylindrical shaped non bristled compact ear heads, yellow anther colour, bold grains resistant to downy mildew	52	81	3303	85	59	43
Nandi 61 (MH 1548)	NMS 24A x NMP 64	S.O.2137 (E)	31.8.2010	-	New Nandi Seeds Corporation, Ahmedabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturing, conical shaped non bristled compact earheads, bright yellow anther colour, bold grains resistant to downy mildew	52	81	3432	86	40	34
HHB 223 (MH 1468)	ICMA 94555 x HBL 11	S.O.211 (E)	29.1.2010	-	AICPMIP, CCS HAU, Hisar	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Medium maturing, conical earheads with long purple bristled , resistant to downy mildew, tolerant to drought	46	77	2695	75	42	37
JKBH 676	JKMS 20A x JKR 6136	S.O.2187 (E)	27.8.2009	35 of 2011	JK Agri genetics Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Late maturity, Medium tall plant height, highly compact earheads, stay green fodder	52	83	3006	81	-	-
B 2095 (MH 1257)	B 0009A x B 5220R	S.O. 449 (E)	11.02.09	-	Zurari Seeds Ltd Bangalore	Rajasthan, Gujarat, New Delhi, UP and MP	Medium maturity, medium tall, compact candle panicles, globular grey grains	51	81	2876	77	-	-

B Zone:

Hybrids	Parentage (A x R)	Notification number	Notification date	Registration No. with PPV& FRA	Bred at	Area of adaptation	Maturity group/duration and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
Phule Mahashakti (DHBH 1211) (MH 2078)	ICMA 99222 A ₁ x DHLBI 1201	S.O. 1498(E)	01/04/2019		ICAR-AICRP – PM, MPKV, Dhule	Maharashtra	Late maturing, medium tall, cylindrical shape earhead, resistant to downy mildew	52	83	2581	53	85	37
NBH 4903 (Balwan) (MH 2035)	NB 105A x NB 98R	S.O 399(E)	24/01/2018	-	Nuziveedu Seeds Ltd, TS	Maharashtra, Karnataka, Andhra Pradesh, Telangana and Tamil Nadu	Late maturing, medium plant height with long exerted compact panicles, medium bold grains, tolerant to major diseases and pests, non lodging, non shattering, resistant to drought	54	85	4444	90	51	37
Mahabeej-1005 (MH 1852)	MBJ-2A x MBJ-1R	S.O. 2805 (E)	25.08.2017	-	MSSCL, Akola	Maharashtra	Medium maturing, yellow anther, complete spike exertion, conical, long and thick panicle, tolerant to stress	49	81	2994	62	62	37
PBH 306 (MH 1962)	PB 501A x PB 89R	S.O. 1007 (E)	30.03.2017	-	Prabhat Agri Biotech Limited, Hyderabad	Maharashtra, Karnataka, Telangana, Andhra Pradesh and Tamil Nadu	Late Maturing, medium plant height, long compact panicles, medium bold grains, resistant to drought, tolerant to major diseases and pests	56	87	3828	78	54	34

86M88 (MH 1816)	M162F x M164R	S. O. 1228 (E)	7.05.2015	-	Pioneer Overseas Corp., Hyderabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Late maturing, purple anther colours, compact conical earheads, grey obovate coloured grains, resistant to downy mildew, smut, rust and blast	54	86	3990	72	41	38
NBH 5767 (MH 1785)	NB 345A x NB 97R	S. O. 268 (E)	28.01.2015	-	Nuziveedu Seeds Pvt. Ltd., Hyderabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Medium maturing, purple anther colours, medium plant height, compact lanceolate earheads, deep grey coloured grains	50	83	3356	60	42	42
NBH 5061 (MH 1812)	NB 66A x NB 98R	S. O. 1919 (E)	30.07.2014	-	Nuziveedu Seeds Pvt. Ltd., Hyderabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Late maturing, purple anther colors, medium plant height, compact lanceolate earheads, grey coloured grains	57	89	3924	80	40	40
Pratap (MH 1642)	NB 101A x NB 152R	S. O. 2125 (E)	10.09.2012	-	Nuziveedu Seeds Pvt. Ltd., Hyderabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Medium maturity, medium plant height, cylindrical semi compact earheads, globular grey seed.	51	84	2934	62	49	45
PKV-Raj (BBH 3)	BMS-5- 23A x BR- 333	S. O. 2125 (E)	10.09.2012	-	Dr. PDKV, ARS, Buldana	Maharashtra	Medium maturing, Medium height, conical compact bristled earheads, grey coloured seed	49	84	2824	50	-	-
CO 9	ICMA 93111 x PT 6029- 30	S. O. 1708 (E)	26.07.2012	-	AICPMIP, TNAU, Coimbatore	Tamil Nadu	Medium maturing, medium height, Candle compact earheads, greyish yellow seed colour	48	78	2707	60	-	-

Shine (VBBH 3040) (MH 1578)	VBBA 310089 x VBBR 330585	S. O. 456 (E)	16.03.2012	45 of 2014	Vibha Agrotech Ltd., Hyderabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Medium maturing, medium height, red node pigmentation, yellow anther colour, compact spindle shaped earheads resistant to downy mildew, grey bold seeds	49	82	3274	69	-	-
PAC 909 (MH 1435)	110057 x 130453	S.O. 2326 (E)	10.10.2011	-	Advanta India Ltd., Secundrabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Medium maturing, medium height, medium thick compact cylindrical earheads, light yellow coloured anthers, grey seed colour, resistant to downy mildew	50	84	3487	63	-	-
86M64 (MH 1540)	M096F x M 117R	S.O. 283 (E)	7.2.2011	11 of 2012	Pioneer Overseas Corp., Hyderabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Late maturing, conical compact earheads, obovate light grey seeds, resistant to downy mildew	52	85	3152	63	46	43
86M53 (MH 1541)	M096F x M 119R	S.O. 283 (E)	7.2.2011	-	Pioneer Overseas Corp.	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Late maturing, conical compact earheads, obovate grey bold seeds, resistant to downy mildew	53	86	3403	72	41	43
RHRBH 9808	RHRB 13A x RHRBI 1314	S.O.2137 (E)	31.8.2010	243 of 2015	AICPMIP MPKV, Dhule	Maharashtra	Medium maturing, medium tall plant height, dark green leaves, cylindrical earheads, yellow anthers	50	80	3013	52	-	-
GK 1051	PM 678A- II x PM 1081 R-I	S.O. 454 (E)	11.02.09	-	Ganga Kaveri Hyderabad	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Medium maturity, medium tall, cylindrical shaped earheads with pearly grey grain	54	87	3457	63	-	-

Biofortified:

Hybrids	Parentage (A x R)	Notification number	Notification date	Registration No. with PPV& FRA	Bred at	Area of adaptation	Maturity group/duration and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
RHB 234 (MH 2174)	ICMA 02333 x RIB 15177	S.O 3220(E)	06/09/2019	-	AICRP on PM, SKNAU, Jaipur	Rajasthan, Haryana, Gujarat, Punjab, Delhi Maharashtra, and Tamil Nadu	Medium maturing, brown anther colour, complete excretion, greyish seed, resistant to major diseases & insect pest,	49	81	3169	71	84	41
RHB 233 (MH 2173)	ICMA 99444 x RIB 15176	S.O 3220(E)	06/09/2019	-	AICRP on PM, SKNAU, Jaipur	Rajasthan, Haryana, Gujarat, Punjab, Delhi Maharashtra, and Tamil Nadu	Medium maturing, yellow anther colour, complete excretion, greyish seed, resistant to major diseases & insect pest,	49	80	3157	74	83	46
AHB 1269Fe (MH 2185) (AHB 1269)	ICMA 98222 A1 x AUBI 1105	S.O. 1498(E)	01/04/2019	-	NARP, Aurangabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, Maharashtra, and Tamil Nadu	Medium maturing, high Fe content	50	82	3168	74	91	43
HHB 299 (MH 2076)	ICMA 04888 x H 13/0001	S.O 1379(E)	27/03/2018	-	CCS HAU, Jodhpur	Rajasthan, Haryana, Gujarat, Punjab, Delhi Maharashtra, and Tamil Nadu	Medium maturing, purple anther color, Lanceolate shaped compact panicle, greyish hexagonal shape grains, resistant to major diseases and insect pests	50	81	3274	73	73	41

AHB 1200 Fe (MH 2072 (AHB 1200))	ICMA 98222 x AUBI 1101	S.O 1379(E)	27/03/2018	-	NARP, Aurangabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, Maharashtra, Telangana, Andhra Pradesh and Tamil Nadu	Medium maturing, high Fe content, long cylindrical panicle, resistant to downy mildew, resistant to stem borer, highly responsive to fertilizers	47	78	3170	70	77	39
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A & B Zone:

Hybrids	Parentage (A x R)	Notification number	Notification date	Registration No. with PPV& FRA	Bred at	Area of adaptation	Maturity group/duration and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
86M01 (MH 1790)	M096F x M149R	S. O. 1228 (E)	7.05.2015	204 of 2015	Pioneer Overseas Corp., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP MP, Maharashtra, Karnataka, Andhra Pradesh and Tamil Nadu	Medium maturing, purple anther colours, compact conical earheads with bristles, grey obovate coloured grains, , resistant to downy mildew and smut	50	82	3509	73	48	43
Kaveri Super Boss (MH 1553)	KBMS 329 x KBR 621	S. O. 2125 (E)	10.09.2012	-	Kaveri Seed Co. Ltd., Secundrabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Late maturing, tall height, long compact cylindrical earheads, purple anther colour, globular grey coloured seed	55	85	3383	83	46	40

Bio 448 (MH 1671)	13A x R 210	S. O. 2125 (E)	10.09.2012	10 of 2014	Bioseed Research India Pvt. Ltd., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Late maturing, cylindrical compact earheads, yellow anther colour, globular grey seed and tolerant to downy mildew	52	85	3236	81	-	-
86M86 (MH 1684)	M128F x M138R	S. O. 1708 (E)	26.07.2012	105 of 2015	Pioneer Overseas Corp., Hyderabad	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Late maturing, Medium to tall plant height, conical very compact earheads, purple anther colour, grey hexagonal seeds	54	86	3405	87	53	45

Summer:

Hybrids	Parentage (A x R)	Notification number	Notification date	Registration No. with PPV& FRA	Bred at	Area of adaptation	Maturity group/duration and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
Nandi-75 (NMH 82) (MSH 287)	NMS 24A x NMP 95	S. O. 3540 (E)	24.11.2016	-	New Nandi Seeds Corporation, Ahmedabad	Summer growing areas of Gujarat, Rajasthan, UP Maharashtra and Tamil Nadu	Late maturing, tall plant height, purple anther colour, compact cylindrical earheads, grey coloured globular grains, resistant to downy mildew and rust	55	86	4934	88	-	-
86M13 (MSH 276)	M096F x M174R	S. O. 3540 (E)	24.11.2016	-	Pioneer Overseas Corp., Hyderabad	Summer growing areas of Gujarat, Rajasthan, UP Maharashtra and Tamil Nadu	Late maturing, yellow coloured anthers, very compact spindle earheads, grey coloured obovate seeds, resistant to downy mildew	58	88	5497	104	-	-
JKBH 1105 (MSH 254)	JKMS 1331A x JKR 11568	S. O. 3540 (E)	24.11.2016	-	JK Agri Genetics Hyderabad	Summer growing areas of Uttar Pradesh	Late maturing, yellow coloured anthers, very compact cylindrical non-bristled earheads, globular grey brown grains, resistant to downy mildew, rust & smut diseases	65	88	2441	112	-	-

Nandi-72 (MSH-238) (NMH 75)	NMS 31A x NMP 75	S. O. 2815 (E)	19.09.2013	-	New Nandi Seeds Corporation, Ahmedabad	Summer growing areas of Gujarat Maharashtra, Rajasthan and Tamil Nadu	Medium tall plant height, purple coloured anthers lanceolate thick compact earheads, resistant to downy mildew, globular deep grey seed.	57	89	5274	102	-	-
Nandi-70 (MSH 224)	NMS 31A x NMP 55	S. O. 2125 (E)	10.09.2012	-	New Nandi Seeds Corporation, Ahmedabad	Summer growing areas of Gujarat Maharashtra, Rajasthan and Tamil Nadu	Medium plant height, cylindrical thick compact earheads, globular deep grey seed.	58	89	5445	96	-	-
86M64 (MSH 203)	M096F x M 117R	S.O. 283 (E)	7.2.2011	11 of 2012	Pioneer Overseas Corp., Hyderabad	Summer growing areas of Gujarat Maharashtra, Rajasthan and Tamil Nadu	Late maturing, conical compact earheads, obovate light grey bold seeds, resistant to downy mildew	55	89	5244	88	-	-
Nandi 64 (MSH 199)	NMS 2- 11A x NMP 4-1	S.O.211 (E)	29.1.2010	-	New Nandi Seeds Corporation, Ahmedabad	Summer growing areas of Gujarat Maharashtra, Rajasthan and Tamil Nadu	Late maturity, conical shaped earheads, light purple anther colour, light reddish plant base, resistant to downy mildew	56	88	4592	88	-	-

Table 2: Notification details, adaptation niches, maturity group/duration and major salient features of pearl millet open-pollinated varieties developed in India since 2009

A₁ Zone:

Variety	Notification number	Notification date	Registration No. with PPV & FRA	Bred at	Area of adaptation	Maturity group and salient features	DF	D M	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
Mandor Bajra Composite 2 (MBC 2) (MP 489)	S.O. 2326 (E)	10.10.2011	-	SKRAU, A.R.S Mandor, Jodhpur	Rajasthan, Harayana, Gujarat	Early maturing, medium height, medium long semi compact cylindrical earheads, obvate grey coloured seed	48	77	1478	42	-	-
Pusa Composite 443 (MP 443)	S.O. 449 (E)	11.02.09	99 of 2011	AICPMIP IARI, New Delhi	Rajasthan, Harayana, Gujarat	Early maturity, medium tall, rod shaped earheads with bold grain	48	76	1691	45	-	-

A Zone:

Variety	Notification number	Notification date	Registration No. with PPV & FRA	Bred at	Area of adaptation	Maturity group and salient features	DF	D M	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
MP 535 (Pusa Composite 701)	S. O. 3540 (E)	24.11.2016	-	IARI, New Delhi	Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP and MP	Medium maturing, medium height, yellow anther colour, cylindrical compact earheads, globular grey brown grains, resistant to downy mildew	50	80	2313	71	48	41

B Zone:

Variety	Notification number	Notification date	Registration No. with PPV & FRA	Bred at	Area of adaptation	Maturity group and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
ABV 04 (MP 552)	S.O. 1498(E)	01/04/2019	-	ANGRAU, Ananthapuramu	Maharashtra, Karnataka, Andhra Pradesh, Telangana and Tamil Nadu	Late maturing, panicles thick and compact with grey coloured bold size, highly resistant to downy mildew, smut and blast, resistant to major insect pests	52	86	2863	58	-	-
Pearl Millet CO 10 (MP 522) (UCC 32)	S. O. 2238 (E)	29.06.2016	-	AICRP-Peal Millet, TNAU, Coimbatore	Tamil Nadu	Medium maturing, compact spindle shape ear head, grey brown bold seed, resistant to downy mildew	43	87	3767	57	-	-
ABPC-4-3 (MP 484)	S. O. 2125 (E)	10.09.2012	-	AICPMIP, Aurangabad	Maharashtra	Late maturing, medium plant height, lanceolate earheads, globular grey seeds	51	85	2700	56	-	-
Pusa Composite 612 (MP 480)	S.O. 632 (E)	25.03.11	-	AICPMIP IARI, New Delhi	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu	Medium maturity, medium to tall plant height, compact cylindrical earheads	49	84	2602	51	-	-

A & B Zone/Biofortified:

Variety	Notification number	Notification date	Registration No. with PPV & FRA	Bred at	Area of adaptation	Maturity group and salient features	DF	DM	GY (kg/h)	FY (q/h)	Fe (ppm)	Zn (ppm)
Dhanshakti (ICTP 8203 Fe 10-2)	S. O. 1146 (E)	24.04.2014	-	MPKV, Dhule	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu, Rajasthan, Haryana, MP, Gujarat, UP, Punjab	Early maturing variety containing high iron(76-91ppm) and zinc (39-48ppm), bold, globular, shining slate grey coloured seed, cylindrical – lanceolate earhead, resistant to downy mildew	45	76	2199	53	81	43