

26.2 Varieties and Hybrids in Rapeseed and Mustard

Black Mustard (*Brassica nigra*)

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Surya (LBM-428)	Selection from local germplasm	2002		82-88	1000-1200		40-41	Andhra Pradesh

Brown Sarson (*B. rapa* ssp. *Brown sarson*)

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
B-65				600-800			40	West Bengal
BS-2		1966		115	1200-1500 (R)	Tolerant to drought	45	Uttar Pradesh
BS-70		1966			1200-1500 (I)		45	Uttar Pradesh
BSH-1	Selection from mewar local	1975	440 21-8-1975; 786 2-2-1976	130	1,200-1,500 (I)	Long and bold siliqua	44	Haryana, Rajasthan, Parts of UP and HP
GS-1	PS 66 X YS 31	1993		2180				Gujarat
Gulechin (KOD-100)		1996	1(E) 1-1-1996	1000 (RF)- 1888(IR)			38-40	Kashmir
Gulechin (KS-101)	Selection from EC 132141	1996	1(E) 1-1-1996	230-235	1001 (R)	Resistant to snow and frost		Kashmir and HP
KBS-3	Pusa Kalyani x Yukina	1996	92(E) 2-2-2001		1500-1800	Resistant to white rust and tolerant to cold	44	Himachal Pradesh
Suphala (DS17M)				135-140	1200-1800	Early maturing and bold seeded	42	

Gobi Sarson

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
DGS 1		2007	-		1282-2062	Suitable for sub-tropical areas of Jammu Division	40-44	Jammu & Kashmir
GLS-1	Selection from local material	1985		160				
GSC 101		2013	2013		1793-2190	Double low (low erucic acid and low glucosinolate content)	38.6-42.0	Delhi, Haryana, Jammu & Kashmir, Himachal Pradesh, Punjab and northern Rajasthan
GSC-5	Hyola 401 x (Agat x GSL 8888)	2003		141-168	1719-2390	Low erucic (< 2%) and low glucosinolate (26-41 micromoles/g defatted seed meal)	37-43	Punjab
GSL-2		1996			1900-2000		45	Punjab, Rajasthan, Haryana
Him Sarson-1 (ONK-1)		2007/2008	2009	160	1362	Resistance to white rust, Tolerant to downy mildew and aphids	40.3	J&K, Himachal Pradesh, Uttarakhand
HPN-1 (Sheetal)	Selection from an exotic line FC 129127	1994		175-180	1300-1500	Suitable for intercropping with Toria	42	Himachal Pradesh

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Hyola-401 (Hybrid)		2000 / 1996	2001/1997		1200-1640	Double low (low erucic acid, 0.8 % and low glucosinolate content, 15 micromoles/g defatted seed meal)	42	Haryana, Himachal Pradesh and Punjab
Neelam (HPN3)		1998				Suitable for late sown conditions		Himachal Pradesh
NUDB-26-11		2007	2008		984-1339	Low erucic and low glucosinolate content, suitable for irrigated conditions.	38-42	Himachal Pradesh, Jammu & Kashmir
PGSH-51		1996			1950		44	Punjab, Rajasthan, Haryana
TERI (OE) R-03 (TERI Unnat)		2001		128-138	800-1450	Low erucic acid (< 2%) and high oleic acid (59.5%)	40-44	Madhya Pradesh, Rajasthan and Uttar Pradesh
TERI -Ultam-Jawahar ** [TERI (00) R 9903]	TERI(OE) R03:INGR 98002 x <i>B. napus</i> . Var. Cyclone	2004		130-135	1619-2685	Low erucic acid (< 2%) and low glucosinolate (12.2 micromoles/g defatted seed meal)	43-45	Madhya Pradesh
TH-63(Suman)		1985			1555		46	North Western Zone
TMH-52(Tara52)					812		37	Haryana
YSB-19-7-C		1986			1400		46	WB

Karan rai (Brassica carinata)

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
African Sarson (PC 5)	Cross, Karak x S67	1996	1(E) 1-1-1996					Punjab
JTC-1*	Mutant from HC1	2001		161-171	1420	Suitable for rainfed conditions	36-41	Delhi, Haryana, Himachal Pradesh and Punjab
Kiran (PBC 9221)	Selection from HC5	1998	401(E) 15-5-1998	170-175	2200-2500	For both rainfed and irrigated areas	40	Rainfed and low fertility areas of Delhi, Haryana and Punjab
PC 5-1 7*	Selection from PC 5	2001		154-192	1515-1725	Suitable for both rainfed and irrigated conditions	33-39	Delhi, Himachal Pradesh and Punjab
Pusa Gaurav (DLSC-1)*	<i>B. carinata</i> x Synthetic amphidiploid (<i>B. nigra</i> x <i>B. oleracea</i>)	1995		170	1717-1950	Suitable for both rainfed and irrigated areas	40	Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab and Rajasthan
Pusa Aditya (NPC-9)	Carinata early mutant x HC-2	2006	1572(E) 20-9-2006	160-173	1400	Highly resistant to white rust, immune to downy mildew and tolerant to <i>Alternaria</i> blight, powdery mildew and <i>Sclerotinia</i>	38-41	All India
Pusa Swarnim (IGC-01)	HC4 x Early Mutant	2002		157-185	1567	Suitable for irrigated and rainfed conditions.	42-43	Delhi, Haryana, Himachal Pradesh and Punjab,

Indian Mustard (Brassica juncea)

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
44 S 01		2012			1109-1429	Early maturity rainfed conditions	36.9-42.7	West Bengal, Bihar, Odisha and NEH region
ACN Shatabdi (ACN-9)		2005	2006		800-1000	Suitable for timely sown and late sown condition	36-40	Maharashtra
Agrani (SEJ2)	Early B. juncea x Sythetic amphiploid (B. campestris var. toria x B. nigra)	1997	401(E) 15-5-1998; 283(E) 12-3-2003	95	1700	Early maturing		Punjab, Haryana, Delhi
Ahriwad (RK-01-3)	Krishna x Vardan	2004	1566(E) 5-11-2005	130-135	1534	Moderately resistant to Alternaria blight and tolerant to white rust	39	UP, Uttaranchal, Madhya Pradesh, Part of Bihar and part of Rajasthan
Albeli-1		2014	-		1880-2260	Suitable for irrigated conditions	40-41	Uttar Pradesh, Madhya Pradesh, Eastern Rajasthan and Uttarakhnad
Aravali Mustard		1998	2001		1265	Suitable for rainfed conditions	42	Haryana, Punjab and Rajasthan
Ashirwad (RK-01-03)		2004	2005		1450-2358	Moderately resistant at leaf and pod stage for Alternaria blight and resistant for White rust. Suitable for irrigated late sown conditions	31- 41	Madhya Pradesh, Rajasthan, Uttar Pradesh, and Uttaranchal
Basanti (RK 8501)	Varuna x RK 1	2001	1134(E) 5-11-2001	130	1488	Yellow seeded, white rust resistant and Alternaria blight tolerant	41	Uttar Pradesh
Bhagirathi (RW-315)	Varuna x Appressed mutant	1987	834(E) 18-9-1987	120-125	1200(R)	Suitable for mixed cropping and high dose Nitrogen		West Bengal, Orissa

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Bhawani (TK840)		1985		80	1200-1350(l)	Tolerance to aphids	43	Uttar Pradesh
BR - 40	Selection from local material	1960			1200-1400 (R+l)		40	Bihar
Coral 437	(PAC 437A X PAC 437R)	2011	1708(E) 26/07/2012		1831-2581	Hybrid, WRE resistant	39.2-41.2	Delhi, Haryana, Punjab, J&K and Rajasthan
Coral PAC 432 (Hybrid)			2010		1831-2581	Hybrid	40-42	Uttar Pradesh, Uttarakhnad and Rajasthan
CoralPAC 432(Hybrid)	PAC 432A x PAC 432 R	2009	S.O. 733(E) 01/04/2010	120 to 130	1831-2581	Hybrid	40-42	Uttar Pradesh, Uttarakhnad and Rajasthan
CS 56 (CS-234-2)		2007	2008		1170-1423	Suitable for late sown conditions, salt tolerant, 1000 seed weight more than 6 g.	34.2-38.0	Haryana, Punjab and parts of Rajasthan
CS-52 (DIRA-343)	Selection from DIRA 343	1998	401(E) 15-5-1998	135-145	1120	For sodic and saline soils	41	Uttar Pradesh, Haryana, Rajasthan
CS-54 (CS 614-4-1-4)*	R 8603 Bold B380	2005	122(E) 2-2-2005	109-147	1932	Tolerant to aphids and tolerant to salinity alkalinity	39-41	Haryana, MP, Rajasthan, UP and Gujarat
Dhara Mustard Hybrid-1 (DMH-1)	5247A x 2332 R	2009	11/02/2009	142-152	2053	Resistant to white rust. Tolerant to Downy mildew	38	Punjab, Haryana, Delhi, J&K, Rajasthan
DIRA-367 (Pusa Basant)	(PR 45 x RH 30) x 367-1	1989			1170		42	WB, Bihar, Orissa
Divya-33		2012	2817(E) 19-19-2013	148	1699-3560	Tolerant to high temperature	36.0-40.7	Delhi, Haryana, Jammu & Kashmir, Punjab and parts of Rajasthan

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
DRMRU31		2013	2013		2246-2757	High seed yield & bold seed size	38.7-42.5	Delhi, Haryana, Punjab, Jammu and Rajasthan
Durgamani	Selection from Sriganaganagar material	1974	566(E) 21-9-1974	135-140	1000-1200 (R+)	Resistant to Orobanchae	39	Rajasthan
ELM-079	QM4 x Pusa Bold	2007			1600-2000	Tolerant to Alternaria Blight and resistance to white rust, Sclerotinia stem rot		Punjab
Geeta (RB 9901) (RB24)	Spontaneous mutant of RH-30	2002	283(E) 12-3-2003	145-149	1173	Moderately resistant to white rust	41	Haryana, Punjab, Rajasthan
Gujarat Mustard-1 (GM1, RSK10)	MR71-3-2 x TM4	1990	639(E) 17-8-1990	105	1500-2000	Early maturing		Gujarat
Gujarat Mustard-2 (GM2, SKM 92-66)	Selection from Vedancha material	1997	360(E) 1-5-1997	115	2200-2400	Bold seeded and resistant to Powdery Mildew	40	Gujarat
Jawahar Mustard-2 (JMWR-941-1-2)	Varuna x L4	2004	1566(E) 5-11-2005	135-138	1717-2150	White rust resistant variety	39-42	Madhya Pradesh
Jawahar Mustard-3 (JMM-915)	Varuna x YRT 3	2004	1566(E) 5-11-2005	130-132	1500-2600	Tolerant to Alternaria blight and mustard aphid	40	Madhya Pradesh
Jawahar-1 (JMWR-93-39)	Pusa Bold x L6	1999	425(E) 18-6-1999	125-127	2000-2100	White rust resistant	41	Madhya Pradesh
JD-6 (Pusa Mahak)		2003	1177(E) 25-8-2005	81-114	1600-1700	An early maturing for rainfed areas	39-44	Orissa, WB, Bihar, Jharkhand, Chhattisgarh and Assam
JM 2		2004	2005		1717-2150	White rust resistant variety	39-42	Madhya Pradesh
JM-3		2004	2005		1500-2500	Tolerant to Alternaria blight	40.0	Madhya Pradesh

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Kanti (RK 9807)	Selection from Kanpur Germplasm	2002	283(E) 12-3-2003	100-105	2000-2200	Suitable for multiple cropping, early sowing (mid September)	40-43	Uttar Pradesh
Karishma (PR 8988)*	PR8611 x Varuna	1995		124-149	1800-2000	Moderately resistant to Alternaria blight, downy mildew and white rust, suitable for irrigated areas	39	North Zone of India
Latha 101	Selection from Eiawah material	1978		150	1500 (l)	Suitable for mixed cropping	41	Uttar Pradesh
Laxmi (RH-8812)	Derivative cross Pant rai 15 x RH 30A	1997	360(E) 1-5-1997	145	2200-2500	Bold and black seeded	40	Haryana
LES 43		2013	2013		1564-2238	Low erucic acid content	36-39.4	UP, UK, MP, Eastern Rajasthan
LET-36		2013			1927-2568	Low erucic acid content	30-39.8	Delhi, Haryana, Punjab, Jammu and Rajasthan
LET-43		2013			1564-2238	Low erucic acid content	36-39.4	UP, Uttarakhand, MP and Eastern Rajasthan
Mahon-8 (Shivalik)*	RLM819 x Varuna	2002		124-135	1442	Suitable for late sown conditions	38-39	Delhi, Haryana, Punjab and Rajasthan
Maya (RK 9902)	Varuna x KRV 11	2002	283(E) 12-3-2003	130-135	2500-2900	Suitable for irrigated conditions resistant to white rust	39-40	Madhya Pradesh and Uttar Pradesh

Variety / Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Mustard Karishma		1995	-		1800-2000	Moderately resistant to Alternaria blight, downy mildew and white rust. Suitable for irrigated areas.	39	Haryana, Punjab, Rajasthan, Uttar Pradesh
Narendra Ageti Rai – 4		1999	2001		1500-2000	Suitable for early sowing, white rust and downy mildew tolerant	40	Uttar Pradesh
Narendra Swama Rai 8	(T-6342 x Varuna) x (TM-9 x RW-75-123-2)	2004	1177(E) 25-8-2005	130-135	1234-2357	Moderately tolerant to white rust, Alternaria blight and saw fly	36-46	Uttar Pradesh
Nav Gold (YRN-6)	Bio-902 x BM-185-11	2006	1572(E) 20-9-2006	122-134	1418	Moderately tolerant to white rust, Alternaria blight and Sclerotinia stem rot	38	Rajasthan, Haryana, Punjab, Delhi, J&K
NDRE 4 (Narendra Ageti Rai)	TM9 x Seeta	2001	1134(E) 5-11-2001	90-110	1500-2000	Suitable for early sowing, white rust and downy mildew tolerant	40	Uttar Pradesh
NRC HB 101		2008	2009		1382-1491	Suitable for late sown irrigated conditions	35- 42	Madhya Pradesh, Uttar Pradesh, Uttarakhand and Eastern Rajasthan
NRCDR-02	MDOC 43 x NBPGR 36	2006		131-156	2200	Tolerant to white rust, Sclerotinia stem rot, Alternaria, Downey mildew	39	Rajasthan, Haryana, Punjab, Delhi
NRCDR601 (DMR 601)	NBPGR 272 x RK 9903	2009	S.O. 733(E)		1939-2626	Tolerant to salinity and high temperature at sowing time	39-42	Delhi, Haryana, Punjab, J&K and Rajasthan
NRCHB 101	BL 4 x Pusa Bold	2008		135	1438		35-42	Rajasthan, Madhya Pradesh and Uttar Pradesh

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
NRCHB 506(Hybrid)	MJA 05 x MJR 1	2008	454(E)	148	2239		39-43	Rajasthan, Uttar Pradesh
Patna Mustard – 67	Selection from local material	1984	596(E) 3-8-1984	119	1600-1900(l)	Susceptible to Aphids and powdery mildew	38	Gujarat
PBR 210	RLM 619 x EH 8812	2003	122(E) 6-2-2007	150	1580	Resistant to Alternaria blight and white rust		Punjab
PBR-357		2011	2011		1373-3819	Timely sown irrigated conditions	35.8-41.5	Delhi, Haryana, Punjab, Jammu and Rajasthan
PBR-378			2012		1228-3484	Timely sown rainfed conditions	37.7-41.9	Delhi, Haryana, Punjab, Jammu and Rajasthan
PBR-91	(RLM 511 x PR18) x CM1	1996	1(E) 1-1-1996	Early	1600-1800		40	Punjab
PBR-97	(DIR 202 x PR34) x (RLM 619 x Varuna)	1997	662(E) 17-9-1997	136	1900-2200	For rainfed areas	42	Punjab
PCR-7 (Rajat)	Selection from JMG 36-6	1997	647(E) 9-9-1997	115	1900	Resistant to lodging and shattering	39	Gujarat, Maharashtra, Rajasthan, Haryana
PM 29			2013					Delhi, Haryana, J&K, Punjab and Rajasthan
PM 30			2013					UP, Uttarkhand, MP and Rajasthan
PR 20061(Pant rai19)		2011	2012		1831-2511	Tolerant to high temperature at early stage	40.9-41.8	Delhi, Haryana, Punjab, Jammu and Rajasthan
PR-15		1981			1800-2000(l)			Maharashtra

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Prakash	RL18xT9	1976	786 2-2-1976	150-155	1500-2000 (R+)		39	Haryana
Pusa Agrani (Sej 2)		2000 / 1997	1998		1718	Early maturing	40	Haryana, Punjab and Rajasthan, East and North East states
Pusa Bahar (DIR-247)	(Pusa Rai 28 x Varuna) x (Pusa Rai 30 x T6342)	1991	527(E) 16-8-1991		1000		43	West Bengal, Bihar, Assam and Orissa
Pusa Bold (PR 45)	Varuna x BIC 1780	1985	295(E) 9-4-1985	140	1800-2600(l)		42	Delhi and Eastern India (Bihar, Orissa, West Bengal)
Pusa Jai Kisan (BIO-902)	Selection from Varuna	1994	636(E) 2-9-1994		1900-2500	Resistant to lodging and shattering	40	Gujarat, Rajasthan and Maharashtra
Pusa Karishma (LES-39)	Pusa Barani x Zem 1	2004	1566(E) 5-11-2005		2000-2200		38-40	Delhi
Pusa Karishma** (LES 39)		2004		137-161	1731-2506	Low erucic acid (< 2%)	37-38	Delhi
Pusa Kranti (P26/21)	Cream Rai5 x RaiB					Tolerant to Alternaria blight and white rust		
Pusa Mustard 21(LES-1-27))		2007		75-80	1000-1100			J&K, Punjab, Haryana, Rajasthan, Delhi and Western Uttar Pradesh
Pusa Mustard 24 (LET-18))	(Pusa Bold x LEB-15) x LES 29	2009		134-150	2025	Resistant lodging and shattering. Moderately resistant to white rust, Alternaria blight, Downey Mildew, Powdery mildew	32-39	Punjab, Haryana, Rajasthan, Delhi and Western Uttar Pradesh

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Pusa Mustard 25 (NPJ-112)	SEJ-8 x Pusa Jagannath	2009	2009	107	1469	Tolerant to lodging and shattering	39.6	J&J, Punjab, Haryana,Rajasthan, Delhi and Western Uttar Pradesh
Pusa Mustard 28 (NPJ-124)	JEJ-8 X PUSA JAGANNATH	2011	S.O.456(E) 16/03/2012	107 to 107	1993	Tolerant to lodging and shattering . show lower incidence of rust , sclerotia, stem rot , powdery mildewand aphids	40.0-42.8	Delhi, Haryana, Punjab, Uttar pradesh
Pusa Mustard 29		2012	2012		1467-3005	Low erucic acid, Timely sown irrigated condition	30.0-39.8	Delhi, Haryana, Jammu & Kashmir, Punjab and Rajasthan
Pusa Mustard 30		2012	2012		1290-3778	Low erucic acid, Timely sown irrigated condition	36.0-39.4	Uttar Pradesh, Uttarakhnad, Madhya Pradesh and Rajasthan
PusaMustard 26(NPJ 113)			2011		1481-1895	Suitable for late sown irrigatedconditions in Rabi season	30-41	J&K, Punjab, Haryana,Rajasthan, Delhi and UP
PusaMustard 27(EJ 17)			2011		1437-1659	Suitable for early sown irrigatedconditions and for multiple cropping	40-45	UP, MP, Uttarakhnad andRajasthan
Raj VijayMustard-2(JMWVR08-3)			2013		1276-1874	Moderately resistant to white rust	37.1-41.2	Delhi, Haryana,Punjab, Jammuand Rajasthan
Rajendra Anukool		2004	-		1275	Suitable for late to very late sown conditions	40-41	Bihar
Rajendra Rai Pichheti		2003	-		547-1400	Suitable for late conditions after paddy harvest	37-40	Bihar

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
RB 50		2008	2009		846-2425	Suitable for rainfed conditions	39- 40	Delhi ,Haryana,Punjab, Jammu & Kashmir, Rajasthan
RCC 4	Selection from multiple crosses involving nine cultivars	1996	92(E) 2-2-2001	155-160	1044	Compact plant type		Himachal Pradesh
RGB 298		2014	-		2062-2245	Tolerant to terminal heat and suitable for rainfed conditions	37.1-41.5	Rajasthan, Punjab, Haryana, Delhi, Jammu and Western UP
RGN 13	RH 30 x Varuna	2002	283(E) 12-3-2003	135-163	2200	Suitable for normal sown irrigated conditions	41-43	Rajasthan
RGN 145		2008	2009		1448-1640	Suitable for late sown irrigated conditions	35- 39	Delhi ,Haryana,Punjab, Jammu & Kashmir, Rajasthan
RGN 229			2011		2162-2568	Tolerant to high temperature and salinity during seedling stage	37.8-42.1	Delhi, Haryana,Punjab, J&K andRajasthan
RGN 236			2011		1485-1808	Tolerant to high temperature and salinity during seedling stage	36.3-40.8	Delhi, Haryana,Punjab, J&K andRajasthan
RGN-145	Varuna x Tobin	2009		134	1534	Tolerant o white rust,, Alternaria Leaf Spot, Pod blight, Powdery and downy mildew	35-39	Rajasthan, J&K, Haryana, Punjab, Delhi, Uttar Pradesh
RGN-48	RSM-204 x B-75	2006	599(E) 25-4-2006	138-157	1600-1700	Tolerant o white rust, Sclerotinia stem rot and downy mildew	41	Haryana, Punjab and Rajasthan

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RGN-73	RGN-8 x Pusa Bold	2007	122(E) 6.2.2007	120-125	2000	Tolerant o white rust, Sclerotinia stem rot Alternaria Leaf Spot, Pod blight, Powdery and downy mildew	33-44	Uttar Pradesh, Uttaranchal, Madhya Pradesh, Rajasthan
RH 0119			2012		1047-2156	Thermo-tolerant	38.5-39.8	Haryana
RH 0406			2013		2200-2300	Bold seeded lodging resistant	38-40	Delhi, Haryana, Punjab, Jammu and Rajasthan
RH 0406		2011	2817(E) 19-19-2013					Haryana, Punjab, Delhi and Rajasthan
RH 0406		2011	2011		2200-2300	Bold seeded, lodging resistant	38.0-40.0	Delhi, Haryana, Jammu & Kashmir, Punjab and parts of Rajasthan
RH 0749			2013		2400-2800	Timely sown irrigated condition	39-39.5	Delhi, Haryana, Punjab, J&K and Rajasthan
RH 0749		2012	2012		2400-2800	Timely sown irrigated condition	39.0-39.5	Delhi, Haryana, Jammu & Kashmir, Punjab and parts of Rajasthan
RH 7361	Rai 62 x Bharatpur 10	1984				Tolerant to Frost		Haryana
RH 785	(Prakash x T59) x T59	1983						Assam, Bihar, Orissa and West Bengal
RH-30	Selection from P26/3-1	1985	295(E) 9-4-1985	130-135	1600-2200 (R+)	Non-shattering suitable for mixed cropping late sowing	40	Haryana

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RH-781	(RL18 x P26/3-1) x RL 18	1991	527(E) 16-8-1991	140	2000-2250		40	Haryana
RH-8113 (Saurabh)	T59 x RC 781	1987	165(E) 6-3-1987		1400-1800	Moderately resistant to Alternaria blight	42	Haryana, J&K, HP, Punjab, Rajasthan, Delhi and Gujarat
RH-819	Parakash x Bulk pollen	1991	527(E) 16-8-1991	148	1750-2000		40	Rainfed areas of Haryana state
RH-8812 (Laxmi)	PR 15 x RH 30 A	1997	360(E) 1-5-1997		2250-2500	Bold and black seeded	40	Haryana
RK-01-03*		2004		125-135	1450-2358	Moderately resistant at leaf and pod stage for Alternaria blight and resistant for White rust. Suitable for irrigated late sown conditions	31-41	Madhya Pradesh, Rajasthan, Uttar Pradesh and Uttaranchal
RL-1359	RLM 514 x Varuna	1988	1135(E) 1-12-1988		1752		43	North Western Zone
RL-18	Pure line selection	1976	56621-9-1974; 440 21-8-1975; 786 2-2-1976	140-145	1250 (R)		38	Punjab
RL-99-27*		2004		144-153	1130-2696	Suitable for rainfed conditions	39-41	Haryana, Punjab and Rajasthan
RLC-2(ELM 123)			2012		2039-2342	Superior oil quality	36.3-38.9	Delhi, Haryana, Punjab, Jammu and Rajasthan
RLM 185	Gamma ray induced mutant of RL18	1983				Tolerant to drought		Madhya Pradesh and Uttar Pradesh

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
RLM-198	Gamma ray induced mutant of RL18	1977	3161 29-9-1977	152-166	2000	Fertilizer responsive, moderately resistant to aphids	38	All India
RLM-514	Gamma ray induced mutant of RL18	1984	596(E) 13-8-1984	152	1500-2000 (R+)	Moderately resistant to aphids and shattering	40	Punjab
RLM-619	Gamma ray induced mutant of RL18	1985	832(E) 18-11-1985	140	1500 -1600 (R+)	Moderately resistant to downy mildew , white rust and aphids	43	Punjab
RN-393 (Aravali)	Krishna x RS 50	1998	1134(E) 15-11-2001	136	1450	Suitable for rainfed conditions	41	Rajasthan
RRN 573			2013					Rajasthan
RRN-505 (RN-505)	Pusa Bhushan x ABRNT-1	2006	599(E) 25-4-2006	121-127	1200-1400	Tolerant to Sclerotinia stem rot	40	Rajasthan
RSK-10(GM-1)		1989			1807		38	Gujarat
RSPR 03		2007	-		933-2022	Suitable for timely sown conditions, fertilizers responsive	37-40	Jammu & Kashmir especially Sub-tropical area of Jammu Division
RW-4C-6-3-II		1986			1350		38	West Bengal
Sanjucta Asech (4C-6-3/II)	TM4 x RK2	1988				Suitable for mixed cropping		Assam, Bihar, West Bengal, Orissa
Sarama (RW 85-89)	Varuna x B5	1984		115	1700	Moderately resistant to Alternaria blight and aphids	38	West Bengal
Seeta (B 85)	Selection from Madhipura material	1982	19(E) 14-1-1982	95-100	1200-1400 (R+)	Early maturing tolerant to Alternaria blight and aphids	38	West Bengal, Arunachal Pradesh
Shatabdi (ACN-9)	Seeta x RW 351	2005		95-105	800-1000	Moderately susceptible to aphids, white rust, wilt and powdery mildew	32-40	Maharashtra

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Shekhar (KR5610)	Selection from Elawah material	1978		135	1800 (R+I)		40	Uttar Pradesh
Shivalik (Mahon-8)		2002	-		1442	Suitable for late sown conditions	38-39	Delhi, Haryana, Punjab and Rajasthan
Shivani (BAUR 9502)	Local Selection	2003	1177(E) 25-8-2005	93	600-750 (Rainfed) 1200-1500 (Irrigated)	Suitable for rainfed, low fertility conditions.	41	Jharkhand
Swaran Jyoti (RH9801)	Selection from RC1670	2002	283(E) 12-3-2003	123-130	1377	Suitable for irrigated late sown conditions	39-43	Haryana, Madhya Pradesh, South Rajasthan and Uttar Pradesh
TH-65		1988			1738		44	Haryana
TL 15		1989						Himachal Pradesh
TLC-1		1983		100	500-1200		40	Punjab
TM-2	Gamma ray induced mutant of RL 9	1993	615(E) 17-8-1993	90-95	1600		38-40	Assam (Rainfed)
TM-4	Varuna x TM1	1993	615(E) 17-8-1993	90-95	1200-1600		38	Assam (Rainfed)
TPM-1		2006	2007		1127-1682	Yellow seeds, High oil yield, Tolerant to powdery mildew	34-39	Western Maharashtra
Urvashi (RK 9501)	Varuna x Kranti	2001	92(E) 2-2-2001	125	1700	Suitable for irrigated conditions	39	Uttar Pradesh

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Varuna (T 59)	Selection from Varanasi local	1976	786 2-2-1976	90-100	2,000-2500 (R+)	Moderately resistant to Alternaria blight, suitable for late and early sowing	40	All India
Vasundhara (RH 9304)	RH839 x RH 30	2002	283(E) 12-3-2003	129-137	2109	Suitable for normal sown irrigated conditions	38-40	Haryana, Madhya Pradesh, South Rajasthan, Uttar Pradesh and Uttaranchal
VSL-5 (Jagannath)	Varuna x Synthetic juneja	1999	425(E) 18-6-1999	125-130	1800	Suitable for normal sown irrigated conditions	41	Uttar Pradesh, Rajasthan

Taramira

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Hyola PAC 401	Female H x 401 Male H 401M	2000 / 1997	92(E) 2-2-2001	137-182	1200-1640	Double low (low erucic acid, 0.8 % and low glucosinolate content, 1.5 micromoles/g defatted seed meal)	42	Haryana, Himachal Pradesh and Punjab
ITSA (Improved Taramira Selection -A)	Reselection from oria A	1978	131 9-12-1978	120	800-1000 (I)		44	Punjab
Karan Tara (RTM-3140)	Selection from Sri Ganganagar material	2001	1134(E) 1-5-1997	142	1050	For rainfed areas.	34-35	Haryana, Punjab, Rajasthan and Uttar Pradesh
T 27	Selection from Gurgaon local	1976	786 2-2-1976	150	650 (R)		36	Haryana

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
TMC 1		1980						Rainfed areas of Punjab
TMLC2		1990				Resistant to aphids		Rainfed areas of Punjab

Toria (*Brassica rapa* ssp. *Toria*)

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Agrani (B54)	Selection from local germplasm from West Bengal	1982	19(E) 14-1-1982	70-75	1200	Suitable for multiple cropping escapes from aphids due to earliness	40	West Bengal
Bhavani (TK8401)	Selection from Tarai region of Uttar Pradesh	1986	258(E) 14-5-1986	75-80	800-1000	Early maturing		Uttar Pradesh
BR 13	Selection from purnea material	1965						Bihar
BR-23	Selection from purnea (Bihar) material	1993	615(E) 17-8-1993	100	500-600		43	Bihar
DK 1	Selection from Agrani (B54)	1970			800-1,000 (l)	Suitable for sowing after Maize	44	Himachal Pradesh
Jawahar Toria (JMT 689)	Composite from local and T9	1996				Resistant to white rust		Madhya Pradesh
JMT-689	Local collections and T-9	1997	360(E) 1-5-1997					Punjab
M18	Selection from Assam local	1956						

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
M2	Selection from Assam local	Prior to 1952						Assam
M3	Selection from Assam local	Prior to 1953						Assam
ORT (M) 2-4 (Parbati)	BT4 Selection from 100 KR(Gama ray)	2001	1134(E) 15-11-2001	75	1300-1500	For rainfed areas	42	Orissa
ORT(M) 6-2 Anuradha	Selection from gamma irradiated TS29	2002	937(E) 4-9-2002	75	1460	For rainfed areas	44	Orissa
Panchali (TWC-3)	(K1 x T99) x [(ITSa x B54)x (T9 x Karmahal)]	1988	1135(E) 1-12-1988	80-85	1200-1400		42	WB
PBT 37	Half sib family developed in TLC 1	1996	1(E) 1-1-1996	95	1347	Resistant to white rust, suitable for Toria-wheat rotation		Punjab
PT 30	Poly cross involving M 3 Female and Number of male parents	1987	165(E) 6-3-1987	90-93	1400-1600	Tolerant to <i>Alternaria</i> blight, downy mildew, white rust		Uttar Pradesh
PT 303	B54 x DSH 17 MD	1985	832(E) 18-11-1985	95	900-1100	Tolerant to <i>Alternaria</i> blight, downy mildew, white rust		Assam, Bihar, Haryana, Punjab, UP, WB
PT 507	Local population from Uttar Pradesh	1990	386(E) 15-5-1990	85-90	1400-1600			Uttar Pradesh
RAUTS-17	Selection from UP 70-SC-17	1990	386(E) 15-5-1990	85	800-1400		43	Bihar

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Sangam		1976	786 2-2-1976	110	1500		44	Haryana
Suman (TH 63)		1985						Haryana
T 16	Selection from Dhaka material	1956						Eastern and Bundelkhand regions of UP
T 9	Selection from 5509, Uttar Pradesh	1975	44021-8-1975; 131 9-12-1978	90-100	1200-1500 (R+I)	Suitable for high fertility soils	44	Uttar Pradesh, Andhra Pradesh and Rajasthan
T11	Selection from Kanpur material	1936						Central region of Uttar Pradesh
T36	Selection from Etawah material	1963			1200-1500(I)	Yellow seeded	43	Uttar Pradesh, Andhra Pradesh and Rajasthan
TH-68		1991	527(E) 16-8-1991	90	1250-1500		44	Haryana, Punjab
TL 15	Selection from Karnal material	1982	19(E) 14-1-1982	85	1000	Suitable for Toria- wheat rotation	44	Punjab
TLC 1 (Toria Ludhian Composite)	Composite of ten elite toria strains	1983				Suitable for Toria-sunflower/ Toria-sugarcane		Punjab
TS- 46	M27 x TS29	2000						Assam for late sown
TS-29		1980		85-90	1200I		44	Assam and Orissa
TS-36	T9 x TS29	1998			1200	Tolerant to <i>Alternaria</i> blight, downy mildew, white rust and drought suitable for late sown	42-43	Assam (RF/IR)

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
TS-38		1998				Tolerant to <i>Alternaria</i> blight and white rust	42-43	Assam (RF/IR)
TWC 2 (Composite 2)	Composite from (ITSA x B54) x (I9 x Karmahal)	1986						Eastern India
Uttara (PT-2002-25)	Selection from PT303	2008	211(E) 29/01/2010	97	1326	Moderately resistant to white rust, downy mildew and powdery mildew		Uttarkhand
VL Toria-3	SELECTION FROM VHC 86	2006	1703(E) 05/10/2007	145		Resistant to anthracnose and pod blight		Uttarkhand
YSH 0401		2009		115-120			43-45	Haryana

Yellow Sarson (*Brassica campestris*)

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
66-197-3	Selection from local material	1980			1400-1600 (l)	Suitable for pure and mixed cropping	42	Bihar
Beney (B 9)	Selection from Karinganj material	1982	19(E) 14-1-1982	90-95	1200-1400 l	Suitable for late sown and high dose of nitrogen	46	West Bengal, Tripura, Arunachal Pradesh, Meghalaya and Nagaland
Gujarat Sarson (GS 1)	PS66 x YS31	1989	636(E) 2-9-1994	95	1400	Bold seeded and early maturing		Gujarat
Indira (PYS 6)	Local material of Uttar Pradesh	1984			800-900		44-45	West Bengal

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Jhunka (YSBNC-1)	Single plant selection from Nadia material	1998	401(E) 15-5-1998	90-95	1200-1300	Higher yield in closer spacing	46	West Bengal, Assam Bihar, Orissa
K 88	Selection from Etawah material	1978	131 9-12-1988		1400-1800 (l)	Bold seeded	43	Uttar Pradesh
Kiran (PBC 922)		1998	401(E) 15-5-1998		2200 – 2500		40	Western UP, Northern Rajasthan, Punjab, Haryana, Delhi
Kishna (PR-18)	Selection from Varuna	1984	596(E) 13-8-1984		1380	Tolerant to frost	40	Bihar, Orissa, UP, Haryana, Punjab, MP, Rajasthan
Kranti (PR 45)	Selection from Varuna	1983	2(E) 3-1-1983	135	1500-1800 (l)	Resistant to downy mildew and white rust	40	Uttar Pradesh, Bihar, West Bengal, Orissa, Haryana, Punjab, Delhi
M-27	Selection from Assam local	1978	131 9-12-1978	85-90	1200		45	Assam, Tripura and Orissa
NRCYS 05-02	Selection from IC 355419			181	1439		50	All India
Narendra Sarson-2 (NDYS-2)	Selection from gamma ray induced mutant of YSIK4	1997	647(E) 9-9-1997	125-130	1200-1700	Resistant to downy mildew, powdery mildew and white rust	43	Uttar Pradesh
NDR-8501 (Narendra Rai)	Selection from Atwa material	1990	639(E) 17-8-1990		1333		40	Uttar Pradesh and Madhya Pradesh
Patna Sarson-2 (PS 66)	Selection from Gujarat material	1984	596(E) 3-8-1984	110	1200-1400 (l)		42	Gujarat
Pusa -74	T42 x code 807 strain					Highly tolerant to aphids		

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Pusa Gold	NIC 394 x YST51	1997			3400		45	Bihar, West Bengal, Orissa
Pusa Kalyani (PN 15-5/19)		1974	598(E) 8-10-1974	110-120	1500-1700 (l)	Resistant <i>Alternaria</i> blight, Powdery mildew, white rust and aphids	45	Uttar Pradesh
PYS r**		2004		99-125	1050-1163	For irrigated areas	42-44	Uttarkhand
Ragini (MYSL-203)	Selection from Allahabad material	2000	92(E) 2-2-2001	100-136	1567	Suitable for irrigated conditions	44	Bihar, Eastern Uttar Pradesh and West Bengal
Rajendra Sarson-1 (RAUDY 89-115)	Selection from local material	1996		100	1500-1700	Moderately resistant to <i>Alternaria</i> blight and white rust	46	Bihar, Eastern UP and West Bengal
Rohini (KRV-24)	Selection from Varuna	1985	867(E) 26-11-1986	120-125	1300-1800(l)		40	Uttar Pradesh and Madhya Pradesh
Subinoy (YSB-19-7-c)	IB1939 x IB737	1991	527(E) 16-8-1991		1400-1700		46	West Bengal and Eastern India
Swarna (RAUDYS89-07)	YST151 x Dholi Pendent	1998						Bihar
T 10	Selection from Kanpur material	1957				Bold seeded		Central Uttar Pradesh
T 151	Selection from Aligarh material	1978	131 9-12-1988	120	1400-1500(l)		46	Eastern Uttar Pradesh and Bundelkhand
T 42	Selection from Basti materia	1978	131 9-12-1988	125	1200-1500(l)			Eastern Uttar Pradesh

Variety/ Hybrid	Pedigree	Year of release	Year of Notification	Maturity (days)	Yield (kg/ha)	Salient Features	Oil Content (%)	Area of Adaptability
Vaibhav (RK-1418)	Biparental mating involving 6 lines/cultivars	1985	832(E) 18-11-1985	140-145	1300-1800(R)	Resistant to <i>Alternaria</i> blight and white rust	38	Uttar Pradesh and Madhya Pradesh
Vardhan (RK-1467)	Biparental mating involving 6 lines/cultivars	1985	832(E) 18-11-1985	120-125	1300-1800(l)		40	Uttar Pradesh and Madhya Pradesh
YSPB- 24	Mass selection from Mewat local	1978	131 9-12-1988	145	1000-1200 (l)		45	Punjab, Haryana and Rajasthan
YST 151	Selection from Barabanki material	1957		130-135	1100-1500	Multi- valved siliquae		Eastern Uttar Pradesh