



Government of India
Bhabha Atomic Research Centre

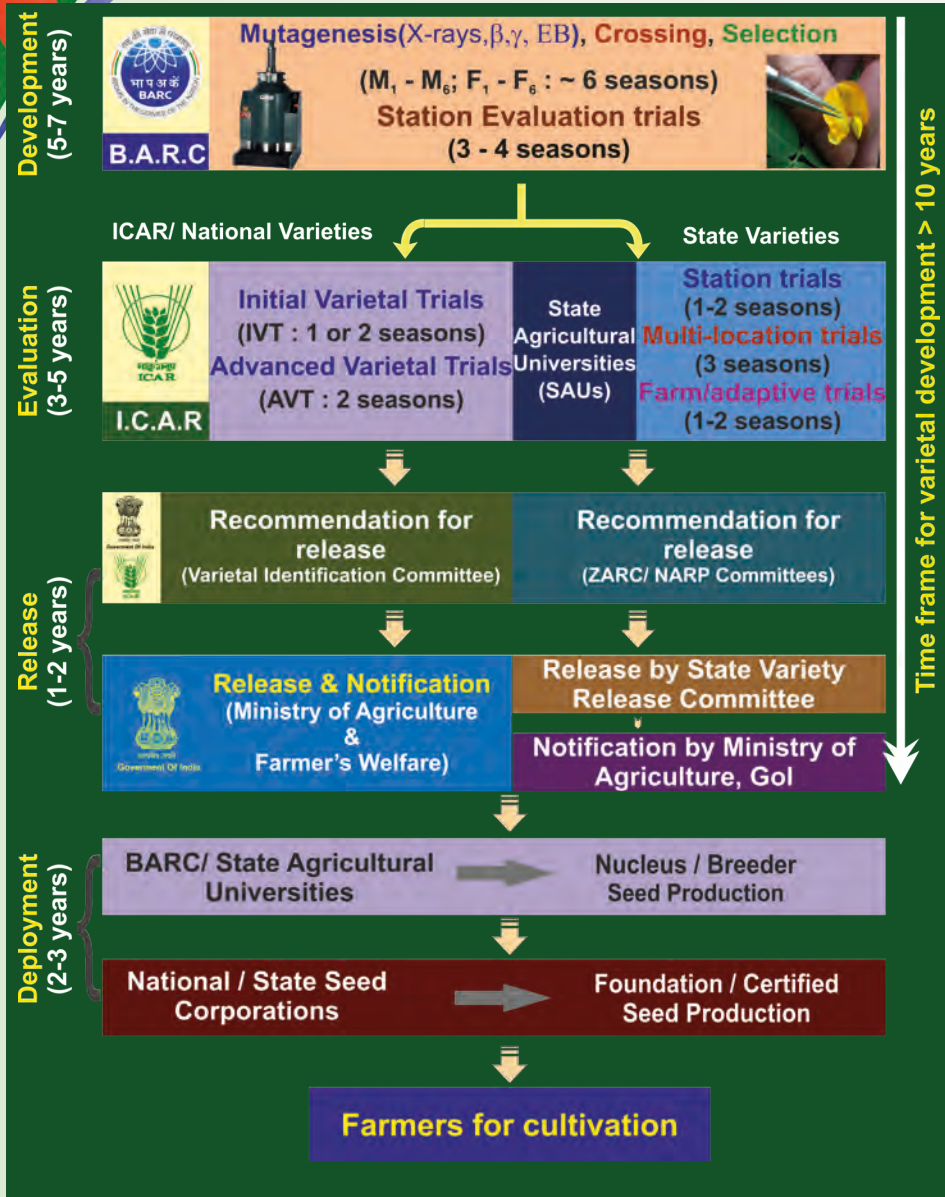
Trombay Crop Varieties



2023

Nuclear Agriculture and Biotechnology Division
Bio-Science Group, Trombay, Mumbai, 400 085, Maharashtra

Timeframe for Varietal Release



Preface

Nuclear Agriculture and Biotechnology Division (NA&BTD) of **Bhabha Atomic Research Centre (BARC)** has a comprehensive and inclusive research programme in crop improvement and crop production/protection technologies under the peaceful and non-power applications of atomic energy. The active collaborative pursuit of NA&BTD with the Indian Council of Agricultural Research and various State Agricultural Universities has fructified in the release of several improved crop varieties and spin-off technologies in crop production and crop protection. Many of these varieties and technologies have colossally enhanced the income of farmers and traders, enriched the national food and nutritional security and empowered the country's vision of self-reliance (Atmanirbhar Bharat).

Induction of mutations using physical and chemical mutagens has been exploited by breeders to develop new crop varieties. Induced mutagenesis through physical mutagens is well proclaimed. A wide range of physical mutagens including UV rays, beta rays, gamma rays, x-rays, fast neutrons, thermal neutrons, electron beams, ion beams etc. are available for use in mutagenesis programme. The effective blend of mutation and recombination breeding at BARC has resulted in the release of 62 crop varieties for commercial cultivation across the country in 12 different crops (**groundnut, mustard, soybean, sunflower, linseed, mungbean, blackgram, pigeonpea, cowpea, rice, sorghum and jute**) and these have largely benefited the farmers nationwide. In addition, Trombay mutant lines have also extensively been used in several national breeding programs for crop improvement.

Apart from varietal development, a large spectrum of mutants in these crops have been generated that are being maintained for use in breeding and basic studies. In addition to the above-mentioned crops, significant strides have been made in improvement of economical traits leading to the development of several breeding lines in **chickpea, sesamum, wheat and cluster bean**. We sincerely acknowledge various agencies including Indian Council of Agricultural Research, State Agriculture Universities, State Agricultural Departments, National and State Seed Corporations, and Seed Companies for the continued support rendered by them in our agricultural research, development and deployment activities.

This bulletin gives a comprehensive overview of the Trombay crop varieties released and notified for commercial cultivation.



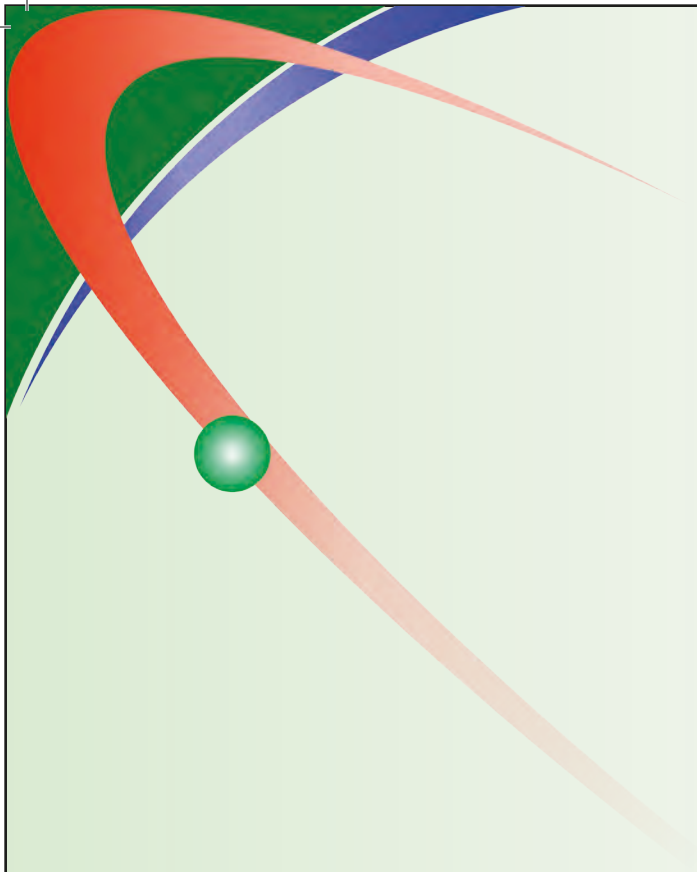


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Trombay Crop Varieties Released and Notified by

Crop	Variety	Year of release	Recommended States	Salient features
  	GG-37 (TG 73, Sorath Gaurav)	2023	Gujarat	Higher pod yield, better shelling out turn, stay-green at harvest, summer suitable, more 3-seeded smooth pods
	TAG-73 (TG 73)	2021	Maharashtra	Large seed, 115 days maturity, more 3-seeded pods
	TG-47 (RARS T1)	2011	Andhra Pradesh	Large seed, medium maturity, high oleic acid, more branches
	TDG-39 (TG-39)	2009	Karnataka	Early maturity, high shelling per cent
	TBG-39 (TG-39)	2008	Rajasthan	Large seed, medium maturity
	TG-51	2008	WB, Odisha, Bihar, North Eastern States	High shelling per cent, more 3-seeded pods, stem rot tolerance
	TLG-45	2007	Maharashtra	High yield, wider adaptability, smooth pods, and drought tolerance
	TG-38	2006	WB, Odisha, North Eastern States, Bihar	Large seed, medium maturity, high oleic acid
	TG-37A	2004	Rajasthan, UP, Punjab, Haryana, Gujarat, WB, Odisha, N. Eastern States	Large seed, medium maturity, high oleic acid
	TPG-41	2004	All India	Earliness, high harvest index, 20 days seed dormancy
	TG-26	1996	Gujarat, MP, Maharashtra	Large seed, 30 days seed dormancy
	TKG-19A	1996	Maharashtra	Medium large seed, 50 days seed dormancy
	TG-22	1994	Bihar	Earliness, high yield, high harvest index, high percent partitioning
	TAG-24	1992	Maharashtra, Rajasthan, Karnataka, Odisha, WB	Large seed, semi-runner type
	Somnath (TGS-1)	1991	Gujarat	High yield
TG-3	1987	Kerala	No secondary branches, 30 days seed dormancy	
TG-17	1985	Maharashtra	High yield, large seed, more branches, 50 days seed dormancy	
TG-1	1973	Maharashtra, Gujarat		
	TAMS 98-21	2007	Maharashtra	High yielding, resistant to bacterial pustules, <i>Myrothecium</i> leaf spot and soybean mosaic virus diseases
	TAMS-38	2005	Maharashtra	Early maturing, resistant to bacterial pustule and <i>Myrothecium</i> leaf spot
 	TBM-143	2022	West Bengal	Appressed pod, yellow seeds, lodging resistant
	THPM-1	2021	Himachal Pradesh	High yield, semi-erect to erect plant, long main fruiting axis
	BBM-1	2021	Jharkhand	High yield, bold seed, drought tolerant, long main fruiting axis
	TAM-108-1	2021	Maharashtra	High yield, bold seed, more siliqua density
	TBM-204	2019	West Bengal	Yellow seed, high yield, dark green leaves, prominent constriction on siliqua
	TPM-1	2007	Maharashtra	Yellow seed, powdery mildew tolerant, early, high yield
	TM-2	1987	Assam	Appressed pod, high yield
TM-4	1987	Assam	Yellow seed, high yield	
	TAS-82	2007	Maharashtra	Black seed coat, tolerant to drought
	TL-99	2019	UP, Bihar, Jharkhand, WB, Assam, Nagaland	Low linolenic acid, high yield and oil content
	TKJ-40 (Mahadev)	1983	Odisha	High yielding

the Government of India for Commercial Cultivation

Crop	Variety	Year of release	Recommended States	Salient features
	TRCRM-147	2023	Karnataka	Suitable for summer, resistant to yellow mosaic disease, large seed size
	TM-2000-2 (Pairy Mung)	2010	Chhattisgarh	Suitable for rice fallow and resistant to powdery mildew
	TM-96-2 (Trombay Pesara)	2007	Andhra Pradesh	Resistant to powdery mildew and <i>Corynespora</i> leaf spot
	TJM-3	2007	Madhya Pradesh	Resistant to powdery mildew, YMD and <i>Rhizoctonia</i> root-rot diseases
	TMB-37	2005	UP, Bihar, Jharkhand, Assam, WB	Tolerant to yellow mosaic virus
	TARM-18	1997	Maharashtra	Resistant to powdery mildew
	TARM-1	1997	Maharashtra, Gujarat, MP, Andhra Pradesh, Kerala, TN, Odisha, Karnataka	Resistant to powdery mildew
	TARM-2	1994	Maharashtra	Resistant to powdery mildew
	TAP7	1983	Maharashtra, Karnataka	Tolerant to powdery mildew
	TJU-130	2023	Madhya Pradesh	Resistant to YMD, anthracnose, & powdery mildew, summer suitable
	TJU-339	2023	Madhya Pradesh	Resistant to YMD, anthracnose, & powdery mildew, summer suitable
	TRCRU-22	2023	Karnataka	Suitable for summer, YMD resistant, medium large seeds
	TU-40	2013	AP, Karnataka, Odisha, TN	Suitable for rice fallows and resistant to powdery mildew
	TU 94-2	1999	AP, Kerala, Karnataka, TN	Resistant to YMD
	TAU-2	1993	Maharashtra	High yielding
	TPU-4	1992	Maharashtra, MP	Large seed
	TAU-1	1985	Maharashtra	Large seed, high yielding
	PKV-TARA	2013	Maharashtra	Resistant to wilt and sterility mosaic
	TJT-501	2009	MP, Maharashtra, Gujarat, Chhattisgarh	High yielding, tolerant to <i>Phytophthora</i> blight, early maturing
	TT-401	2007	MP, Maharashtra, Gujarat, Chhattisgarh	High yielding, tolerant to pod borer and pod fly damage
	TAT-10	1985	Maharashtra	Early maturing
	TT-6	1985	MP, Maharashtra, AP, Gujarat, Karnataka, Kerala	Large seed
	TC-901	2018	Gujarat, Rajasthan, MP, WB, Maharashtra, Uttarakhand	Suitable for summer, mosaic and root rot resistant, early maturing
	TRC-77-4 (Khalleshwari)	2007	Chhattisgarh	Suitable for rice based cropping system
	TCVM	2021	Chhattisgarh	Semi-dwarf, medium duration, lodging resistant & aromatic grains
	TCSM	2021	Chhattisgarh	Semi-dwarf, high yielding (60-65 q/ha), late maturing
	CGJT	2021	Chhattisgarh	Short slender, aromatic, semi-tall, lodging resistant
	Vikram-TCR	2021	Chhattisgarh	Semi-dwarf, lodging resistant, drought tolerant
	TKR-Kolam	2020	Maharashtra	Semi-dwarf, very fine grain, high yielding
	TCDM-1	2019	Chhattisgarh	Semi-dwarf, lodging resistant, aromatic grains
	Hari	1988	Andhra Pradesh	Slender grain type
	TAKPS-5	2023	Maharashtra	Better hurda yield, early maturing, compact panicles, sweet grains
	TRJP1-5	2023	Karnataka	Synchronized flowering, large seeds, good roti making quality, medium duration



Groundnut
TAG-73/GG-37
(Sorath Gaurav)



Groundnut (मूँगफली)



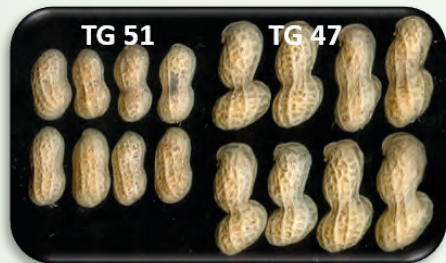
Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TAG-73, GG-37 (Sorath Gaurav)
Pedigree	Gamma ray mutant of TG 38
Year of release	2021(TAG-73) / 2023 (GG-37)
Notification	SO No. 8 (E) dt 24.12.2021 SO No. 1056 (E) dt 06.03.2023
Recommended region	Maharashtra (TAG-73) Gujarat (GG-37)
Suitable season	Rabi/summer (October - May)
Duration	105-110 days
Salient features	More 3-seeded smooth pods, high shelling percent, stay green at harvest, pod yield of 3000-3500 kg/ha
Collaborating Institutes	<ul style="list-style-type: none">• Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra• Junagadh Agricultural University, Junagadh, Gujarat



Groundnut

RARST-1

(Bheema, TG-47)



Groundnut (मूँगफली)

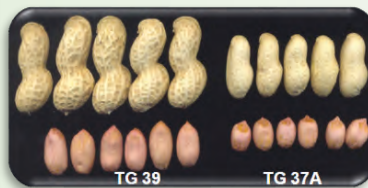


Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	RARST-1 (Bheema, TG-47)
Pedigree	TAG 24 X TG 19
Year of release	2011
Notification	SO No. 283 (E) dt 07.02.2011
Recommended region	Andhra Pradesh
Suitable season	Early kharif (June - October) Rabi/summer (October - May)
Duration	110-115 days
Salient features	Large seed (65-70g/100 seeds), more 3-seeded pods, pod yield of 2500-3000 kg/ha
Collaborating Institute	Acharya N.G. Ranga Agricultural University, Tirupati, Andhra Pradesh



Groundnut

TBG-39/TDG-39



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TBG-39, TDG-39
Pedigree	TAG 24 X TG 19
Year of release	2008, 2009
Notification	SO No. 2458 (E) dt 16.10.2008 SO No. 449 (E), dt 11.02.2009
Recommended region	Rajasthan, Karnataka
Suitable season	Kharif/rainy (June - October)
Duration	115-120 days
Salient features	Large seed (70-75g/100 seeds), high oleic acid (59%), more branches, moisture stress tolerance, pod yield of 2500-3000 kg/ha
Collaborating Institutes	<ul style="list-style-type: none">• Rajasthan Agricultural University, Bikaner, Rajasthan• University of Agricultural Sciences, Dharwad, Karnataka



Groundnut TG-51



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TG-51
Pedigree	TG 26 X Chico
Year of release	2008
Notification	SO No. 2458 (E) dt 16.10.2008
Recommended region	Bihar, Odisha, West Bengal, North Eastern states
Suitable season	Rabi/summer (October - May)
Duration	90-95 days
Salient features	High shelling percent, more 3-seeded pods, escapes end-season drought, pod yield of 2500-3000 kg/ha, suitable for residual moisture situation
Collaborating Institute	ICAR-Directorate of Groundnut Research, Junagadh, Gujarat



Groundnut TLG-45



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Booimug, Nelagadale, Kallekai
Variety name	TLG-45
Pedigree	TG 19 X TAG 24
Year of release	2007
Notification	SO No.122 (E) dt 06.02.2007
Recommended region	Maharashtra
Suitable season	Kharif/rainy (June - October)
Duration	115-120 days
Salient features	Large seed (75-80g/100seds), high yielding (2500-3000 kg/ha)
Collaborating Institute	Vasantrao Naik Marathwada Krishi Vidyapeeth, Latur, Maharashtra



Groundnut TG-38



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Booimug, Nelagadale, Kallekai
Variety name	TG-38
Pedigree	Gamma ray mutant from the cross Ginar-1 X TG 26
Year of release	2006
Notification	SO No.1572(E) dt 20.09.2006
Recommended region	Bihar, Odisha, West Bengal, North Eastern states
Suitable season	Rabi/summer (October - May)
Duration	100-105 days
Salient features	High shelling percent, more 3-seeded pods and round seeds, pod yield of 2500-3000 kg/ha, suitable for rice fallows
Collaborating Institute	ICAR-Directorate of Groundnut Research, Junagadh, Gujarat



Groundnut TG-37A



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TG-37A
Pedigree	TG 25 X TG 26
Year of release	2004
Notification	SO No. 161 (E) dt 04.02.2004
Recommended region	Bihar, Gujarat, Haryana, Odisha, Rajasthan, Punjab, UP, West Bengal, North Eastern states
Suitable season	Kharif/rainy (June - October) ; Rabi/summer (October - May)
Duration	100-105 days
Salient features	Smooth pods, drought tolerance, wider adaptability, pod yield of 2500-3000 kg/ha, suitable for rice fallows
Collaborating Institute	ICAR-Directorate of Groundnut Research, Junagadh, Gujarat



Groundnut TPG-41



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Booimug, Nelagadale, Kallekai
Variety name	TPG-41
Pedigree	TG 28A X TG 22
Year of release	2004
Notification	SO No. 161 (E) dt 04.02.2004
Recommended region	All India
Suitable season	Rabi/summer (October - May)
Duration	120-125 days
Salient features	Large seed (70-75g/100 seeds), 20 days seed dormancy, high oleic acid (60%), pod yield of 2500-3000 kg/ha
Collaborating Institutes	<ul style="list-style-type: none">• ICAR-Directorate of Groundnut Research, Junagadh, Gujarat• Mahatma Phule Krishi Vidyapeeth, Jalgoan, Maharashtra



Groundnut TG-26



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TG-26
Pedigree	BARCG 1 X TG 23
Year of release	1996
Notification	SO No. 001 (E) dt 01.01.1996
Recommended region	Gujarat, Madhya Pradesh, Maharashtra
Suitable season	Rabi/summer (October - May)
Duration	100-105 days
Salient features	Semi-dwarf, earliness, high harvest index, smooth pods, 20 days seed dormancy, Iron chlorosis tolerance, high yielding (3000-3500 kg/ha)
Collaborating Institute	ICAR-Directorate of Groundnut Research, Junagadh, Gujarat



Groundnut TKG-19A



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Booimug, Nelagadale, Kallekai
Variety name	TKG-19A
Pedigree	TG 17 X TG 1
Year of release	1996
Notification	SO No. 001 (E) dt 01.01.1996
Recommended region	Maharashtra
Suitable season	Rabi/summer (October - May)
Duration	115-120 days
Salient features	Large seed (70-75g/100 seeds), 30 days seed dormancy, high yielding (2200-2500 kg/ha)
Collaborating Institute	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra



Groundnut TG-22



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TG-22
Pedigree	Robut 33-1 X TG 17
Year of release	1994
Notification	SO No. 636(E) dt 02.09.1994
Recommended region	Bihar
Suitable season	Kharif/rainy (June - October)
Duration	110-120 days
Salient features	Medium large seed (55-60g/100 seeds), 50 days seed dormancy, pod yield of 1500-2000 kg/ha
Collaborating Institute	Birsa Agricultural University, Kanke, Bihar



Groundnut
TAG-24



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TAG-24
Pedigree	TGS 2 X TGE 1
Year of release	1992
Notification	SO No. 814(E) dt 04.11.1992
Recommended region	Karnataka, Maharashtra, Odisha, Rajasthan, West Bengal
Suitable season	Rabi/summer (October - May)
Duration	100-105 days
Salient features	Semi-dwarf, earliness, high harvest index, high yielding (3000-3500 kg/ha), salinity tolerance, wider adaptability
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Groundnut Somnath (TGS-1)



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boimug, Nelagadale, Kallekai
Variety name	Somnath (TGS-1)
Pedigree	TG 18A X M 13
Year of release	1991
Notification	SO No.793 (E) dt 22.11.1991
Recommended region	Gujarat
Suitable season	Kharif/rainy (June - October)
Duration	120-125 days
Salient features	Semi-runner type with main stem and sequential flowering, large seed (60-70g/100 seeds), high yielding (2000-2200 kg/ha)
Collaborating Institute	Gujarat Agricultural University, Junagadh, Gujarat



Groundnut
TG-3



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Booimug, Nelagadale, Kallekai
Variety name	TG-3
Pedigree	X-ray mutant of Spanish Improved
Year of release	1987
Notification	SO No.165 (E) dt 06.03.1987
Recommended region	Kerala
Suitable season	Kharif/rainy (June - October)
Duration	100-105 days
Salient features	High yielding (1500-2000 kg/ha), suitable for rice fallows
Collaborating Institute	ICAR-Indian Institute of Oilseeds Research, Hyderabad



Groundnut
TG-17



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TG-17
Pedigree	Dark green leaf mutant X TG 1
Year of release	1985
Notification	SO No. 832(E) dt 18.11.1985
Recommended region	Maharashtra
Suitable season	Kharif/rainy (June - October)
Duration	120-125 days
Salient features	No secondary branches, pod yield of 1500-1700 kg/ha, 25-30 days seed dormancy
Collaborating Institute	ICAR-Indian Institute of Oilseeds Research, Hyderabad



Groundnut
TG-1 (Vikram)



Groundnut (मूँगफली)



Botanical name	<i>Arachis hypogaea</i>
Common names	Peanut, Moongphali, Shengdhana, Verkadalai, Boomug, Nelagadale, Kallekai
Variety name	TG-1 (Vikram)
Pedigree	X-ray mutant of Spanish Improved
Year of release	June 1973
Recommended region	Gujarat and Maharashtra
Suitable season	Kharif/rainy (June - October)
Duration	130-135 days
Salient features	Large seed (85g/100 seeds), profuse branching, 60 days seed dormancy, pod yield of 1300-1500 kg/ha
Collaborating Institute	ICAR-Indian Institute of Oilseeds Research, Hyderabad



Soybean
TAMS-98-21



Soybean (सोयाबीन)



Botanical name	<i>Glycine max</i>
Common names	Soja bean, Soya bean, Soya avarai
Variety name	TAMS-98-21
Pedigree	Mutant of JS-80-21
Year of release	2007
Notification	SO No. 122(E) dt 06.02.2007
Recommended region	Maharashtra
Suitable season	Kharif/rainy (June - October)
Duration	103 days
Salient features	High yielding (2200 - 2400 kg/ha), resistant to bacterial pustules, <i>Myrothecium</i> leaf spot, soybean mosaic virus and moderately resistant to rust and other leaf spot diseases
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Amravati, Maharashtra

Soybean (सोयाबीन)



Botanical name	<i>Glycine max</i>
Common names	Soja bean, Soya bean, Soya avarai
Variety name	TAMS-38
Pedigree	Monetta x PK-472
Year of release	2005
Notification	SO No. 122 (E) dt 02.02.2005
Recommended region	Maharashtra
Suitable season	Kharif/rainy (June - October)
Duration	95 days
Salient features	Early maturing, resistant to bacterial pustule and <i>Myrothecium</i> leaf spot
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Amravati, Maharashtra



Linseed
TL-99



Linseed (अलसी)



Botanical name	<i>Linum usitatissimum</i>
Common names	Flax, Alasi, Agase, Ali Vidai, Pesi, Cheruchana Vithu, Avise Ginzalu
Variety name	TL-99
Pedigree	RLC 6 X Solin (Mutant Derivative)
Year of release	2020
Notification	SO No. 99(E) dt 06.01.2020
Recommended region	Uttar Pradesh, Bihar, Jharkhand, West Bengal, Assam and Nagaland
Suitable season	Rabi
Duration	125-130 days
Salient features	Low linolenic acid (2 to 5 %) suitable as edible oil, resistant to rust disease and moderately resistant to powdery mildew, <i>Alternaria</i> blight and wilt diseases
Collaborating Institute	ICAR- Indian Institute of Oilseeds Research, Hyderabad



Mustard

TBM-143



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	TBM-143
Pedigree	TM102 x Sunbean
Year of release	2022
Notification	SO No. 4065 (E) dt 31.08.2022
Recommended region	West Bengal
Suitable season	Rabi
Duration	104 days
Salient features	Appressed pods, yellow seeds, lodging or shattering resistant
Collaborating Institute	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, West Bengal



Field view of THPM-1
at pod stage

Mustard THPM-1



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	THPM-1
Pedigree	TM2 x IC264133
Year of release	2021
Notification	SO No. 8 (E) dt 24.12.2021
Recommended region	Himachal Pradesh
Suitable season	Rabi
Duration	150-155 days
Salient features	Wider adaptability, broad leaf, prominent leaf hairs
Collaborating Institute	CSK Himachal Pradesh Krishi Vishwavidyalaya, Palampur, Himachal Pradesh



**BBM-1 AT
FLOWERING STAGE**

Mustard BBM-1



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	BBM-1
Pedigree	TM2 x IC264133
Year of release	2021
Notification	SO No. 8 (E) dt 24.12.2021
Recommended region	Jharkhand
Suitable season	Rabi
Duration	112-117 days
Salient features	High yield, large seed, drought tolerant, moderately tolerant to <i>Alternaria</i> , white rust and powdery mildew diseases
Collaborating Institute	Birsa Agricultural University, Ranchi, Jharkhand



Mustard
TAM-108-1



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	TAM-108-1
Pedigree	TM 102 X RB 9901(Geeta)
Year of release	2021
Notification	SO No. 8 (E) dt 24.12.2021
Recommended region	Maharashtra
Suitable season	Rabi
Duration	100-105 days
Salient features	High yield, large seed, more siliqua density, long main fruiting axis, less incidence of powdery mildew under early to normal sowing condition
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Mustard
TBM-204



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	TBM-204
Pedigree	TM102 x TM28
Year of release	2019
Notification	SO No. 3220 (E) dt 05.09.2019
Recommended region	West Bengal
Suitable season	Rabi
Duration	110-115 days
Salient features	High yield, yellow seeded, dark green leaves, prominent constriction on siliqua, more oil content and large seeds
Collaborating Institute	Bidhan Chandra Krishi Viswavidyalaya, West Bengal



Mustard

TPM-1



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	TPM-1
Pedigree	Mutant of Rai-5
Year of release	2007
Notification	SO No. 1703 (E) dt 05.10.2007
Recommended region	Maharashtra
Suitable season	Rabi
Duration	95-100 days
Salient features	High yield, yellow seeded with small leaf and powdery mildew tolerance
Collaborating Institute	Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra



Mustard
TM-2



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	TM-2
Pedigree	Mutant of RL-9
Year of release	1993
Notification	SO No.615(E) dt 17.08.1993
Recommended region	Assam
Suitable season	Rabi
Duration	90-95 days
Salient features	Black seeded, high yielding (1300 kg/ha), appressed pods
Collaborating Institute	Assam Agricultural University, Jorhat, Assam



Mustard
TM-4



Mustard (राई)



Botanical name	<i>Brassica juncea</i>
Common names	Indian mustard, Rai, Kaduku, Sarson, Mohari, Sasive
Variety name	TM-4
Pedigree	Varuna x TM-1 (TPM-1)
Year of release	1993
Notification	SO No.615 (E) dt 17.08.1993
Recommended region	Assam
Suitable season	Rabi
Duration	95-100 days
Salient features	Yellow seeded, high yielding (1470 kg/ha)
Collaborating Institute	Assam Agricultural University, Jorhat, Assam



Sunflower

TAS-82



Sunflower (सूर्यमुखी)



Botanical name	<i>Helianthus annus</i>
Common names	Sunflower, Suryamukhi, Suryagandhi, Suryakanthi
Variety name	TAS-82
Pedigree	Mutant of variety 'Surya'
Year of release	2007
Notification	SO No 1703 (E) dt 05.10.2007
Recommended region	Maharashtra
Suitable season	Kharif & Rabi
Duration	Mid late (90-100 days)
Salient features	Black seed coat, tolerant to sunflower necrosis disease, suitable for low rainfall condition
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Mungbean

TRCRM-147



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TRCRM-147
Pedigree	TM-98-80 x SML-668
Year of release	2023
Notification	SO No. 1056 (E) dt 06.03.2023
Recommended region	Karnataka
Suitable season	Summer
Duration	60-65 days
Salient features	Resistant to yellow mosaic disease, large seed size, high yielding & suitable for summer
Collaborating Institute	University of Agricultural Sciences, Raichur, Karnataka



Mungbean TM-2000-2 (Pairy Mung)



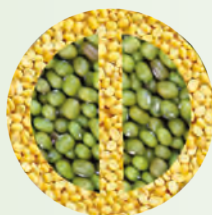
Mungbean (मूँग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TM-2000-2 (Pairy Mung)
Pedigree	TARM-1 x JL-781
Year of release	2010
Notification	SO No 211(E) dt 29.01.2010
Recommended region	Chhattisgarh
Suitable season	Rabi & semi-irrigated rice fallows
Duration	65-70 days
Salient features	Resistant to powdery mildew, synchronous podding & maturity, suitable for rice fallows, medium bold seeds, high yielding (950 kg/ha)
Collaborating Institute	Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh



Mungbean
TM-96-2 (Trombay Pesara)



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TM-96-2 (Trombay Pesara)
Pedigree	Kopergaon x TARM-2
Year of release	2007
Notification	SO No. 1178(E) dt 20.07.2007
Recommended region	Andhra Pradesh
Suitable season	Rabi & summer
Duration	65-70 days
Salient features	High yielding (1020 kg/ha under rice fallow conditions), resistant to powdery mildew, large seed size, suitable for rice fallows
Collaborating Institute	Acharya N.G. Ranga Agricultural University, Hyderabad, Andhra Pradesh



Mungbean

TJM-3



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TJM-3
Pedigree	Kopergaon x TARM-1
Year of release	2007
Notification	SO No. 1178 (E) dt 20.07.2007
Recommended region	Madhya Pradesh
Suitable season	Kharif & summer
Duration	60-65 days
Salient features	High yielding (950 kg/ha), resistant to powdery mildew, yellow mosaic virus and <i>Rhizoctonia</i> root-rot diseases
Collaborating Institute	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh



Mungbean

TMB-37



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TMB-37
Pedigree	Kopergaon x TARM-2
Year of release	2005
Notification	SO No. 1177 (E) dt 25.08.2005
Recommended region	Eastern UP, Bihar, Jharkhand, West Bengal, Assam, Punjab
Suitable season	Summer
Duration	60-65 days
Salient features	High yielding (1100 kg/ha), moderately resistant to yellow mosaic virus
Collaborating Institute	ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Mungbean

TARM-18



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TARM-18
Pedigree	PDM-54 x TARM-2
Year of release	1997
Notification	SO No. 360 (E) dt 01.05.1997
Recommended region	Maharashtra
Suitable season	Kharif
Duration	65 days
Salient features	High yielding (1065 kg/ha), early maturing, resistant to powdery mildew disease
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Mungbean

TARM-1



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TARM-1
Pedigree	RUM-5 x TPM-1
Year of release	1997
Notification	SO No. 360 (E) dt 01.05.1997
Recommended region	Karnataka, Tamil Nadu, Andhra Pradesh, Kerala, Odisha, Madhya Pradesh, Gujarat and Maharashtra
Suitable season	Rabi
Duration	75-80 days
Salient features	High yielding (1204 kg/ha), resistant to powdery mildew, tolerant to yellow mosaic virus disease
Collaborating Institutes	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Mungbean TARM-2



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TARM-2
Pedigree	RUM-5 x TPM-1
Year of release	1994
Notification	SO No. 636(E) dt 02.09.1994
Recommended region	Maharashtra
Suitable season	Rabi
Duration	75-80 days
Salient features	High yielding (1342 kg/ha), resistant to powdery mildew, tolerant to yellow mosaic virus disease
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Mungbean

TAP-7



Mungbean (मूंग)



Botanical name	<i>Vigna radiata</i>
Common names	Mungbean, Mung, Mooga, Pasipayaru, Hesaru
Variety name	TAP-7
Pedigree	Mutant of S-8
Year of release	1983 (MS), 1987 (Karnataka)
Notification	SO No. 2 (E) dt 03.01.1983
Recommended region	Maharashtra, Karnataka
Suitable season	Kharif
Duration	63-65 days
Salient features	Early maturing, high yielding (971 kg/ha), tolerant to powdery mildew disease
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Urdbean
TJU-130



Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TJU-130
Pedigree	KU96-3 x RIL-68
Year of release	2023
Notification	SO No. 4222 (E) dt 25.09.2023
Recommended region	Madhya Pradesh
Suitable season	Summer
Duration	65-70 days
Salient features	Resistant to multiple diseases (yellow mosaic, anthracnose and powdery mildew)
Collaborating Institute	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh



Urdbean
TJU-339



Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TJU-339
Pedigree	TAU-1 x KU-96-3
Year of release	2023
Notification	SO No. 4222 (E) dt 25.09.2023
Recommended region	Madhya Pradesh
Suitable season	Summer
Duration	65-70 days
Salient features	Resistant to multiple diseases (yellow mosaic, anthracnose and powdery mildew)
Collaborating Institute	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh



Urdbean
TRCRU-22



Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TRCRU-22
Pedigree	TAU-1 x KU-96-3
Year of release	2023
Notification	SO No. 1056 (E) dt 06.03.2023
Recommended region	Karnataka
Suitable season	Summer
Duration	70-75 days
Salient features	Resistant to yellow mosaic disease, medium large seeds, high yielding
Collaborating Institute	University of Agricultural Sciences, Raichur, Karnataka



Urdbean
TU-40

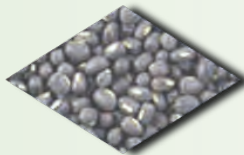


Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TU-40
Pedigree	TU-94-2 x <i>V. mungo var silvestris</i>
Year of release	2013
Notification	SO No. 312 (E) dt 01.02.2013
Recommended region	Tamil Nadu, Andhra Pradesh, Karnataka and Odisha
Suitable season	Rabi
Duration	75 days
Salient features	Resistant to yellow mosaic virus and powdery mildew diseases, high yielding (903 kg/ha), suitable for rice fallows
Collaborating Institute	ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Urdbean
TU-94-2



Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TU-94-2
Pedigree	TPU-3 (mutant) x TAU-5
Year of release	1999
Notification	SO No. 425 (E) dt 08.06.1999
Recommended region	Andhra Pradesh, Kerala, Karnataka, Tamil Nadu
Suitable season	Kharif, Summer
Duration	70 days
Salient features	Resistant to yellow mosaic virus disease and high yielding (950 kg/ha)
Collaborating Institute	ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Urdbean TAU-2



Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TAU-2
Pedigree	U-196 (mutant) x T-9
Year of release	1993
Notification	SO No. 615 (E) dt 17.08.1993
Recommended region	Maharashtra
Suitable season	Kharif, Summer
Duration	60-65 days
Salient features	High yielding (950 kg/ha), resistant to powdery mildew, yellow mosaic virus and <i>Rhizoctonia</i> root rot diseases
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Urdbean
TPU-4



Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TPU-4
Pedigree	U-201 (mutant) x T-9
Year of release	1992
Notification	SO No. 814 (E) dt 04.11.1992
Recommended region	Madhya Pradesh, Gujarat, Maharashtra
Suitable season	Kharif
Duration	72-75 days
Salient features	High yielding (872 kg/ha), large seed size
Collaborating Institutes	Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Urdbean
TAU-1



Urdbean (उड़द)

Botanical name	<i>Vigna mungo</i>
Common names	Blackgram, Urid, Urdbean, Ulunthu, Uddu
Variety name	TAU-1
Pedigree	U-196 (mutant) x T-9
Year of release	1985 (MS), 1996 (Karnataka)
Notification	SO No. 540 (E) dt 24.07.1985
Recommended region	Maharashtra, Karnataka
Suitable season	Kharif
Duration	68-75 days
Salient features	High yielding (1350 kg/ha), large seed size, wider adaptability
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Pigeonpea PKV- TARA



Pigeonpea (अरहर)



Botanical name	<i>Cajanus cajan</i>
Common names	Pigeonpea, Redgram, Tur, Turia, Thuvarai, Togari
Variety name	PKV-TARA
Pedigree	ICPL84008 x TT-6
Year of release	2013
Notification	SO No. 2817 (E) dt 19.09.2013
Recommended region	Maharashtra
Suitable season	Kharif
Duration	155-190 days
Salient features	High yielding (1900 kg/ha), brownish- red medium seeds (9.5 g /100 seed wt), tolerant to <i>Fusarium</i> wilt & sterility Mosaic diseases
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Pigeonpea TJT-501



Pigeonpea (अरहर)

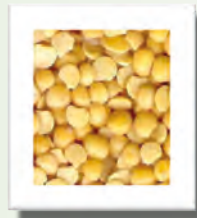


Botanical name	<i>Cajanus cajan</i>
Common names	Pigeonpea, Redgram, Tur, Turia, Thuvarai, Togari
Variety name	TJT-501
Pedigree	ICPL84008 x TT-6
Year of release	2009
Notification	SO No. 2187 (E) dt 27.08.2009
Recommended region	Central Zone (Maharashtra, Madhya Pradesh, Gujarat, Chhattisgarh)
Suitable season	Kharif
Duration	145-155 days
Salient features	High yielding (1750 kg/ha), brown medium seeds, resistant to <i>Fusarium</i> wilt & tolerant to <i>Phytophthora</i> blight
Collaborating Institutes	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Khargone, Madhya Pradesh ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Pigeonpea

TT-401



Pigeonpea (अरहर)

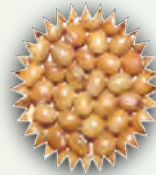
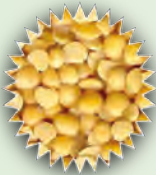


Botanical name	<i>Cajanus cajan</i>
Common names	Pigeonpea, Redgram, Tur, Turia, Thuvarai, Togari
Variety name	TT-401
Pedigree	ICPL84008 x TT-6
Year of release	2007
Notification	SO No.1703 (E) dt 05.10.2007
Recommended region	Central Zone (Maharashtra, Madhya Pradesh, Gujarat, Chhattisgarh)
Suitable season	Kharif
Duration	150 days
Salient features	High yielding (1570 kg/ha), medium brown seeds, tolerant to <i>Fusarium</i> wilt disease, pod borer and pod fly insect pests
Collaborating Institute	ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Pigeonpea

TAT-10



Pigeonpea (अरहर)



Botanical name	<i>Cajanus cajan</i>
Common names	Pigeonpea, Redgram, Tur, Turia, Thuvarai, Togari
Variety name	TAT-10
Pedigree	TT-2 (mutant) x TT-8 (mutant)
Year of release	1985
Notification	SO No. 295(E) dt 09.04.1985
Recommended region	Maharashtra
Suitable season	Kharif
Duration	115 days
Salient features	Erect plant type and extra early maturity, yield: 1000 - 1200 kg/ha
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Pigeonpea

TT-6



Pigeonpea (अरहर)



Botanical name	<i>Cajanus cajan</i>
Common names	Pigeonpea, Redgram, Tur, Turia, Thuvarai, Togari
Variety name	TT-6 (Trombay Vishakha-1)
Pedigree	Mutant of T-21
Year of release	1985
Notification	SO No. 295 (E) dt 09.04.1985
Recommended region	Maharashtra, Madhya Pradesh, Gujarat, Andhra Pradesh, Karnataka, Kerala
Suitable season	Kharif
Duration	120 days
Salient features	Erect plant type, large seed size and extra early maturity
Collaborating Institute	ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Cowpea **TC-901**



Cowpea (चौली)



Botanical name	<i>Vigna unguiculata</i>
Common names	Cowpea, Chauli, Karamani, Yard Long Bean, Alasandi
Variety name	TC-901
Pedigree	Mutant of EC394763
Year of release	2018
Notification	SO No. 6318(E) dt 26.12.2018
Recommended region	Gujarat, Rajasthan, Madhya Pradesh, West Bengal, Maharashtra and Uttarakhand
Suitable season	Summer
Duration	69-75 days
Salient features	Early and synchronous maturity, tolerant to yellow mosaic and root-rot diseases , high yielding (1000-1200 kg/ha)
Collaborating Institute	ICAR-Indian Institute of Pulses Research, Kanpur, Uttar Pradesh



Cowpea
TRC-77-4
(Khalleshwari)



Cowpea (चौली)



Botanical name	<i>Vigna unguiculata</i>
Common names	Cowpea, Chauli, Karamani, Yard Long Bean, Alasandi
Variety name	TRC-77-4 (Khalleshwari)
Pedigree	Mutant of V-130
Year of release	2007
Notification	SO No. 1178 (E) dt 20.07.2007
Recommended region	Chhattisgarh
Suitable season	Kharif and Rabi rice fallows
Duration	75-80 days
Salient features	Suitable for rice fallows, dwarf plant type, medium large seeds, (9.4 g/100 seed wt), dual purpose, high yielding
Collaborating Institute	Indira Gandhi Krishi Vishwa Vidyalaya, Raipur, Chhattisgarh



Rice
TCVM



Rice (चावल)



Botanical name	<i>Oryza sativa</i>
Common names	Rice, Paddy, Arisi, Bhat, Chaval, Bhatta
Variety name	TCVM
Pedigree	Mutant of Vishnubhog
Year of release	2021
Notification	SO No. 8 (E) dt 24.12.2021
Recommended region	Chhattisgarh
Suitable season	Kharif
Duration	120-125 days
Salient features	High yielding (4.0-4.5t/ha), aromatic short grain, semi-dwarf, suitable for <i>kheer</i> or <i>pulav</i> making
Collaborating institute	Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh



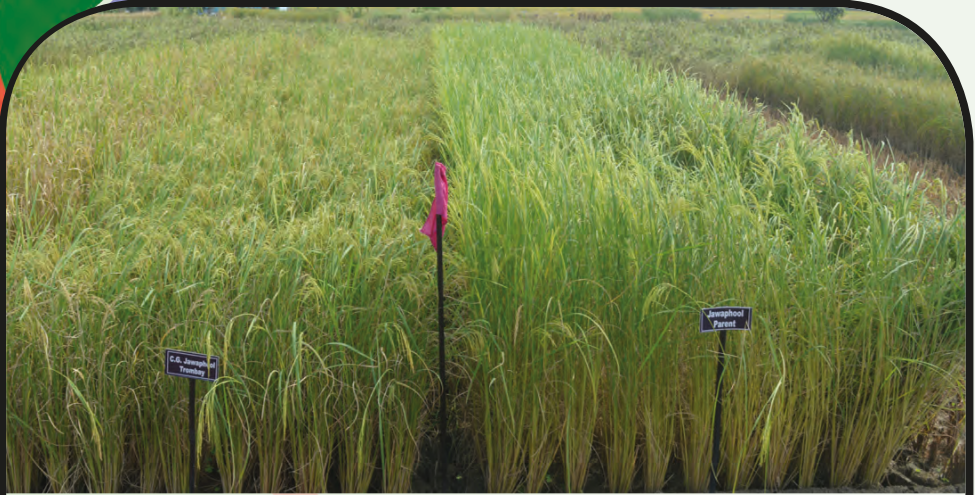
Rice TCSM



Rice (चावल)



Botanical name	<i>Oryza sativa</i>
Common names	Rice, Paddy, Arisi, Bhat, Chaval, Bhatta
Variety name	TCSM
Pedigree	Mutant of Sonagathi
Year of release	2021
Notification	SO No. 8 (E) dt 24.12.2021
Recommended region	Chhattisgarh
Suitable season	Kharif
Duration	135-140 days
Salient features	High yielding (6.0-6.5t/ha), semi-dwarf, late maturity, coarse grain (suitable for rainfed farming)
Collaborating Institute	Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh



Rice CGJT



Rice (चावल)



Botanical name	<i>Oryza sativa</i>
Common names	Rice, Paddy, Arisi, Bhat, Chaval, Bhatta
Variety name	CGJT
Pedigree	Mutant of Jawaphool (Local landrace of Chhattisgarh)
Year of release	2021
Notification	SO No. 500 (E) dt 29.01.2021
Recommended region	Chhattisgarh
Suitable season	Kharif
Duration	130-135 days
Salient features	Aromatic short slender grain, semi-tall, suitable for <i>kheer</i> making
Collaborating Institute	Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh



Rice

Vikram-TCR



Rice (चावल)



Botanical name	<i>Oryza sativa</i>
Common names	Rice, Paddy, Arisi, Bhat, Chaval, Bhatta
Variety name	Vikram-TCR
Pedigree	Mutant of Safri-17 (landrace of Chhattisgarh)
Year of release	2021
Notification	SO No. 500 (E) dt 29.01.2021
Recommended region	Chhattisgarh
Suitable season	Kharif
Duration	118-123 days
Salient features	Semi-dwarf, lodging resistant, drought tolerant, high yielding (6.0 t/ha), suitable for puffed rice (<i>Murmura</i>)
Collaborating Institute	Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh



Rice

TKR-Kolam



Rice (चावल)



Botanical name	<i>Oryza sativa</i>
Common names	Rice, Paddy, Arisi, Bhat, Chaval, Bhatta
Variety name	TKR-Kolam
Pedigree	PB1 mutant x PB1
Year of release	2020
Notification	SO No. 3482 (E) dt 07.10.2020
Recommended region	Maharashtra
Suitable season	Kharif
Duration	130-135 days
Salient features	Semi-dwarf, very fine Kolam type grain (test weight 11g), high yielding (4.0-4.5 t/ha), high milling recovery (74%)
Collaborating Institute	Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli, Maharashtra



Rice
TCDM-1



Rice (चावल)



Botanical name	<i>Oryza sativa</i>
Common names	Rice, Paddy, Arisi, Bhat, Chaval, Bhatta
Variety name	TCDM-1
Pedigree	Mutant of Mai Dubraj
Year of release	2019
Notification	SO No. 1498 (E) dt 01.04. 2019
Recommended region	Chhattisgarh
Suitable season	Kharif
Duration	130-135 days
Salient features	Semi-dwarf, lodging resistant, aromatic grain, high yielding (4.5-4.7 t/ha) and high milling recovery (70%)
Collaborating Institute	Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh



Rice
Hari



Rice (चावल)



Botanical name	<i>Oryza sativa</i>
Common names	Rice, Paddy, Arisi, Bhat, Chaval, Bhatta
Variety name	Hari
Pedigree	IR-8 x TR-5
Year of release	1988
Notification	SO No. 1135 (E) dt 01.12.1988
Recommended region	Andhra Pradesh
Suitable season	Kharif
Duration	135-140 days
Salient features	High yielding (6000 – 6500kg/ha), long slender grains, semi-dwarf (93 cm), non-lodging type
Collaborating Institute	Acharya N. G. Ranga Agricultural University, Hyderabad, Andhra Pradesh



Hurda Sorghum
TAKPS-5
(Suruchi)



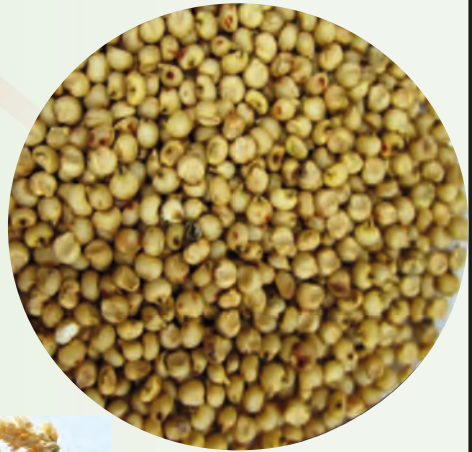
Sorghum (ज्वार)



Botanical name	<i>Sorghum bicolor</i>
Common names	Sorghum, Jowar, Jwari, Cholam, Jonnalalu, Jola, Milo, Egyptian millet
Variety name	TAKPS-5 (Suruchi)
Pedigree	Mutant of GBM-22-6-1
Year of release	2023
Notification	SO No. 1056 (E) dt 06.03.2023
Recommended region	Maharashtra
Suitable season	Rabi
Duration	90 days
Salient features	Hurda variety, early maturing, non-lodging, compact panicles, spongy and sweet grains with better flavor and shelf life
Collaborating Institute	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra



Grain Sorghum
TRJP 1-5
(SPV-2538)



Sorghum (ज्वार)



Botanical name	<i>Sorghum bicolor</i>
Common names	Sorghum, Jowar, Jwari, Cholam, Jonnalu, Jola, Milo, Egyptian millet
Variety name	TRJP 1-5 (SPV-2538)
Pedigree	Mutant of JP-1-5
Year of release	2023
Notification	SO No. 1056 (E) dt 06.03.2023
Recommended region	Karnataka
Suitable season	Rabi
Duration	110-115 days
Salient features	Synchronized flowering, large seeds, good roti making quality, medium duration, suitable for deep black soils
Collaborating Institute	University of Agricultural Sciences, Raichur, Karnataka



Jute
TKJ-40
(Mahadev)



Jute (पटसन)



Botanical name	<i>Corchorus capsularis</i>
Common names	Jute, Sanal, Patsan, Senabu
Variety name	TKJ-40 (Mahadev)
Pedigree	Selection from a cross between mutants of JRO 632
Year of release	1983
Notification	SO No. 449 (E) dt 08.07.1983
Recommended region	Odisha
Suitable season	Late summer (15 th to 30 th of April)
Duration	125-130 days
Salient features	Photoperiod sensitive, high fibre yield
Collaborating Institute	Jute Research Station, Janjanga, Kendrapara, Odisha

Novel Trombay Mutants Registered with National Bureau of Plant Genetic Resources, New Delhi

Crop/Mutant	Character	Year	INGR. No.
Sorghum			
TAKPS-3	Semicompact, threshable hurda with better taste and flavor	2023	23039
TAKPS-1	High yielding hurda with better sucrose content and organoleptic properties	2023	23038
Wheat			
TAW-33	High seed hardness index	2021	21201
Groundnut			
TGM-51	Funnel leaflet, dwarf plant type	2013	13026
TGM-38	Sub-orbicular leaflet, erect, compact & dwarf plant type	2013	13025
TGM-167	Gibberellin insensitive dominant dwarf	2013	13011
TGM-112	White to light orange flower colour mutation	2011	11058
TG-18A	Large pod and seed	2007	07032
Suppressed branch	Suppressed primary branches and large basal leaflets with gradual reduction	2004	04098
Imparipinnate leaf	Imparipinnate leaves with small leaflets	2004	04097
Small leaf	Dwarf with small leaf size	2004	04041
TGE 1	Early (95 days), foliaceous stipule & high shelling outturn (80%)	2004	04040
TG-18AM	Disease lesion mimic leaf trait	2004	04039
Wild Blackgram			
Trombay wild urid	Source of resistance to bruchid	2010	10133
Sesame			
N-29	Polypetalous corolla	2007	07030
N-129	Mutant with greater initial seedling vigour and tallness	2007	07029
NM-58	Non-lodging due to stiff stem	2005	05018
Sunflower			
Fasciation	Fasciation and more leaves	2004	04100
Sesbania			
TSR-1	Photoperiod insensitive mutant with long vegetative growth (flowers after 60 days of vegetative growth)	2001	01014

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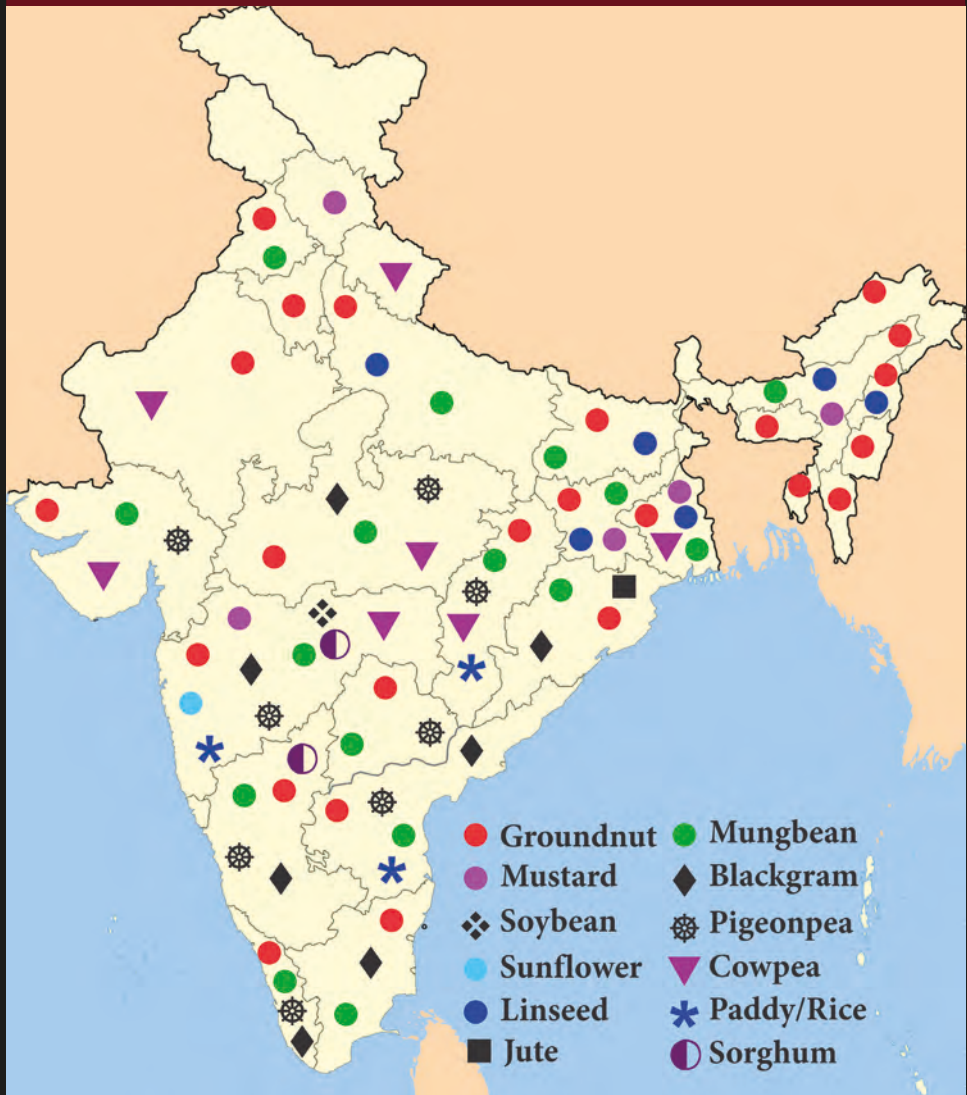
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Pan India Release of Trombay Crop Varieties



For more information, please contact:

Head, Nuclear Agriculture and Biotechnology Division, Bhabha Atomic
Research Centre, Trombay, Mumbai 400 085, Maharashtra,
email: panabtd@barc.gov.in