

# 75 UNIQUE ACCESSIONS UTILIZED IN PLANT VARIETY DEVELOPMENT



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Maize, wheat, cucumber, maize, soybean, wheat, rice panicle, seedless variety of grape, spikes of pearl millet (clockwise) and pea diversity (centre)

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डॉ. हिमांशु पाठक

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## Foreword

ICAR-National Bureau of Plant Genetic Resources (NBPGR) plays a crucial role in harnessing the potential of plant genetic resources for crop improvement and addressing the multifaceted challenges facing Indian agriculture. By promoting collaboration, data sharing, and strategic utilization of genetic diversity, ICAR-NBPGR contributes to the resilience, sustainability, and productivity of India's agricultural sector. ICAR-NBPGR is the nodal organization with the mandate to plan, conduct, promote and coordinate the activities concerning plant genetic resources management including characterization, evaluation, and utilization. The institute has effective linkages with crop-based Institutes, Project Directorates, AICRPs and State Agricultural Universities (SAUs) for evaluation and utilization of plant germplasm under the National Agricultural Research System (NARS). The institute has taken an initiative to compile the information on utilization of plant genetic resources in crop improvement through a broad-based enabling approach.

ICAR-NBPGR has brought out a monograph entitled “**75 Unique Accessions Utilized in Plant Variety Development**” to commemorate the 75 years of independence. I congratulate the authors and the staff of ICAR-NBPGR for their valuable contribution in bringing out this publication. It will help in creating awareness for the importance of germplasm utilization among academicians and researchers in the country.

(Himanshu Pathak)

23<sup>rd</sup> February, 2024  
New Delhi



# PREFACE

Diversity among the living entities is important for sustainability of life on the earth because the genetic uniformity leads to genetic vulnerability. The power of genes and germplasm has been amply unveiled and demonstrated by the success of high yielding, nutritionally superior and biotic/abiotic resistant varieties in serving the global population. Germplasm accessions are the weapons in the arsenal of humankind for breeding new varieties to confront the challenges of hunger, malnutrition, climate change and shrinking natural resources for sustenance. There is inter-dependence of countries for sharing and utilization of germplasm for agricultural purposes. As exemplified by the contribution of semi dwarf genes in rice and wheat in bringing about green revolution, even a single gene can shape the destiny of entire humankind. Therefore, continuous research for trait discovery and utilization of PGRs to develop high yielding, nutritionally rich and abiotic and biotic stress tolerant/resistant varieties are essentially required to meet the varied needs from time to time. Especially for combating biotic pressures through plant resistance, the discovery and deployment of new resistance genes are essentially required to counter the newly evolving strains of diseases and pests. Ever since its inception, ICAR-NBPGR has played a pivotal role in collecting indigenous germplasm and acquisition of plant genetic resources from other countries followed by their conservation, documentation, evaluation for trait discovery and sharing with plant breeders to facilitate their use in crop improvement programme throughout the country.

The development of superior varieties by the accumulation of beneficial alleles from the vast pool of plant genetic resources is a major challenge. It is also worth mentioning that ICAR-NBPGR through the network of its regional stations and NAGS is regularly characterizing and evaluating the national genebank accessions through different programmes. Germplasm field days are often organized to demonstrate the live variability and facilitate the selection of elite accessions by the breeders. Joint evaluation and sharing of trait specific germplasm have resulted into successful utilization of germplasm in Indian plant breeding programme. To commemorate the seventy-five years of independence, *75<sup>th</sup> Azadi Ka Amrit Mahotsav*, we have documented the utilization of 75 unique germplasm accessions of different crop plants for development and release of 75 improved varieties for different agro climatic zones of the country.

(Authors)



# INTRODUCTION

Plant genetic resources provide varied options to develop more productive plant varieties through selection and breeding, that are resistant to virulent pests and diseases and adapted to changing environments. Thus, they play a major role in boosting crop production by utilizing trait-specific germplasm through introgression into elite lines, allele mining, wide crossing, molecular marker-assisted breeding etc. During the last decade, ICAR-National Bureau of Plant Genetic Resources (NBPGR) along with national partners has taken up initiatives to characterize genebank material of prioritized crops for various economically important traits and also for identification of novel genes/ alleles through various national and international programs. Under a multi-location evaluation programme, ICAR- National Bureau of Plant Genetic Resources along with its national collaborators has identified trait-specific germplasm in prioritized crops namely, rice, wheat, maize, chickpea, pigeonpea, mustard, okra, etc. The information on the identification of trait-specific germplasm is available on the NBPGR website. Also, the PGR portal comprising passport as well as characterization data is available for the researchers. Recently DBT-funded Network Projects involving collaboration of national and international partners, large-scale characterization and evaluation are being undertaken for rice, wheat, minor pulses, minor oilseed crops, and potential crops such as ricebean and amaranth for mainstreaming germplasm diversity for productivity enhancement and sustainability through genomics assisted core development and trait discovery.

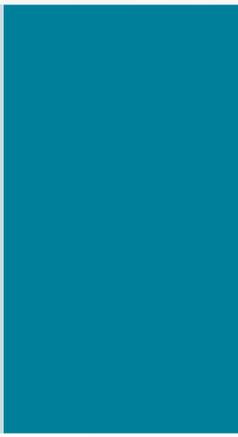
The detailed evaluation of germplasm conserved in the national genebank has resulted in the development of trait-specific reference sets and identification of donor germplasm in various crop plants. Also, novel sources of resistance from crop wild relatives (CWRs) of different crops were also identified. For example, Yellow Vein Mosaic Virus (YVMV) and Enation Leaf Curl Virus (ELCV) tolerance in wild okra (*Abelmoschus manihot*, *A. tetraphyllus cv pungens*, *A. enbeepegarenses*, *A. angulosus var grandiflorus* and *A. moshatus var. tuberosus*) and downy mildew tolerance in *Cucumis hardwickii*, a wild relative of cucumber have been identified. In addition, MYMV tolerance in crop wild relatives of crops of Vigna group (*Vigna sublobata*, *V. hainiana*, *V. silvestris*) has been identified. Similarly, some of the value rich accessions are identified for quality parameters and agronomic traits which have been registered by Plant Germplasm Registration Committee (PGRC) of ICAR. These trait specific accessions of different crops are available for their use in crop improvement programmes.

Well-characterized and evaluated germplasm collection would have greater chances of contributing to the development of new high-yielding varieties, resulting in the realization of greater benefits. Indigenous genetic resources including landraces and wild relatives have been utilized comparatively less than exotic germplasm thus, further requiring exploitation of the largely untapped sources of genetic diversity. These valuable genetic resources can cater to emerging needs and contribute to climate change adaptation as they possess trait(s) critical for crops becoming more resilient and adaptive under the changing environmental conditions. Further, utilization of germplasm to a larger extent by the breeders depends upon the availability of proper documentation of the genetic resources and a strong germplasm enhancement programme. Genomic tools have the potential for contributing toward improved conservation and use of plant genetic resources.

The development of superior varieties by the accumulation of beneficial alleles from the vast pool of plant genetic resources is a major challenge. However Indian plant breeding programme has successfully utilized the germplasm of some major crops in India in varietal development either through direct use or indirectly through a conventional breeding programme. To celebrate the 75<sup>th</sup> *Azadi Ka Amrit Mahotsav*, we have compiled 75 germplasm accessions which have been used either directly or as donor for the development and release of 75 varieties of different crops in India.



**CEREALS  
and PSEUDO  
CEREALS**





## Rice (*Oryza sativa* L.)

Nagina 22	
Variety Developed	
Name of variety (Other Id.)	Nagina 22 (N-22)
Year of release/ notification	1978
Institute/ organisation	GBPUA&T, Pantnagar
Released through CVRC/ SVRC	SVRC
States for which notified	Uttar Pradesh
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC142551
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Pithoragarh, Uttarakhand
Biological status	Landrace
Local name/ Alternate identity	Rajbhog
Salient features, if any	Scented

Gazette Notification no.: S.O. 13, Dated: 19.12.1978, Govt. of India

## Rice (*Oryza sativa* L.)

Janaki	
Variety Developed	
Name of variety (Other Id)	Janaki
Year of release/notification	1985
Institute/organisation	RPCAU, Samastipur, Bihar
Released through CVRC/ SVRC	SVRC
States for which notified	Bihar
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC443834
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Jammu
Biological status	Local variety
Local name/ Alternate identity	Chenab rice (SKAU 23)
Salient features, if any	-

Gazette Notification no.: S.O. 295 (E), Dated: 9.4.1985, Govt. of India

## Rice (*Oryza sativa* L.)

Intan	
Variety Developed	
Name of variety (Other Id)	Intan
Year of release/notification	1992
Institute/organisation	UAS, RARS, Mandya
Released through CVRC/ SVRC	SVRC
States for which notified	Karnataka
Breeding method	Introduction and selection
Germplasm utilized	
Accession number	EC412645
Indigenous or Exotic	Exotic
If exotic, the source institute/country	IRRI, Philippines
Biological status	Variety
Local name/ Alternate identity	Intan
Salient features, if any	Semi dwarf

Gazette Notification no.: S. O. 860 (E), Dated: 25.11.1992, Govt. of India

## Rice (*Oryza sativa* L.)

Maruteru Sannalu	
Variety Developed	
Name of variety (Other Id)	Maruteru Sannalu (MTU-1006)
Year of release/notification	1997
Institute/ organisation	ANGRAU, RARS, Maruteru (Andhra Pradesh)
Released through CVRC/ SVRC	SVRC
States for which notified	Rainfed Upland Irrigated areas of Andhra Pradesh
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC547072
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Samarilli, Srikakulam District, Andhra Pradesh
Biological status	Landrace
Local name/ Alternate identity	SM-3144
Salient features, if any	-

Gazette Notification No.: S.O. 821 (E), Dated: 13. 9. 2000, Govt. of India

## Rice (*Oryza sativa* L.)

Palam Lal Dhan	
Variety Developed	
Name of variety (Other Id)	Palam Lal Dhan (HPR 2720)
Year of release/notification	2019
Institute/organisation	CSK HPKV, Palampur
Released through CVRC/ SVRC	SVRC
States for which notified	Suitable for irrigated areas of mid hills of Himachal Pradesh
Breeding method	Selection
Germplasm utilized	
Accession number	IC455333
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Himachal Pradesh
Biological status	Landrace
Local name/ Alternate identity	Begmi (NCS1146)
Salient features, if any	Red coloured seed coat

Gazette Notification no.: S.O. 3220 (E), Dated: 5. 9. 2019, Govt. of India

## Wheat (*Triticum aestivum* L.)

Kharchia 65	
Variety Developed	
Name of variety (Other Id)	Kharchia 65
Year of release/ notification	1970
Institute/organisation	RARI, Durgapura, Jaipur
Released through CVRC/ SVRC	CVRC
States for which notified	Well adapted to the saline areas
Breeding method	Hybridization and selection (Kharchia Local/ EG 953)
Germplasm utilized	
Accession number	IC296742
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Pali, Rajasthan
Biological status	Landrace
Local name/ Alternate identity	Kharchia local
Salient features, if any	Tall and salt tolerant

Gazette Notification No.: S.O. 716 (E), Dated: 20. 2. 1970, Govt. of India

## Wheat (*Triticum aestivum* L.)

KRL 1-4	
Variety Developed	
Name of variety (Other Id)	KRL 1- 4
Year of release/ notification	1990
Institute/organisation	ICAR-CSSRI, Karnal
Released through CVRC/ SVRC	CVRC
States for which notified	Adapted to the saline area of the country
Breeding method	Hybridization and selection (Kharchia Local/ EG 953)/ WL711
Germplasm utilized	
Accession number	IC296742
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Pali, Rajasthan
Biological status	Landrace
Local name/ Alternate identity	Kharchia local
Salient features, if any	Tall and salt tolerant

Gazette Notification No.: S.O. 386 (E), Dated: 15.5.1990, Govt. of India

## Maize (*Zea mays* L.)

Jawahar Makka-216	
Variety Developed	
Name of variety (Other Id)	Jawahar Makka-216
Year of release/ notification	2004
Institute/organisation	JNKVV,ZARS, Chhindwara, Madhya Pradesh
Released through CVRC/ SVRC	SVRC
States for which notified	Madhya Pradesh
Breeding method	Selection
Germplasm utilized	
Accession number	IC282306
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Ambikapur, Madhya Pradesh
Biological status	Landrace
Local name/ Alternate identity	H216
Salient features, if any	

Gazette Notification No.: S.O. 161 (E), Dated: 4. 2. 2004, Govt. of India

## Grain Amaranth (*Amaranthus hypochondriacus* L.)

Durga	
Variety Developed	
Name of variety (Other Id)	Durga
Year of release/notification	2006
Institute/ organisation	ICAR-NBPGR, RS, Shimla
Released through CVRC/ SVRC	CVRC
States for which notified	North west hill zone comprising states of Himachal Pradesh, Uttaranchal and Jammu & Kashmir
Breeding method	Selection
Germplasm utilized	
Accession number (Alternate Id.)	IC35407
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Akola, Maharashtra
Biological status	Landrace
Local name/ Alternate identity	NIC22535
Salient features, if any	Tall and tolerant to lodging. Moderately resistant to shattering

Gazette Notification No.: S.O. 599 (E), Dated: 25. 4. 2006, Govt. of India

## Buckwheat (*Fagopyrum tataricum* L. Gaertn.)

Himgiri	
Variety Developed	
Name of variety (Other Id)	Himgiri
Year of release/notification	2006
Institute/organisation	ICAR-NBPGR, RS, Shimla
Released through CVRC/ SVRC	CVRC
States for which notified	HP and J&K (Dry temperate region) for medium to low input conditions
Breeding method	Selection
Germplasm utilized	
Accession number	EC321798
Indigenous or Exotic	Exotic
If Exotic, source institute/ country	Tapioszele, Hungary
Biological status	Germplasm
Local name/ Alternate identity	VIII-92-26 (570) Local
Salient features, if any	-

Gazette Notification No.: S.O. 599 (E), Dated: 25. 4. 2006, Govt. of India

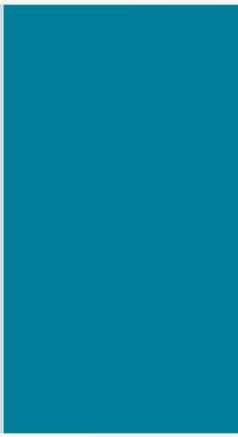
## Grain Chenopod (*Chenopodium album* L.)

Him Bathua	
Variety Developed	
Name of variety (Other Id)	Him Bathua
Year of release/notification	2013
Institute/organisation	ICAR-NBPGR RS, Shimla
Released through CVRC/ SVRC	SVRC
States for which notified	High hill and dry temperate zone of Himachal Pradesh
Breeding method	Selection
Germplasm utilized	
Accession number	IC415477
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Kinnaur, Himachal Pradesh
Biological status	Landrace
Local name/ Alternate identity	KP/AK-157
Salient features, if any	Dual type Good source of protein and vitamins





# **MILLETS and FORAGES**





## Sorghum (*Sorghum bicolor* (L.) Moench. )

Parbhani Moti	
Variety Developed	
Name of variety (Other Id)	Parbhani Moti
Year of release/notification	2002
Institute/organisation	Sorghum Research Station, Marathawada Agricultural University, Parbhani, Maharashtra
Released through CVRC/ SVRC	SVRC
States for which notified	<i>Rabi</i> sorghum growing areas of Maharashtra
Breeding method	Selection
Germplasm utilized	
Accession number	IC102161
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Hyderabad, Telangana
Biological status	Germplasm
Local name/ Alternate identity	GSS-194
Salient features, if any	

Gazette Notification no.: S. O. 122 (E), Dated: 02.02.2005, Govt. of India

## Pearl Millet (*Pennisetum glaucum* (L) R. Br.)

### Avika Bajra Chari (AVKS-19)

#### Variety Developed

Name of variety (Other Id)	Avika Bajra Chari (AVKS-19)
Year of release/notification	2009
Institute/organisation	ICAR-IGFRI, Jhansi
Released through CVRC/ SVRC	CVRC
States for which notified	Uttar Pradesh, Rajasthan, Haryana, Punjab and Tarai of Uttarakhand
Breeding method	Selection

#### Germplasm utilized

Accession number	IC384993
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Nagore, Rajasthan
Biological status	Landrace
Local name/ Alternate identity	Bajri
Salient features, if any	Dual purpose

Gazette Notification no.: S. O. 2187 (E), Dated: 27.8.2009, Govt. of India

## Finger Millet (*Eleusine coracana* (L.) Gaertn.)

Indira Ragi 1	
Variety Developed	
Name of variety (Other Id)	Indira Ragi 1 (BR-7)
Year of release/notification	2012
Institute/organisation	IGKV, Jagdalpur
Released through CVRC/ SVRC	SVRC
States for which notified	Chattisgarh
Breeding method	Selection
Germplasm utilized	
Accession number	IC475834
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	
Biological status	Landrace
Local name/ Alternate identity	GE-669
Salient features, if any	Non-lodging and Non- shattering

Gazette Notification no.: S.O. 2125 (E), Dated: 10.9.2012, Govt. of India

## Foxtail Millet (*Setaria italica* (L.) P.Beauv.)

GPUF-3	
Variety Developed	
Name of variety (Other Id)	GPUF-3
Year of release/notification	2020
Institute/organisation	UAS, Bangalore
Released through CVRC/ SVRC	SVRC
States for which notified	Karnataka
Breeding method	Selection
Germplasm utilized	
Accession number	IC479864
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	
Biological status	Germplasm
Local name/ Alternate identity	GS-744
Salient features, if any	-

## Anjan grass (*Cenchrus ciliaris* L.)

Bundel Anjan-3	
Variety Developed	
Name of variety (Other Id)	Bundel Anjan-3 (IGFRI-727)
Year of release/ notification	2006
Institute/ organisation	ICAR- IGFRI, Jhansi
Released through CVRC/ SVRC	CVRC
States for which notified	Recommended for release for cultivation throughout the growing regions of India
Breeding method	Intra-population selection
Germplasm utilized	
Accession number	EC397692
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	United Kingdom
Biological status	Population
Local name/ Alternate identity	ABY 4637
Salient features, if any	-

Gazette Notification no.: S.O. 599 (E), Dated: 25. 4. 2006, Govt. of India

## Anjan grass (*Cenchrus ciliaris* L.)

CAZRI Anjan 2178	
Variety Developed	
Name of variety (Other Id)	CAZRI Anjan 2178
Year of release/ notification	2018
Institute/ organisation	ICAR-CAZRI, Jodhpur
Released through CVRC/ SVRC	SVRC
States for which notified	Rajasthan
Breeding method	Clonal selection
Germplasm utilized	
Accession number	IC198632
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Barmer, Rajasthan
Biological status	Wild population
Local name/ Alternate identity	DCB/MPR-2241
Salient features, if any	-

Gazette Notification no.: S.O. 1379 (E), Dated: 27.3. 2018, Govt. of India

## Fodder Oat (*Avena sativa* L.)

Bundel Jai 2012-2	
Variety Developed	
Name of variety (Other Id)	Bundel Jai 2012-2 (JHO-2012-2)
Year of release/ notification	2017
Institute/organisation	ICAR- IGFRI, Jhansi
Released through CVRC/ SVRC	CVRC
States for which notified	Andhra Pradesh, Karnataka and Tamil Nadu
Breeding method	Single plant selection
Germplasm utilized	
Accession number	EC498707
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Belgium
Biological status	Population
Local name/ Alternate identity	6G-752
Salient features, if any	-

## Fodder Oat (*Avena sativa* L.)

Bundel Jai-2009-1	
Variety Developed	
Name of variety (Other Id)	Bundel Jai-2009-1 (JHO-2009-1)
Year of release/notification	2016
Institute/organisation	ICAR-IGFRI, Jhansi
Released through CVRC/ SVRC	CVRC
States for which notified	Central India
Breeding method	Single plant selection
Germplasm utilized	
Accession number	EC425113
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	UK
Biological status	Other
Local name/ Alternate identity	11714
Salient features, if any	-

Gazette Notification no.: S.O. 3540 (E), Dated: 22.11. 2016, Govt. of India

## Guinea Grass (*Panicum maximum* Jacq.)

Bundel Guinea-2	
Variety Developed	
Name of variety (Other Id)	Bundel Guinea-2 (JHGG-04-1)
Year of release/notification	2009
Institute/organisation	ICAR-IGFRI, Jhansi
Released through CVRC/ SVRC	CVRC
States for which notified	All India cultivation in humid, arid, tropical and sub-tropical areas as a perennial crop
Breeding method	Selection
Germplasm utilized	
Accession number	EC400533
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Ethiopia
Biological status	Germplasm
Local name/ Alternate identity	13408/IG97-3
Salient features, if any	Perennial type

Gazette Notification no.: S.O. 449 (E), Dated: 11. 2. 2009, Govt. of India

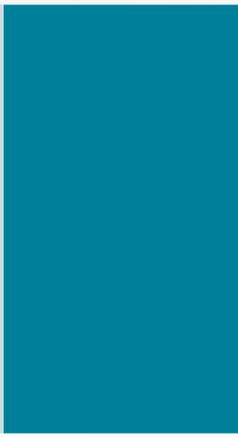
## Guinea Grass (*Panicum maximum* Jacq.)

DGG1(Dharwad Guinea Grass-1)	
Variety Developed	
Name of variety (Other Id)	Dharwad Guinea Grass-1 (DGG1)
Year of release/notification	2016
Institute/organisation	ICAR-IGFRI, Jhansi
Released through CVRC/ SVRC	CVRC
States for which notified	All India
Breeding method	Selection
Germplasm utilized	
Accession number	IC558122
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Palladam, Coimbatore,Tamil Nadu
Biological status	Germplasm
Local name/ Alternate identity	IG 06-53
Salient features, if any	Apomictic and propagated through root slips and seeds

Gazette Notification no.: S.O. 3540 (E), Dated: 22.11.2016, Govt. of India



**LEGUMES  
and PULSES**





## Mungbean (*Vigna radiata* L. Wilczek)

IPM 02-14	
Variety Developed	
Name of variety (Other Id)	IPM 02-14
Year of release/notification	2011
Institute/organisation	ICAR-IIPR, Kanpur
Released through CVRC/ SVRC	CVRC
States for which notified	Tamil Nadu, Andhra Pradesh, Karnataka and Odisha in Summer Season.
Breeding method	Hybridization (PDM 139 x EC398884)
Germplasm utilized	
Accession number	EC398884
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Thailand
Biological status	Germplasm
Local name/ Alternate identity	VC 6173B-10
Salient features, if any	High seed weight (7.8g) and pod length (11.2cm)

Gazette Notification no.: S.O. 1661 (E), Dated: 20.07.2011 , Govt. of India

## Mungbean (*Vigna radiata* L. Wilczek)

Kanika	
Variety Developed	
Name of variety (Other Id)	Kanika (IPM 302-2)
Year of release/notification	2018
Institute/organisation	ICAR-IIPR, Kanpur
Released through CVRC/ SVRC	CVRC
States for which notified	Uttar Pradesh
Breeding method	Hybridization and selection (PM 4 x EC398897)
Germplasm utilized	
Accession number	EC398897
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Thailand
Biological status	Variety
Local name/ Alternate identity	V 2802
Salient features, if any	-

Gazette Notification no.: S.O.5077(E) Dated: 26.12.2018, Govt. of India

## Fieldpea (*Pisum sativum* L.)

Uttra	
Variety Developed	
Name of variety (Other Id)	Uttra (HFP 8909)
Year of release/notification	1996
Institute/organisation	CCSHAU, Hisar
Released through CVRC/ SVRC	CVRC
States for which notified	Punjab, Haryana, Rajasthan, Uttar Pradesh
Breeding method	Hybridization and selection (EC109185 x HFP 4)
Germplasm utilized	
Accession number	EC109185
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	United Kingdom
Biological status	Germplasm
Local name/ Alternate identity	4386-72/9-11
Salient features, if any	Powdery mildew tolerant

Gazette Notification no.: S.O. 360(E), Dated: 01.5.1997, Govt. of India

## Cowpea (*Vigna unguiculata*)

EC4216	
Variety Developed	
Name of variety (Other Id)	EC4216
Year of release/notification	1978
Institute/organisation	IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	Adapted to the cowpea growing areas in the country
Breeding method	Selection
Germplasm utilized	
Accession number	EC4216
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USDA, USA
Biological status	Germplasm
Local name/ Alternate identity	
Salient features, if any	Bacterial canker resistance

Gazette Notification no.: S.O. 13, Dated: 19.12.1978, Govt. of India

## Cowpea (*Vigna unguiculata* (L.) Walp.)

<b>Anaswara</b>	
<b>Variety Developed</b>	
Name of variety (Other Id)	Anaswara
Year of release/notification	2002
Institute/organisation	College of Agriculture, KAU, Vellayani, Kerala
Released through CVRC/ SVRC	SVRC
States for which notified	Uplands and homesteads of southern districts of Kerala
Breeding method	Hybridization (EC4216 x Acc. No.10)
<b>Germplasm utilized</b>	
Accession number	EC4216
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USDA, USA
Biological status	Germplasm
Local name/ Alternate identity	
Salient features, if any	Bacterial canker resistance

Gazette Notification no.: S.O.597 (E), Dated: 25.4.2006, Govt. of India

## Rajmash (*Phaseolus vulgaris* L.)

Arun	
Variety Developed	
Name of variety (Other Id)	Arun (IPR 98-3-1)
Year of release/notification	2007
Institute/organisation	ICAR-IIPR, Kanpur
Released through CVRC/ SVRC	CVRC
States for which notified	Uttar Pradesh
Breeding method	Selection
Germplasm utilized	
Accession number	EC400418
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Bolivia
Biological status	Germplasm
Local name/ Alternate identity	AFR702
Salient features, if any	Tolerant to BCMV

Gazette Notification no.: S.O.1178 (E), Dated: 20.07.2007, Govt. of India

## Ricebean (*Vigna umbellata* (Thunb.) Ohwi & Ohashi)

Bidhan Ricebean 3	
Variety Developed	
Name of variety (Other Id)	Bidhan Ricebean 3
Year of release/notification	2016
Institute/organisation	BCKV, Kalyani, West Bengal
Released through CVRC/ SVRC	CVRC
States for which notified	Jharkhand, West Bengal, Odisha, Assam, Manipur and Kerala
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC545622
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Tengnaupal, Manipur
Biological status	Local variety
Local name/ Alternate identity	Gaimung (KRB-19)
Salient features, if any	-

Gazette Notification no.: S.O. 3540 (E), Dated: 20.11.2016, Govt. of India

## Ricebean (*Vigna umbellata* (Thunb.) Ohwi & Ohashi)

Himshakti	
Variety Developed	
Name of variety (Other Id)	Himshakti (VRB-3)
Year of release/notification	2013
Institute/organisation	ICAR- NBPGR RS, Shimla & ICAR- VPKAS, Almora
Released through CVRC/ SVRC	CVRC
States for which notified	Mid hills of the states of HP, Uttarakhand, Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura
Breeding method	Single plant selection
Germplasm utilized	
Accession number	IC538080
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Simiya, Champawat, Uttarakhand
Biological status	Traditional cultivar
Local name/ Alternate identity	Safed mash
Salient features, if any	White and bold seeded

## Winged bean (*Psophocarpus tetragonolobus* L.)

AKWB-1	
Variety Developed	
Name of variety (Other Id)	AKWB-1
Year of release/notification	1991
Institute/organisation	ICAR-NBPGR RS, Akola
Released through CVRC/ SVRC	CVRC
States for which notified	Winged bean growing areas of the country
Breeding method	Selection
Germplasm utilized	
Accession number	EC114273
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Papua New Guinea
Biological status	Landrace
Local name/ Alternate identity	Chimbu
Salient features, if any	Long pod length

Gazette Notification no.: S.O.527 (E), Dated: 16.8.1991, Govt. of India

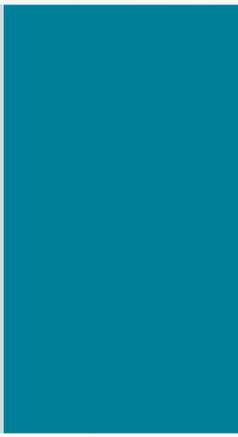
## Egyptian clover (*Trifolium alexandrinum* L.)

Bundel Berseem Single Cut-1	
Variety Developed	
Name of variety (Other Id)	Bundel Berseem Single Cut-1 (JBSC-1)
Year of release/notification	2017
Institute/organisation	ICAR-IGFRI, Jhansi
Released through CVRC/ SVRC	CVRC
States for which notified	Haryana, Punjab, Delhi, Uttar Pradesh, Madhya Pradesh during kharif season under irrigated condition
Breeding method	Recurrent selection
Germplasm utilized	
Accession number	EC318954
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Italy
Biological status	Landrace
Local name/ Alternate identity	Tabor
Salient features, if any	-

Gazette Notification no.: S.O. 6318(E), Dated:26.12.2018, Govt. of India



**OILSEEDS**





## Soybean (*Glycine max* (L.) Merr.)

Type 49	
Variety Developed	
Name of variety (Other Id)	TYPE 49
Year of release/notification	1978
Institute/organisation	ICAR-IISR, Indore
Released through CVRC/ SVRC	CVRC
States for which notified	Northern hill zone
Breeding method	Hybridization
Germplasm utilized	
Accession number	EC16695
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USDA, USA
Biological status others/ unknown	Variety
Local name/ Alternate identity	Lee/ D49-2524
Salient features, if any	Salt tolerant

Gazette Notification no.: S.O. 13(E), Dated: 19.12.1978, Govt. of India

## Soybean (*Glycine max* (L.) Merr.)

KHSB 2	
Variety Developed	
Name of variety (Other Id)	KHSB2
Year of release/notification	1982
Institute/organisation	GBPUA&T, Pantnagar
Released through CVRC/ SVRC	CVRC
States for which notified	All soybean growing states
Breeding method	Hybridization (MAMLOXI x EC 39821)
Germplasm utilized	
Accession number	EC39821
Indigenous or Exotic	Exotic
If exotic, the source institute/country	Thailand
Biological status	Germplasm
Local name/ Alternate identity	-
Salient features, if any	-

Gazette Notification no.: S.O.19 (E), Dated: 14.01.1982, Govt. of India

## Soybean (*Glycine max* (L.) Merr.)

Pant Soybean 416	
Variety Developed	
Name of variety (Other Id)	Pant Soybean 416 (PK- 416)
Year of release/notification	1986
Institute/organisation	GBPUA&T, Pantnagar
Released through CVRC/ SVRC	CVRC
States for which notified	All soybean growing states
Breeding method	Hybridization (Hampton X EC7034)
Germplasm utilized	
Accession number	EC7034
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	CSIRO, Australia
Biological status others/ unknown	Variety
Local name/ Alternate identity	C.N.S
Salient features, if any	Good combiner for yield traits

Gazette Notification no.:S.O.258 (E), Dated: 14.5.1986, Govt. of India

## Sunflower (*Helianthus annuus* L. )

SS-56	
Variety Developed	
Name of variety (Other Id)	SS-56
Year of release/notification	1994
Institute/organisation	MPKV, Rahuri (Maharashtra)
Released through CVRC/ SVRC	CVRC
States for which notified	Dryland areas of Maharashtra
Breeding method	Introduction and Selection
Germplasm utilized	
Accession number	EC100106
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Leningrad, USSR
Biological status	Variety
Local name/ Alternate identity	Armavirskij 3497
Salient features, if any	-

Gazette Notification no.:S.O.636 (E), Dated: 2.9.1994, Govt. of India

## Sunflower (*Helianthus annuus* L.)

CO 4	
Variety Developed	
Name of variety (Other Id)	CO 4 (TNAU-SUF-7)
Year of release/notification	1995
Institute/organisation	TNAU, Coimbatore
Released through CVRC/ SVRC	CVRC
States for which notified	Sunflower growing states of the country
Breeding method	Hybridization (EC4182 x Surya)
Germplasm utilized	
Accession number	EC4182
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Indiana, USA
Biological status	Breeding line
Local name/ Alternate identity	Maj Deteja
Salient features, if any	Dwarf

Gazette Notification no.:S.O.408 (E), Dated: 04.5.1995, Govt. of India

## Sunflower (*Helianthus annuus* L. )

Gujarat Sunflower-1	
Variety Developed	
Name of variety (Other Id)	Gujarat Sunflower-1 (GAUSUF-15)
Year of release/notification	1993
Institute/organisation	AICRP on Sunflower, JAU, Amreli, Gujarat
Released through CVRC/ SVRC	CVRC
States for which notified	All states of India
Breeding method	Mutation and Selection
Germplasm utilized	
Accession number	EC68414
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Moscow, USSR
Biological status	Variety
Local name/ Alternate identity	Para-dovik
Salient features, if any	Medium maturity

Gazette Notification no.: 408 (E), Dated: 04.5.1995, Govt. of India

## Sunflower (*Helianthus annuus* L.)

LS-11	
Variety Developed	
Name of variety (Other Id)	LS-11 (Sidheswar)
Year of release/notification	1999
Institute/organisation	Oilseeds Research Station, MAU, Parbhani, Maharashtra
Released through CVRC/ SVRC	CVRC
States for which notified	Maharashtra
Breeding method	Selection
Germplasm utilized	
Accession number	EC689099
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	-
Biological status	Germplasm
Local name/ Alternate identity	-
Salient features, if any	-

Gazette Notification no.:S.O.425 (E), Dated: 08.6.1999, Govt. of India

## Linseed: (*Linum usitatissimum* L.)

Padmini	
Variety Developed	
Name of variety (Other Id)	Padmini (LMH-62)
Year of release/notification	1999
Institute/organisation	CSAUA&T, Kanpur
Released through CVRC/ SVRC	CVRC
States for which notified	Bundelkhand of Uttar Pradesh, Madhya Pradesh, Maharashtra, Rajasthan, Orissa and Karnataka
Breeding method	Hybridization (EC41628/EC77959//DPL-20/ Neelum)
Germplasm utilized	
Accession number	EC41628
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Argentina
Biological status	Variety
Local name/ Alternate identity	PONE 1105/65
Salient features, if any	Monogenic resistance against wilt, rust and powdery mildew

Gazette Notification no.:S.O.1050 (E), Dated: 26.10.1999, Govt. of India

## Linseed (*Linum usitatissimum* L.)

Parvati	
Variety Developed	
Name of variety (Other Id)	Parvati (LMH 16-5)
Year of release/notification	2001
Institute/organisation	CSAUA&T, Kanpur
Released through CVRC/ SVRC	CVRC
States for which notified	Uttar Pradesh, Bihar, West Bengal, Assam and Rajasthan (Kota command area)
Breeding method	Hybridization between two double crosses EC41628/EC77959 // (DPL-20/NEELUM) /// EC-216/HIRA// BR-1/NP-440
Germplasm utilized	
Accession number	EC77959
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	CI 2063
Salient features, if any	Resistant to powdery mildew

Gazette Notification no.:S.O.92 (E), Dated: 02.02.2001, Govt. of India

## Linseed (*Linum usitatissimum* L.)

Shekhar	
Variety Developed	
Name of variety (Other Id)	Shekhar (LCK 9313)
Year of release/notification	2001
Institute/organisation	CSAUA&T, Kanpur
Released through CVRC/ SVRC	CVRC
States for which notified	Uttar Pradesh (excluding Bundelkhand), Bihar, West Bengal and Assam (Rainfed and Irrigated condition)
Breeding method	Hybridization and selection (Laxmi 27 X EC1387)
Germplasm utilized	
Accession number	EC1387
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Australia
Biological status : others/ unknown	Variety
Local name/ Alternate identity	W 7027 CC-6
Salient features, if any	-

Gazette Notification no.: S.O. 92 (E), Dated: 02.02.2001, Govt. of India

## Linseed (*Linum usitatissimum* L.)

Jawahar Linseed-23	
Variety Developed	
Name of variety (Other Id)	Jawahar Linseed-23 (SPS-23-10)
Year of release/notification	1985
Institute/organisation	JNKVV, Jabalpur
Released through CVRC/ SVRC	CVRC
States for which notified	Madhya Pradesh, Uttar Pradesh, Maharashtra, Orissa and Karnataka
Breeding method	Hybridization and selection (EC9832 X Hira)
Germplasm utilized	
Accession number	EC9832
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Leningrad, USSR
Biological status : others/ unknown	Variety
Local name/ Alternate identity	Buharsky (32 K-5835)
Salient features, if any	Powdery mildew resistant

Gazette Notification no. : 540 (E), Dated: 24.07.1985, Govt. of India

## Linseed (*Linum usitatissimum* L.)

Gaurav	
Variety Developed	
Name of variety (Other Id)	Gaurav (LCK-152)
Year of release/notification	1987
Institute/organisation	CSAUA&T, Kanpur
Released through CVRC/ SVRC	CVRC
States for which notified	Linseed growing states
Breeding method	Hybridization and selection (Selection 3 X EC1552)
Germplasm utilized	
Accession number	EC1552
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Argentina
Biological status	Germplasm
Local name/ Alternate identity	Poblacum Facultad CI-92
Salient features, if any	-

Gazette Notification no.: S.O. 834 (E), Dated: 18.09.1987, Govt. of India

## Linseed (*Linum usitatissimum* L.)

Baner	
Variety Developed	
Name of variety (Other Id)	Baner KL-224
Year of release/ notification	2005
Institute/ organisation	CSK HPKV, Palampur
Released through CVRC/ SVRC	CVRC
States for which notified	Himachal Pradesh, Punjab, Haryana and J& K under utera condition
Breeding method	Hybridization and selection (EC21741 X LC- 216)
Germplasm utilized	
Accession number	EC21741
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Czech Republic
Biological status : others/ unknown	Germplasm
Local name/ Alternate identity	Sumperskyzdar
Salient features, if any	-

Gazette Notification no.: S.O.1177 (E), Dated 25.08.2005, Govt. of India

## Groundnut (*Arachis hypogaea* L.)

JL-24	
Variety Developed	
Name of variety (Other Id)	JL-24
Year of release/ notification	1984
Institute/ organisation	MPKV, Rahuri
Released through CVRC/ SVRC	CVRC
States for which notified	Maharashtra
Breeding method	Selection
Germplasm utilized	
Accession number	EC94942
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Germplasm
Local name/ Alternate identity	Tainan 9
Salient features, if any	-

Gazette Notification no.: S.O.596 (E), Dated 13.08.1984, Govt. of India

## Indian mustard (*Brassica juncea* L.)

Giriraj	
Variety developed	
Name of variety (Other Id)	Giriraj (DRMRIJ 31)
Year of release/notification	2013
Institute/organisation	DRMR, Bharatpur
Released through CVRC/ SVRC	CVRC
States for which notified	Timely sown irrigated conditions of Rajasthan and Haryana
Breeding method	Hybridization and selection (ZEM-2/Pusa Barani)// EC287711
Germplasm utilized	
Accession number	EC287711
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Sweden
Biological status	Germplasm
Local name/ Alternate identity	SV-8741736 88-41722
Salient features, if any	Zero erucic acid line

Gazette Notification no.: S.O. 2816 (E), Dated:19.9.2013, Govt. of India

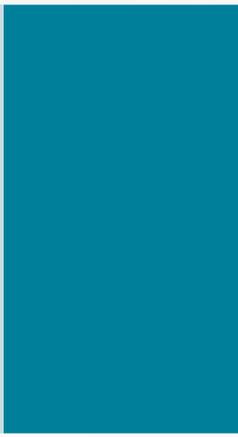
## Sesame (*Sesamum indicum* L.)

Rajeshwari	
Variety Developed	
Name of variety (Other Id)	Rajeshwari
Year of release/notification	1989
Institute/organisation	APAU, RARS, Jagtial, Karimnagar (AP)
Released through CVRC/ SVRC	CVRC
States for which notified	Sesame growing states of the country
Breeding method	Hybridization and selection PB Til No. 1 X EC 4619
Germplasm utilized	
Accession number	EC4619
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USDA, USA
Biological status :	others/ unknown
Local name/ Alternate identity	N-57-2 - Variety
Salient features, if any	-

Gazette Notification no.: S.O. 599 (E), Dated: 31.07.1989, Govt. of India



**VEGETABLE  
CROPS**





## Tomato (*Solanum lycopersicum* L.)

Punjab Chhuhara	
Variety Developed	
Name of variety (Other Id)	Punjab Chhuhara
Year of release/notification	1978
Institute/organisation	PAU, Ludhiana
Released through CVRC/ SVRC	SVRC
States for which notified	Recommended for cultivation throughout the tomato growing regions of country
Breeding method	Hybridization (Punjab Tropic x EC55055)
Germplasm utilized	
Accession number	EC55055
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	
Salient features, if any	

Gazette Notification no.: S.O.13, Dated 19.12.1978, Govt. of India

## Tomato (*Solanum lycopersicum* L.)

Pusa Ruby	
Variety Developed	
Name of variety (Other Id)	Pusa Ruby
Year of release/notification	1985
Institute/organisation	ICAR-IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	Throughout the country in tomato growing areas of the country
Breeding method	Hybridization (Improved Meeruti X Sioux)
Germplasm utilized	
Accession number	EC2682
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Australia
Biological status	Variety
Local name/ Alternate identity	Sioux
Salient features, if any	

Gazette Notification no.: S.O. 540 (E), Dated 24.07.1985, Govt. of India

## Cucumber (*Cucumis sativus* L.)

Poinsette	
Variety Developed	
Name of variety (Other Id)	Poinsette
Year of release/notification	
Institute/organisation	IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	All cucumber growing regions of India
Breeding method	Introduction
Germplasm utilized	
Accession number	EC93231
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	Poinsette (PI 277016)
Salient features, if any	Resistant to downy mildew, powdery mildew, anthracnose and angular leaf spot

## Cucumber (*Cucumis sativus* L. )

Straight Eight	
Variety Developed	
Name of variety (Other Id)	Straight Eight
Year of release/notification	
Institute/organisation	IARI, RS, Katrain (HP)
Released through CVRC/ SVRC	CVRC
States for which notified	Cucumber growing regions of India
Breeding method	Introduction
Germplasm utilized	
Accession number	EC9088
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	Poinsette/ PI 277016
Salient features, if any	Long Green fruits

## Okra (*Abelmoschus esculentus* L. Moench.)

Manjima	
Variety Developed	
Name of variety (Other Id)	Manjima
Year of release/notification	2006
Institute/organisation	KAU, Vellayani
Released through CVRC/ SVRC	SVRC
States for which notified	Central zone of Kerala
Breeding method	Selection
Germplasm utilized	
Accession number	IC282257
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Kalacheri, Kannur, Kerala
Biological status	Local germplasm
Local name/ Alternate identity	V.90/0-53
Salient features, if any	YVMV resistant

## Okra (*Abelmoschus esculentus* L. Moench.)

Salkeerthi	
Variety Developed	
Name of variety (Other Id)	Salkeerthi
Year of release/notification	2005
Institute/organisation	KAU, Vellanikkara
Released through CVRC/ SVRC	SVRC
States for which notified	Central zone of Kerala
Breeding method	Selection
Germplasm utilized	
Accession number	IC470862
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Thrissur, Kerala
Biological status	Local germplasm
Local name/ Alternate identity	-
Salient features, if any	Long fruit

## Okra (*Abelmoschus esculentus* L. Moench.)

Punjab Padmini	
Variety Developed	
Name of variety (Other Id)	Punjab Padmini
Year of release/notification	1983
Institute/organisation	PAU, Ludhiana
Released through CVRC/ SVRC	CVRC
States for which notified	Punjab
Breeding method	Hybridization ( <i>A. esculentus</i> (Reshmi and Pusa Sawani) X <i>A. manihot</i> ssp <i>manihot</i> (EC31830))
Germplasm utilized	
Accession number	EC31830
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Ghana
Biological status	Germplasm
Local name/ Alternate identity	Early red Asunteni koko
Salient features, if any	YVMV resistant

Gazette Notification no.: S.O. 449 (E), Dated 08.07.1983, Govt. of India

## Okra (*Abelmoschus esculentus* L. Moench. )

Pusa Sawani	
Variety Developed	
Name of variety (Other Id)	Pusa Sawani
Year of release/notification	1985
Institute/organisation	IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	All okra growing states of India
Breeding method	Hybridization (Pusa Makhmali X IC1542)
Germplasm utilized	
Accession number	IC1542
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	West Bengal
Biological status	Local germplasm
Local name/ Alternate identity	-
Salient features, if any	Better quality

Gazette Notification no.: S.O.540 (E), Dated 24.07.1985, Govt. of India

## Ridge gourd (*Luffa acutangula* L. )

Pusa Nutan	
Variety Developed	
Name of variety (Other Id)	Pusa Nutan
Year of release/notification	-
Institute/organisation	ICAR-IARI, New Delhi
Released through CVRC/ SVRC	SVRC
States for which notified	Delhi
Breeding method	Selection
Germplasm utilized	
Accession number	IC331162
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Panchmuli, Narmada District, Gujarat
Biological status	Local germplasm
Local name/ Alternate identity	-
Salient features, if any	Better quality

## Yard Long Bean (*Vigna unguiculata* subsp. *sesquipedalis*)

Kairaly	
Variety Developed	
Name of variety (Other Id)	Kairaly (PTB-49)
Year of release/notification	1993
Institute/organisation	College of Horticulture, KAU, Vellanikkara
Released through CVRC/ SVRC	SVRC
States for which notified	Central zone of Kerala
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC045415
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Gandhinagar, Sivaganga, Tamil Nadu
Biological status	Local germplasm
Local name/ Alternate identity	-
Salient features, if any	Purple pods

Gazette Notification no.: 599 (E), Dated: 25.4.2006, Govt. of India

## Yard Long Bean (*Vigna unguiculata* subsp. *sesquipedalis*)

Mithra	
Variety Developed	
Name of variety (Other Id)	Mithra
Year of release/notification	-
Institute/organisation	KAU, ARS, Kalungal, Thiruvalla, Kerala
Released through CVRC/ SVRC	SVRC
States for which notified	Suitable for riverine alluvium of central Travancore
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC582850
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Jeypore, Orissa
Biological status	Landrace
Local name/ Alternate identity	Alladi (E2009-AP0013-10)
Salient features, if any	-

## Yard Long Bean (*Vigna unguiculata* subsp. *sesquipedalis*)

Arka Mangala	
Variety Developed	
Name of variety (Other Id)	Arka Mangala
Year of release/notification	2021
Institute/organisation	ICAR-IIHR, Bengaluru
Released through CVRC/ SVRC	CVRC
States for which notified	Zones IV (Punjab, UP, Bihar and Jharkhand) and VIII (Karnataka, Tamil Nadu and Kerala)
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC582850
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Jeypore, Orissa
Biological status	Landrace
Local name/ Alternate identity	Alladi (E2009-AP0013-10)
Salient features, if any	-

## Indian Spinach (*Basella alba* L.)

KASHI Poi-1	
Variety Developed	
Name of variety (Other Id)	KASHI Poi-1 (VRB-17)
Year of release/notification	2018
Institute/organisation	ICAR-IIVR, Varanasi
Released through CVRC/ SVRC	SVRC
States for which notified	Uttar Pradesh
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC621441
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Mandav, Varanasi, Uttar Pradesh
Biological status	Landrace
Local name/ Alternate identity	-
Salient features, if any	Soft and succulent leaves with high nutritional quality

Gazette Notification no.: S.O.692 (E), Dated: 05.02.2019, Govt. of India

## Indian Spinach (*Basella alba* L.)

KASHI Poi-2	
Variety Developed	
Name of variety (Other Id)	KASHI Poi-2 (VRB-31)
Year of release/notification	2018
Institute/organisation	ICAR-IIVR, Varanasi
Released through CVRC/ SVRC	SVRC
States for which notified	Uttar Pradesh
Breeding method	Pureline selection
Germplasm utilized	
Accession number	IC561302
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Khammam, Telangana
Biological status	Landrace
Local name/ Alternate identity	Batchalakura
Salient features, if any	Bush type growth and tolerant to leaf spot

Gazette Notification no.: S.O.692 (E), Dated: 05.02.2019, Govt. of India

## Carrot (*Daucus carota* L.)

Pusa Yamdagni	
Variety Developed	
Name of variety (Other Id)	Pusa Yamdagni
Year of release/notification	1988
Institute/organisation	IARI-RS, Katrain, H.P.
Released through CVRC/ SVRC	CVRC
States for which notified	Temperate type carrot growing areas of country
Breeding method	Hybridization (EC9981 x Nantes)
Germplasm utilized	
Accession number	EC9981
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Greece
Biological status	Germplasm
Local name/ Alternate identity	-
Salient features, if any	Quick growing habit

Gazette Notification no.: S.O.10 (E), Dated: 01.01.1988, Govt. of India

## Carrot (*Daucus carrota* L.)

Pusa Kesar	
Variety Developed	
Name of variety (Other Id)	Pusa Kesar
Year of release/notification	1975
Institute/organisation	IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	Throughout carrot growing areas of the country
Breeding method	Hybridization (Local Red x EC6028)
Germplasm utilized	
Accession number	EC6028
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	Holland
Biological status	Variety
Local name/ Alternate identity	Nantes Half Long
Salient features, if any	-

Gazette Notification no.: S.O.441 (E), Dated: 21.08.1975, Govt. of India

## Bell Pepper (*Capsicum annuum* L.)

California Wonder	
Variety Developed	
Name of variety (Other Id)	California Wonder
Year of release/notification	1975
Institute/organisation	IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	Throughout northern hills and other capsicum growing areas
Breeding method	Introduction
Germplasm utilized	
Accession number	EC27045
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	-
Salient features, if any	-

Gazette Notification no.: S.O.440 (E), Dated: 21.01.1975, Govt. of India

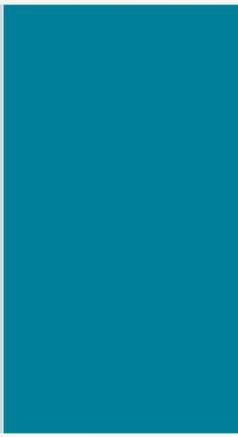
## Bell Pepper (*Capsicum annuum* L.)

NISHAT-1	
Variety Developed	
Name of variety (Other Id)	Nishat-1(Capsicum Selection-2)
Year of release/notification	1975
Institute/organisation	SKUAS&T, Srinagar
Released through CVRC/ SVRC	CVRC
States for which notified	Northern hills of J&K and HP and also for entire country.
Breeding method	Hybridization (Oskash X EC3247)
Germplasm utilized	
Accession number	EC3247
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	World Beater
Salient features, if any	-

Gazette Notification no.: S.O.1135 (E), Dated: 15.11.2001, Govt. of India



**FRUITS, SPICES  
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## Mango (*Mangifera indica* L.)

Pusa Arunima (H-13-1)	
Variety Developed	
Name of variety (Other Id)	Pusa Arunima (H-13-1)
Year of release/notification	2003
Institute/organisation	IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	Released for National Capital Territory of Delhi, which can be grown in northern India
Breeding method	Hybridization (Amrapali x EC96449)
Germplasm utilized	
Accession number	EC96449
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	Sensation
Salient features, if any	-

Gazette Notification no.: S.O.2035 (E), Dated: 28.11.2006, Govt. of India

## Mango (*Mangifera indica* L.)

Pusa Surya	
Variety Developed	
Name of variety (Other Id)	Pusa Surya
Year of release/notification	2002
Institute/organisation	ICAR-IARI, New Delhi
Released through CVRC/ SVRC	SVRC
States for which notified	National Capital Territory of Delhi
Breeding method	Introduction and selection
Germplasm utilized	
Accession number	EC176450
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	M 19833/ Eldon
Salient features, if any	-

Gazette Notification no.: S.O.2035 (E), Dated: 28.1.2006, Govt. of India

## Banana (*Musa paradisiaca* L.)

Kaveri Kalki	
Variety Developed	
Name of variety (Other Id)	Kaveri Kalki
Year of release/notification	2018
Institute/organisation	ICAR-NRC on Banana, Trichy
Released through CVRC/ SVRC	SVRC
States for which notified	Tamil Nadu, Kerala, Andhra Pradesh
Breeding method	Introduction and selection
Germplasm utilized	
Accession number	EC656741
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	INIBAP, Belgium
Biological status	Germplasm
Local name/ Alternate identity	Namwa Khom
Salient features, if any	-

Gazette Notification no.: S.O.1480 (E), Dated: 01.04.2021, Govt. of India

## Banana (*Musa paradisiaca* L.)

Kaveri Saba	
Variety Developed	
Name of variety (Other Id)	Kaveri Saba
Year of release/notification	2018
Institute/organisation	ICAR-NRC on Banana, Trichy
Released through CVRC/ SVRC	CVRC
States for which notified	Tamil Nadu, Kerala, Andhra Pradesh
Breeding method	Introduction
Germplasm utilized	
Accession number	EC414356
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	INIBAP, Belgium
Biological status	Germplasm
Local name/ Alternate identity	ITC 1138 SABA
Salient features, if any	Drought and salinity tolerant. Suitable for saline sodic soils (pH 8.8- 9.0)

Gazette Notification no.: S.O. 4272 (E), Dated: 26.11.2019, Govt. of India

## Papaya (*Carica papaya* L.)

Arka Surya	
Variety Developed	
Name of variety (Other Id)	Arka Surya
Year of release/notification	1996
Institute/organisation	ICAR-IIHR, Bangalore
Released through CVRC/ SVRC	SVRC
States for which notified	Karnataka
Breeding method	Hybridization (EC103366 x Pink Flesh Sweet)
Germplasm utilized	
Accession number	EC103366
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	Sunrise Solo
Salient features, if any	-

## Grape (*Vitis vinifera* L.)

Punjab Purple	
Variety Developed	
Name of variety (Other Id)	Punjab Purple
Year of release/notification	2007
Institute/organisation	PAU, Ludhiana
Released through CVRC/ SVRC	SVRC
States for which notified	Plains of Punjab
Breeding method	Hybridization EC28402 (Catawba) x EC28389 (Beauty Seedless)
Germplasm utilized	
Accession number	EC28402
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name/ Alternate identity	Catawba
Salient features, if any	-

Gazette Notification no.: S.O. 1714 (E), Dated 17.07.2008, Govt. of India

## Grape (*Vitis vinifera* L.)

Pusa Aditi	
Variety Developed	
Name of variety (Other Id)	Pusa Aditi
Year of release/notification	2021
Institute/organisation	ICAR-IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	Subtropical region of India
Breeding method	Hybridization (Banqui Abyad x EC28410)
Germplasm utilized	
Accession number	EC28410
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name (Alternate Id.)	Perlette
Salient features, if any	The berries are seedless with moderately thick skin and juicy flavored pulp

Gazette Notification no.: S.O. 1480 (E), Dated 01.04.2021, Govt. of India

## Grape (*Vitis vinifera* L.)

Pusa Urvashi	
Variety Developed	
Name of variety (Other Id)	Pusa Urvashi
Year of release/notification	2021
Institute/organisation	ICAR-IARI, New Delhi
Released through CVRC/ SVRC	CVRC
States for which notified	Subtropical region of India
Breeding method	Hybridization (Hur x EC28389)
Germplasm utilized	
Accession number	EC28389
Indigenous or Exotic	Exotic
If exotic, the source institute/ country	USA
Biological status	Variety
Local name (Alternate Id.)	Beauty Seedless
Salient features, if any	Seedless, blue-black in colour with sweet and spicy flavor

Gazette Notification no.: S.O. 1480 (E), Dated 01.04.2021, Govt. of India

## Chinese Potato (*Coleus parviflorus* Benth.)

Nidhi	
Variety Developed	
Name of variety (Other Id)	Nidhi
Year of release/notification	2001
Institute/organisation	KAU, RARS, Pattambi, Kerala
Released through CVRC/ SVRC	SVRC
States for which notified	Central zone of Kerala
Breeding method	Clonal Selection
Germplasm utilized	
Accession number	IC085708
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Kerala
Biological status	Local germplasm
Local name/ Alternate identity	NL 88
Salient features, if any	-

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## Greater Yam (*Dioscorea alata* L.)

Indu	
Variety Developed	
Name of variety (Other Id)	Indu
Year of release/notification	1998
Institute/organisation	KAU, RARS, Kottayam, Kerala
Released through CVRC/ SVRC	SVRC
States for which notified	Kerala
Breeding method	Clonal selection
Germplasm utilized	
Accession number	IC044209
Indigenous or Exotic	Indigenous
If Indigenous, the site of collection	Ernakulam, Kerala
Biological status	Landrace
Local name/ Alternate identity	28/5
Salient features, if any	-

## ACRONYMS

ANGRAU	Acharya NG Ranga Agricultural University
APAU	Andhra Pradesh Agricultural University
ARS	Agricultural Research Station
BCKV	Bidhan Chandra Krishi Vishwavidhyalaya
BCMV	Bean Common Mosaic Virus
CAZRI	Central Arid Zone Research Institute
CCSHAU	Chaudhary Charan Singh Haryana Agricultural University
CSAUA&T	Chandra Shekhar Azad University of Agriculture and Technology
CSK HPKV	Ch. Sarwan Kumar Himachal Pradesh Krishi Vishwavidhyalaya
CSIRO	Commonwealth Scientific and Industrial Research Organization
CSSRI	Central Soil Salinity Research Institute
CVRC	Central Varietal Release Committee
DRMR	Directorate of Rapeseed Mustard Research
EC	Exotic collection
GBPUA&T	Govind Ballabh Pant University of Agriculture and Technology
IARI	Indian Agricultural Research Institute
IC	Indigenous Collection
ICAR	Indian Council of Agricultural Research
IGFRI	Indian Grassland and Fodder Research Institute
IGKV	Indira Gandhi Krishi Vishwavidhyalaya
IIHR	Indian Institute of Horticultural Research
IIPR	Indian Institute of Pulses Research
IISR	Indian Institute of Soybean Research
IIVR	Indian Institute of Vegetable Research
INIBAP	International Network for the Improvement of Banana & Plantain
IRRI	International Rice Research Institute

JNKVV	Jawaharlal Nehru Krishi Vishwa Vidhyalaya
JAU	Junagadh Agricultural University
KAU	Kerala Agricultural University
MAU	Maharashtra Agricultural University
MPKV	Mahatma Phule Krishi Vidhyapeeth
NBPGR	National Bureau of Plant Genetic Resources
NRC	National Research Centre
PAU	Punjab Agricultural University
RARI	Rajasthan Agricultural Research Institute
RARS	Regional Agricultural Research Station
RPCAU	Rajendra Prasad Central Agricultural University
SVRC	State Varietal Release Committee
TNAU	Tamil Nadu Agricultural University
UAS	University of Agricultural Sciences
USA	United States of America
USDA	United States Department of Agriculture
USSR	Union of Soviet Socialist Republic
VPKAS	Vivekanand Parvatiya Krishi Anusandhanshala
YVMV	Yellow Vein Mosaic Virus
ZARS	Zonal Agricultural Research Station

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ICAR-National Bureau of Plant Genetic Resources (NBPGR) is the nodal organization in India to carry out research, education and service activities in managing plant genetic research. NBPGR houses the national genebank that is conserving more than 400,000 accessions belonging to various crops.

Its headquarters is located in New Delhi with ten regional stations spread across the country. NBPGR is a constituent organization under the Indian Council of Agricultural Research.



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