

808358

CROP VARIETIES
FROM
KERALA AGRICULTURAL UNIVERSITY

GOPALAKRISHNAN T. R.

and

ALEXANDER D.



DIRECTORATE OF RESEARCH
KERALA AGRICULTURAL UNIVERSITY

KAU P.O. VELLANIKKARA
THRISSUR - 680 651, KERALA, INDIA

English

Crop Varieties from Kerala Agricultural University

Editing :

Gopalakrishnan T.R & Alexander D

Compilation :

Gopalakrishnan T.R.

Meagle Joseph

Prameela K.P.

Savithri K.E.

Rajan S.

Latha A. and

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FOREWORD

The prime concern of the day is “climate change” and the declining food production which lead to famine in the near future. This necessitates comprehensive approaches to increase productivity of food crops. India has to double agriculture production by increasing the present annual growth rate from 2% to 4% for ensuring food security. Improved varieties and seeds play a key role in the productivity of crops and 20-30% of crop production is decided by varieties and seeds alone.

Kerala is endowed with diverse soil and climatic conditions suitable for cultivation of a variety of crops in different parts of the state. Research in the Kerala Agricultural University since its inception in 1972, resulted in the development of 271 varieties in different crop plants. This include high yielding varieties, pest and disease resistant varieties and varieties suited for specific agro climatic conditions in cereals, pulses, vegetables, fruits, spices, medicinal plants, oil seeds, tuber crops, forage crops etc.

KAU is also undertaking large scale production and distribution of quality seeds and planting materials for popularization of improved varieties developed in the University. During 2009-10, the University has almost doubled the production of improved seeds and planting materials as evidenced by revenue of Rs 6.45 crores during 2009-10 compared to Rs 3.25 crores during the previous year.

The large number of varieties developed and released after clearance of statutory bodies help in maintaining the biodiversity of the nature. The documentation of these released varieties and the land races which are popular among the farmers and existed even during pre –independence period became a felt need in the context of WTO or IIPR issues.

I congratulate all the scientists who have taken earnest efforts for developing varieties having specific advantages. In this age, where variety protection and patenting is the rule, the document will be a useful reference guide in varietal identification and protecting the Plant Breeders Right. I also appreciate the efforts of Directorate of Research, KAU for bringing out this compilation. I hope this document will be highly useful for the scientists, development officers and farmers of the State.

K.R. Viswambharan, I.A.S.
Vice Chancellor
Kerala Agricultural University
Vellanikkara

PREFACE

Diverse soil and climatic conditions prevailing in different parts of Kerala offer scope for cultivation of a variety of crops in this State. Kerala Agricultural University has to its credit 271 improved varieties in different crop plants for different agro climatic zones of the State. Of these, 49 varieties were developed earlier before inception of the Kerala Agricultural University in 1972. The improved varieties include 113 in rice, 57 in vegetable crops, 3 in fruit crops, 12 in pulses, 7 in tuber crops, 6 in coconut, 17 in spices and aromatic plants, 16 in cashew, 10 in cocoa, 4 in sugarcane, 7 in sesamum, 5 in orchids, 9 in medicinal plants, 5 in forage crops and one in mushroom. All the varieties were approved by the State Seed Sub Committee meeting and a good number were later cleared by "Central Sub committee on crop standards, notification and release of varieties" for notification and large scale cultivation. The varieties were released for characters like high yield, resistance to pests and diseases, quality attributes, either for the state or for specific location/farming systems like Pokkali, Kole land, Cheradi tract, High range zones etc. All the 271 varieties of the University are described in this document. In order to avoid duplication and to save space, the "Meetings of Central Sub committee on crop standards, notification and release of varieties" is abridged as "Central Committee meeting" in the text. Similarly for saving space, fertiliser recommendation only is given under "Tips for cultivation" of individual varieties. Hence organic manure application should be followed as per the "Package of Practice Recommendations- crops".

It is observed that approval and notification by the Central sub committee meeting is not obtained for majority of varieties for want of registration number from NBPGR. Hence in future, the registration number should be obtained by submitting required seed samples at National Bureau of Plant Genetic Resources (NBPGR) or National Active Germplasm Sites before submission of proposals to State seed sub committee meetings and Central Sub Committee meetings.

Hope this document will be useful for selecting the best variety/ varieties for specific agro climatic situations. It will be helpful for the scientists, development officer and farmers for cultivation and seed production purposes and also for protection of varieties in the context of WTO or IIPR issues.

The University is thankful to the Directorate of Seed Research and ICAR for funding the seed production programmes and documentation of varieties from the University.

T.R. Gopalakrishnan
Officer on Special Duty (Seeds) &
Associate Director of Research (Vegetable Mission)
Directorate of Research, KAU. P.O
Thrissur - 680 656, Vellanikkara

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Rice (*Oryza sativa*)

1. Crop : Rice
 2. Variety : Jyothi (PTB 39)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : PTB 10 x IR 8
 5. Year of release and authority : 1974 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC No.263552, Notified as per S.O.NO.271(E)dt.7-3-77
 8. Specific advantages / features : High yielding, short duration(105 – 110 days), with adaptable to a wide range of cropping situations. Photo insensitive, tolerant to BPH, susceptible to sheath blight and blast. Excessive shedding of grains at maturity. Hulling % - 72.9
 9. Key characters for identification : Dwarf (75 - 85 cm), non-lodging with compact panicle. Long bold grains with red kernel.
 10. Productivity : 6 t/ha
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Suited for all the three seasons. Apply Organic manure-5t/ha and NPK-70:35:35 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
-

1. Crop : Rice
2. Variety : Sabari (PTB 40)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Annapoorna x IR 8/2
5. Year of release and authority : 1974 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.263709, Notified as per S.O.NO.13(E)dt.19-12-78
8. Specific advantages / features : High yielding, medium duration (130 – 135 days), photo-insensitive variety susceptible to sheath blight. Hulling % - 76
9. Key characters for identification : Dwarf (80-90 cm), non-lodging with compact panicle. Medium bold grains with red kernel
10. Productivity : 5 - 6 t/ha
11. Area of adaptation : Throughout Kerala.
12. Tips on cultivation : Suited for all the three seasons. Apply Organic manure 5t/ha and NPK - 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : Bharathy (PTB 41)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : PTB 10 x IR-8
 5. Year of release and authority : 1974 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC No.263710, Notified as per S.O.NO.13(E)dt.19-12-78
 8. Specific advantages / features : High yielding, medium duration (120 to 125 days), photo insensitive, tolerant to BPH and moderately resistant to blast.
 9. Key characters for identification : Dwarf (90-95 cm), non-lodging variety having compact panicle. Long bold grains with red kernel
 10. Productivity : 6 t/ha
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Suited for all the three seasons, Apply Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
-

1. Crop : Rice
2. Variety : Suvarna Modan (PTB 42)
3. Method of breeding : Selection
4. Source / parent / pedigree : ARC - 11775
5. Year of release and authority : 1976 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.263603
8. Specific advantages / features : Photo insensitive, short duration (110- 115 days) variety suitable for dry sown conditions. Tolerant to drought, moderately resistant to pests and diseases. Hulling % - 75
9. Key characters for identification : Tall (110-120 cm) variety having straw coloured, medium slender grains with white kernel.
10. Productivity : 5 t/ha
11. Area of adaptation : Modan lands and other uplands
12. Tips on cultivation : Apply - Organic manure - 5t/ha and NPK - 60:30:30 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
2. Variety : Swarnaprabha (PTB 43)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Bhavani x Triveni
5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No. 263602
8. Specific advantages / features : Short duration (105-110 days), photo insensitive, suitable for transplanting and direct seeding. Moderately resistant to blast and stem borer, susceptible to sheath blight and tolerant to drought. Hulling % - 75
9. Key characters for identification : Semi tall (110 cm), non-lodging variety having straw coloured grains.
10. Productivity : 4 t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Suited for uplands and for all the three seasons in the wet lands. A good first crop component in *Koottumundakan* Apply - NPK-60:30:30 kg/ha for uplands; 70:35:35 kg/ha for low lands and 20:10:10 for koottumundakan
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
2. Variety : Rasmi (PTB 44)
3. Method of breeding : Mutation
4. Source / parent / pedigree : Oorpandy
5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.264045
8. Specific advantages / features : Long duration (150-160 days), photosensitive, high straw yield. Moderately resistant to BPH, gall midge, stem borer, leaf roller and sheath blight. Hulling % - 75
9. Key characters for identification : Tall (140-145 cm) variety with low tendency for lodging. Short, bold black coloured grains with red kernel
10. Productivity : 3.5 – 4 t/ha
11. Area of adaptation : Palakkad, Onattukara and Southern Districts of Kerala
12. Tips on cultivation : Suited for second crop as the *Mundakan* component of *Koottumundakan* system. Apply NPK 30:15:15 kg/ha when component of *Koottumundakan*
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : Matta Triveni (PTB 45)
 3. Method of breeding : Reselection
 4. Source / parent / pedigree : Triveni
 5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC No.263553
 8. Specific advantages / features : High yielding, photo-insensitive, short duration (100 to 105 days), moderately resistant to BPH, but susceptible to blast and sheath blight. Hulling % - 75
 9. Key characters for identification : Dwarf (80-85 cm), non-lodging, with compact panicle and red kernel
 10. Productivity : 5 - 5.5 t/ha
 11. Area of adaptation : Throughout Kerala especially Kuttanad and Kole areas
 12. Tips on cultivation : Suited for all the three seasons. Apply Organic manure-5t/ha and NPK - 70:35:35 kg/ha
 13. Scientists responsible for developing the variety : Karunakaran K.
Rosamma C.A., Sukumara Dev V.P., Elsy C.R.,
Baby P Skariah
-

1. Crop : Rice
2. Variety : Jayathi (PTB 46)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Triveni x IR 2061
5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.263555
8. Specific advantages / features : High yielding, medium duration (120-125 days) variety with wide range of adaptability outside Kerala and India. Photoinsensitive, moderately resistant to blast, blight, BPH, GLH and leaf folder. Hulling % - 75
9. Key characters for identification : Dwarf (90-95 cm), non-lodging with semi compact panicle and white kernel.
10. Productivity : 5 - 5.5 t/ha
11. Area of adaptation : Diverse agro-climatic situations of India and outside
12. Tips on cultivation : Suited for all the three seasons . Apply Organic manure-5t/ha and NPK- 90:45:45 kg/ha
13. Scientists responsible for developing the variety : James K.I. ,
Rajappan Nair N., Karunakaran K., Rosamma C.A.

1. Crop : Rice
2. Variety : Neeraja (PTB 47)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : IR 20 x IR 5
5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.263958, Notified as per S.O.NO.17-23dt.19-7-2000
8. Specific advantages / features : Photo insensitive, long duration (135-140 days during kharif and 120-125days during rabi), resistant to blast, sheath rot and leaf folder. Susceptible to sheath blight and tolerant to temporary floods. Hulling % - 75.8
9. Key characters for identification : Semi-tall (100 –110 cm), non-lodging with straw coloured grains and white kernel.
10. Productivity : 5 - 5.5 t/ha
11. Area of adaptation : Suited to flood prone and waterlogged areas and *poonthalpadams*
12. Tips on cultivation : Suited for *Virippu* season. Apply Organic manure - 5t/ha and NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Rajappan Nair N.,
Rosamma C.A., Karunakaran K.

1. Crop : Rice
2. Variety : Nila (PTB 48)
3. Method of breeding : Hybridization and Selection
4. Source / parent / pedigree : (Triveni x Vellathil Kolappala) x CO - 25
5. Year of release and authority : 1992 - Kerala State Seed Sub Committee meeting
15th Central Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.264046
8. Specific advantages / features : Photo sensitive, long duration (160-180 days) variety capable of producing good grain and straw yields under low fertilizer application. Moderately resistant to sheath blight, gall midge, thrips, stem borer and BPH. Susceptible to blast. Hulling % - 73.5
9. Key characters for identification : Semi tall (125 cm) and non-lodging variety. Panicles long and attractive with short, bold straw coloured grains and red kernels
10. Productivity : 4 t/ha
11. Area of adaptation : Suitable for the *koottumundakan* and *karimkora* systems of cultivation
12. Tips on cultivation : Suited to *Mundakan* season. Apply - Organic manure-5t/ha and NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Rosamma C.A.
Elsy C.R., Karunakaran K., Rajappan Nair N.,
Pushkaran K., Dev V.P.S. Baby P Skariah, Rajan K.M.,
Pillai G.R.

1. Crop : Rice
 2. Variety : Kairali (PTB 49)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : IR 36 x Jyothi
 5. Year of release and authority : 1993 Kerala State Seed Sub Committee meeting
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC No.263559
 8. Specific advantages / features : High yielding, photo - insensitive, short duration (110-115 days), moderately resistant to blast, sheath blight, gall midge and leaf folder. Hulling % - 72
 9. Key characters for identification : Dwarf (90- 95 cm) and non-lodging plants with long panicles. Bold grains with red kernel
 10. Productivity : 5 - 5.5 t/ha
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Suited for all the three seasons. Apply Organic manure-5t/ha and NPK - 70:35:35 kg/ha
 13. Scientists responsible for developing the variety : Rosamma C.A.,
Elsy C.R., Karunakaran K., Rajappan Nair N.,
Pushkaran K., Dev V.P.S., Baby P. Skariah, Rajan K.M.,
Pillai G.R.
-

1. Crop : Rice
2. Variety : Kanchana (PTB 50)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : IR 36 x Pavizham
5. Year of release and authority : 1993 Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No. 263560
8. Specific advantages / features : High yielding, short duration (105 – 110 days), photo insensitive variety having excellent milling and cooking qualities. Moderately resistant to blast, brown spot, sheath blight, gall midge and tungro virus. Hulling % - 80
9. Key characters for identification : Dwarf (88 cm) and non-lodging plants with long, bold grains and red kernel
10. Productivity : 5.5 t/ha
11. Area of adaptation : Throughout Kerala especially *Kole* and Kuttanad regions
12. Tips on cultivation : Suited for all the three seasons. Apply Organic manure-5t/ha and NPK-70:35:35 kg/ha
13. Scientists responsible for developing the variety : Rosamma.C.A.
Elsy C.R., Pushkaran K., Karunakaran K.,
Rajappan Nair N., Dev V.P.S., Baby P.Skariah,
Rajan K.M., Pillai G.R.

1. Crop : Rice
 2. Variety : Aathira (PTB 51)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : BR 51-46-1 x Culture 23332-2
 5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC No.263711
 8. Specific advantages / features : Medium duration (120 days in kharif and 105 days in summer), photo insensitive, moderately resistant to blast, sheath blight, BPH and gall midge. Excellent milling recovery and cooking quality. Hulling % - 78
 9. Key characters for identification : Semi tall (110-115 cm) and non-lodging plants having short, bold grains and red kernel
 10. Productivity : 5 - 5.5 t/ha
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Suited to *Virippu* and *Mundakan* seasons. Apply Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Rosamma.C.A.,
Elsy C.R., Rajappan Nair N., Karunakaran K.,
Dev V.P.S., Rajan K.M., Girija. T., Baby P.Sariah, Pillai G.R.
-

1. Crop : Rice
2. Variety : Aiswarya (PTB 52)
3. Method of breeding : Hybridization
4. Source / parent / pedigree : Jyothis x BR 51- 46 -1
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.263712
8. Specific advantages / features : Photo insensitive, medium duration (120 days during kharif and 105-110 days during rabi and summer seasons), moderately resistant to blast, sheath blight, BPH and gall midge. Hulling % - 79
9. Key characters for identification : Semi tall (105-108 cm) and non- lodging plants with long, bold grains and red kernel.
10. Productivity : 5 - 5.5 t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Suited to *Virippu* and *Munadakan* seasons. Apply Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Rosamma C.A.,
Elsy C.R., Rajappan Nair N., Karunakaran K. , Dev V.P.S.,
Rajan K.M., Girija T., Baby P.Skariah, Pillai G.R.

1. Crop : Rice
 2. Variety : Mangala Mashuri (PTB 53)
 3. Method of breeding : Reselection
 4. Source / parent / pedigree : Mashuri
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC No.263974
 8. Specific advantages / features : Photo insensitive, long duration (140-145 days) variety tolerant to flood, iron toxicity and pests like gall midge, stem borer, whorl maggot and blue beetle. Good response at low fertilizer regimes
 9. Key characters for identification : Tall (140cm) and non-lodging plants with medium slender brown grains and red kernel
 10. Productivity : 4.5 - 5 t/ha
 11. Area of adaptation : Adapted to the central zone of Kerala. Highly suited for ill-drained and temporarily flooded areas and also Chittoor black soils
 12. Tips on cultivation : Suited for *Virippu* and *Mundakan* seasons. Apply - Organic manure - 5t/ha and NPK - 50:25:25 kg/ha
 13. Scientists responsible for : Elsy.C.R.
Rosamma C.A., Rajappan Nair N., Sukumara Dev V.P.,
Baby P.Skariah, Rajan K.M., Krishnan V.
-

1. Crop : Rice
2. Variety : Karuna (PTB 54)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : CO - 25 x H₄
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC No.264052, Notified as per S.O.NO.837(E)dt.4-9-2002
8. Specific advantages / features : Weakly photosensitive, late duration (140-145 days) variety with low fertilizer requirement. Moderately resistant to sheath blight, blast, stem borer and iron toxicity. Performs well even under poor management conditions
9. Key characters for identification : Tall (155cm) and sturdy plants with stiff straw. Shows slight tendency to lodge if grown on highly fertile soil. Long, bold straw coloured grains with red kernel
10. Productivity : 4.5 t/ha
11. Area of adaptation : Palakkad and Malappuram districts (Central zone)
12. Tips on cultivation : Specific for *Mundakan* season. Apply - Organic manure-5t/ha and NPK 40:20:20 kg/ha
13. Scientists responsible for developing the variety : K. Karunakaran,
Rosamma C.A., Leenakumari S., Rajappan Nair.N,
Nair N.K., Elsy C. R., Valarmathy G., Sukumara Dev V.P.,
Rehumath Niza T. J., Natarajan L.

1. Crop	:	Rice
2. Variety	:	Harsha (PTB 55)
3. Method of breeding	:	Hybridization and selection
4. Source / parent / pedigree	:	M.210 x PTB 28
5. Year of release and authority	:	2000 - 20 th Kerala State Seed Sub Committee meeting
6. Evolved at	:	RARS, Pattambi
7. Registration / notification details	:	Notified as per S.O.No.837(E)dt.4-9-2002
8. Specific advantages / features	:	Photo insensitive, early duration (105-110 days) with moderate resistance to blue beetle and moisture stress. Low susceptibility to blast and sheath blight. Non-lodging and non-shattering with excellent milling and cooking qualities. straw coloured grains with red kernel.
10. Productivity	:	4.5-5 t/ha
11. Area of adaptation	:	Suitable for direct seeding in uplands and rain fed low lands
12. Tips on cultivation	:	Suited to <i>Virippu</i> and <i>Mundakan</i> seasons. Apply Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety	:	Leenakumari S, Valarmathi G., Elsy C.R., Tessa Joseph, Rosamma C.A., Girija T., Karunakaran K., Varkey P.A., Natarajan L. Rehmath Niza, Balachandran P.V.

1. Crop	:	Rice
2. Variety	:	Varsha (PTB 56)
3. Method of breeding	:	Hybridization and selection
4. Source / parent / pedigree	:	M 210 x (M 210 x PTB 28)
5. Year of release and authority	:	2002 - 21 st State Seed Sub Committee meeting
6. Evolved at	:	RARS, Pattambi
7. Registration / notification details	:	
8. Specific advantages / features	:	Photo insensitive, early duration (110-120 days) moderately resistant to blast, blue beetle and WBPH.
9. Key characters for identification	:	Semi-dwarf (96cm), compact and non-lodging plants with long bold, straw coloured grains having red kernel
10. Productivity	:	4.5 – 5 t/ha
11. Area of adaptation	:	Suitable for direct seeding in uplands and rain fed low lands. Also suited for transplanting. Good for <i>kole</i> areas
12. Tips on cultivation	:	Suited for <i>Virippu</i> and <i>Mundakan</i> seasons. Apply - Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety	:	Leenakumari S Gregory Zacharia, Pushkaran K., Tessa Joseph, Rosamma C.A., Valarmathi G., Elsy C.R., Karunakaran K., Rajappan Nair N., Natarajan L., Rehmath Niza, Johnkutty I., Rose Mary Francis, Balachandran P.V.

1. Crop : Rice
 2. Variety : Swetha (PTB 57)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : IR 50 x C 14-8
 5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details :
 8. Specific advantages / features : Photoinsensitive, long duration (135-145 days), resistant to gall midge and stem borer, moderately resistant to sheath blight, sheath rot, brown spot and blast
 9. Key characters for identification : Semi-tall (108.5cm), non-lodging plants producing long, compact and well exerted panicles with short bold straw coloured grains and white kernels
 10. Productivity : 4.5 – 5 t/ha
 11. Area of adaptation : Suitable for the irrigated lowlands of Palakkad district
 12. Tips on cultivation : Suited for *Mundakan* season. Apply -Organic manure- 5t/ha, and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Leenakumari S, Ram T. , Majumdar, Gregory Zacharia, Rose Mary Francis, Johnkutty I. , Balachandran P.V
-

1. Crop : Rice
2. Variety : Anashwara
3. Method of breeding : Induced mutagenesis (22- KR Gamma Rays) followed by selection
4. Source/parent/ pedigree : PTB 20 (Vadakkan Chitteni)
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : RARS, Pattambi
7. Registration/notification details :
8. Specific advantages/features : Semi-tall, photo sensitive, long duration (125-130 days) with tendency to lodge at maturity and tolerant to major pests and diseases
9. Key characters for identification : Broad leaves with more number of panicles, higher thousand grain weight, red kernel
10. Productivity : 3.5 - 4.5t/ha
11. Area of adaptation : Irrigated wet lands of Thrissur and Ernakulam districts during Rabi season
12. Tips on cultivation : Photo sensitive variety suitable for second crop season only. Raise nursery in the first week of August and transplant 30 DAS.
13. Scientists responsible for developing the variety : Gregory Zachariah , Jiji Joseph, Balachandran P. V, Rosamma C. A. Elsy C. R, Rajappan Nair N, Pushkaran K.,Tessy Joseph, Valarmathi. G. , Karthikeyan, Purushothaman S. M.

1. Crop : Rice
 2. Variety : **Vaishakh**
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Swarnaprabha
 5. Year of release and authority : 2010 - 24th Kerala State Seed Sub Committee meeting.
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC 583765
 8. Specific advantages / features : Suitable for direct sowing in Virippu season in garden lands. Tolerant to moisture stress, resistant to blue beetle, moderate resistance to stem borer and whorl maggot.
 9. Key characters for identification : Duration 117-125 days. Plant height 118.82 cm, photo insensitive, early maturity, non lodging, low shattering, short bold red grains
 10. Productivity : 2.2 t/ha
 11. Area of adaptation : Rainfed uplands of Central Kerala
 12. Tips on cultivation : Moderately susceptible to gall midge, leaf folder, blast and sheath blight, highly susceptible to bacterial leaf blight. Performs well in low land when transplanted.
 13. Scientists responsible for developing the variety : Rose Mary Francis
Jiji Joseph, Leena kumari.S, Gregory Zachariah,
Valarmathi.G, Balachandran.P.V, Raji.P,
Karthikeyan.K, Sudarshan Rao, Pathummal Beevi
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1. Crop : Rice
2. Variety : **Samyuktha**
3. Method of breeding : Pure line selection
4. Source / parent / pedigree : Culture C2
5. Year of release and authority : 2010 - 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC 583751
8. Specific advantages / features : High yielding medium tall variety suitable for *Kootumundakan* cultivation. Moderate resistance to stem borer, whorl maggot, blue beetle, BPH and sheath blight.
9. Key characters for identification : Plant height 123 cm, early maturing (112-117 days), photo insensitive, medium tall, non lodging with short bold red grains.
10. Productivity : Grains 4t/ha + Straw 13 t/ha for *Kootumundakan* system with Makaram variety during virippu.
11. Area of adaptation : Suitable for rainfed low lands of Central Kerala for direct seeding during *Kharif* under *Kootumundakan* system of cultivation
12. Tips on cultivation : Moderately susceptible to blast and highly susceptible to gall midge. Apply NPK @ 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Rose Mary Francis
Jiji Joseph, Leena kumari.S, Gregory Zachariah,
Valarmathi.G, Rosamma C.A, Elsy C.R, Karunakaran.K,
Tessy Joseph, T.Girija, Balachandran.P.V, Raji.P,
Karthikeyan.K, Sudarshan Rao, Pathummal Beevi

1. Crop : Rice
 2. Variety : Bhadra (MO 4)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : IR 8 x PTB 20
 5. Year of release and authority : 1978 Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details : IC No.263713, Notified as per S.O.NO.2103 dt.12-8-80
 8. Specific advantages / features : High yielding, weakly photosensitive, medium duration (120 days for *Puncha* and 140 days for *Kharif* in Kuttanad. Resistant to BPH, susceptible to sheath blight. Hulling % - 79.5
 9. Key characters for identification : Dwarf (75 – 80 cm) and non-lodging plants producing compact panicles having short bold straw coloured grains with brown furrows. Kernel colour red.
 10. Productivity : 4.5 - 5.5 t/ha
 11. Area of adaptation : Kuttanad, *Kole* and Chittoor regions
 12. Tips on cultivation : Apply - Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Rajappan Nair N.
Sukumaran Nair S., Rema Bai N.
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1. Crop : Rice
2. Variety : Asha (MO 5)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : IR 11-1-66 x Kochuvithu
5. Year of release and authority : 1980 Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Moncompu
7. Registration / notification details : IC No.263714, Notified as per S.O.NO.569 (E)dt.13-8-84
8. Specific advantages / features : Photo insensitive, medium duration (120 days) variety suited for additional crop (*kharif*) also. Resistant to BPH, moderately resistant to sheath blight and stem borer. Susceptible to blast. Hulling % - 80.
9. Key characters for identification : Dwarf (80-85 cm) and non-lodging plants producing medium bold, straw coloured grains with red kernel.
10. Productivity : 5 – 6 t/ha
11. Area of adaptation : Kuttanad and *kole* areas of Kerala
12. Tips on cultivation : Suited for *Puncha* Season. Apply - Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Rajappan Nair N.
Sukumaran Nair S., Rema Bai N.

1. Crop : Rice
2. Variety : Pavizham (MO 6)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : IR 8 x Karivennel
5. Year of release and authority : 1982 - Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Moncompu
7. Registration / notification details : IC No.263715, Notified as per S.O.NO.258 (E)dt.14-5-86
8. Specific advantages / features : Photoinsensitive, medium duration (115 – 120 days) suitable for the additional crop (*Virippu* season) of Kuttanad. Resistant to BPH, moderately resistant to sheath blight, sheath rot and stack burn. Easy to thresh. Hulling % - 79.5
9. Key characters for identification : Dwarf (85-90 cm), non-lodging. Semi compact panicle with short, bold, straw coloured grains and red kernel.
10. Productivity : 5 - 6 t/ha
11. Area of adaptation : Kuttanad, *Kole* and Northern regions of Kerala.
12. Tips on cultivation Kuttanad : Suited to all the three seasons and *Puncha* season of and *Kole*. Apply - Organic manure-5t/ha and NPK - 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Rajappan Nair N. , Sukumaran Nair S. Rema Bai N. , Thomas M.J.

1. Crop : Rice
2. Variety : Karthika (MO 7)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Triveni x IR 1539
5. Year of release and authority : 1987 - Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Moncompu
7. Registration / notification details : IC No.263716
8. Specific advantages / features : Photo insensitive, short duration (110 to 115 days) variety suitable for additional crop (*Virippu*) of Kuttanad. Resistant to BPH, moderately resistant to sheath blight, sheath rot and BLB
9. Key characters for identification : Dwarf (90-95cm), and non-lodging plants producing compact panicles with straw coloured, medium bold grains and red kernel.
10. Productivity : 6- 6.5 t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Suited for all the three seasons and *puncha* season of Kuttanad and *Kole*. Apply - Organic manure - 5t/ha, and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Rema Bai N. , Sukumaran Nair. S., Rajappan Nair N.

1. Crop : Rice
 2. Name of the variety : Aruna (MO 8)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : Jaya x PTB 33
 5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details : IC No.263640
 8. Specific advantages / features : Photo insensitive, short duration (100 to 110 days) variety having seed dormancy up to one month, specially suited to wet harvest season. Resistant to BPH, moderately resistant to sheath blight, BLB, brown spot, stem borer and gall midge. Susceptible to neck blast. Hulling % - 74
 9. Key characters for identification : Dwarf (85 cm), non-lodging plants producing straw coloured, short bold grains with golden furrows. Kernel colour - red
 10. Productivity : 5.5 - 6 t/ha
 11. Area of adaptation : Kuttanad, Kole and Onattukara region
 12. Tips on cultivation : Suited to *Kharif* and *Puncha* seasons. Apply - Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
 13. Scientists responsible for developing the variety : Rema Bai.N. ,
Rajappan Nair. N., Leenakumari S., Radha Devi D.S. ,
Devika R., Ahmed Rejina
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1. Crop : Rice
2. Variety : Makom (MO 9)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : ARC 6650 x Jaya
5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Moncompu
7. Registration / notification details : IC No.263641
8. Specific advantages / features : Photo insensitive, short duration (100 to 110 days) with seed dormancy up to 3 weeks. Specially suited for wet harvest season. Resistant to BPH, moderately resistant to sheath blight, sheath rot, brown spot, stem borer, gall midge and leaf roller. Hulling % 79
9. Key characters for identification : Dwarf (80 cm), non-lodging plants with semi- compact panicle. Straw coloured, short bold grains with golden furrows and red kernel
10. Productivity : 6 - 6.5 t/ha
11. Area of adaptation : Through out Kerala
12. Tips on cultivation : Suited for all the three seasons. Apply - Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Rema Bai.N. ,
Rajappan Nair N., Leenakumari S., Radha Devi D.S.
Devika R., Ahmed Rejina

1. Crop : Rice
 2. Variety : Remya (MO 10)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : Jaya x PTB 33
 5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details : IC No.263797
 8. Specific advantages / features : High yielding, photo insensitive, medium duration (120 days) variety with seed dormancy up to one month. Suited to wet harvest season. Resistant to BPH and moderately resistant to blast, sheath blight, sheath rot and gall midge
 9. Key characters for identification : Semi tall (110 cm), non-lodging plants with semi-compact panicle and golden yellow coloured, medium bold grains with red kernel
 10. Productivity : 6.5 t/ha
 11. Area of adaptation : Southern districts of Kerala.
 12. Tips on cultivation : Suited to all the three seasons. Apply - Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Rema Bai.N. , Rajappan Nair N., Leenakumari S., Radha Devi D.S., Devika R., Ahmed Rejina
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1. Crop : Rice
2. Variety : Kanakom (MO 11)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : IR 1561 x PTB 33
5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Moncompu
7. Registration / notification details : IC No.263717
8. Specific advantages / features : Photo insensitive, medium duration (120 to 125 days), multiple resistant variety. Highly resistant to BHP, moderately resistant to sheath blight, sheath rot, blast, BLB, RTV, stem borer, gall midge and WBPH. Hulling % - 76.5
9. Key characters for identification : Semi-tall (115 cm), non-lodging variety with compact panicle and short bold, straw coloured grains with red kernel
10. Productivity : 5.5 - 6 t/ha
11. Area of adaptation : Palakkad, Kuttanad, *Kole* and Onattukara regions
12. Tips on cultivation : Suited to all the three seasons. Apply - Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Rema Bai N. , Rajappan Nair N., Leenakumari S., Radha Devi D.S., Devika R., Ahmed Rejina

1. Crop : Rice
 2. Variety : Ranjini (MO 12)
 3. Method of breeding : Pedigree selection
 4. Source / parent / pedigree : MO 5 x Improved Sona KAU M 28-1-1
 5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details :
 8. Specific advantages / features : Medium duration (118-120 days), medium tillering, non-photosensitive variety with good culm strength and better anchorage. Resistant to BPH, blast, sheath blight and sheath rot and moderately resistant to gall midge biotypes 1 to 4 and stem borer
 9. Key characters for identification : Dwarf (90-95 cm), non-lodging plants with compact and well exerted panicle and short, bold, straw coloured grains. Kernel colour red.
 10. Productivity : 5 - 6 t/ha
 11. Area of adaptation : Throughout Kerala especially blast endemic areas of the state
 12. Tips on cultivation : Suited for all the three seasons. Apply - Organic manure-5t/ha and NPK-90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Devika R.,
Rema Bai N., Ahmed Rejina, Leenakumary S.,
Joseph C.A
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1. Crop : Rice
2. Variety : Pavithra (MO 13)
3. Method of breeding : Pedigree method
4. Source / parent / pedigree : Surekha x MO 5
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : FRS, Moncompu
7. Registration / notification details : IC No.263879, Notified as per S.O.NO.837(E)dt.4-9-2002
8. Specific advantages / features : Medium duration (115-120 days) variety resistant to BPH and gall midge biotype 5.
9. Key characters for identification : Dwarf, medium tillering plants with medium bold grains and red kernel
10. Productivity : 6 - 7 t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Suited for all the three seasons. Apply - Organic manure-5t/ha and NPK - 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Rema Bai N.
Devika R., Ahmed Regina, Leenakumary S., Joseph C.A.,
Rema Devi L, Ambika Devi D., Vasudevan Nair K.P.

1. Crop : Rice
 2. Variety : Panchami (MO 14)
 3. Method of breeding : Pedigree method
 4. Source / parent / pedigree : Pothana x MO 5
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details : IC No.263880, Notified as per S.O.NO.837(E)dt.4-9-2002
 8. Specific advantages / features : Medium duration (115-120 days) variety resistant to BPH and gall midge biotype 5
 9. Key characters for identification : Dwarf, medium tillering plants with medium bold grains and red kernel
 10. Productivity : 6 - 7 t/ha
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Suited for all the three seasons. Apply - Organic manure- 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Rema Bai N.
Devika R., Ahmed Regina, Leenakumari S., Joseph C.A.,
Rema Devi,L, Ambika Devi D., Vasudevan Nair K.P.
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1. Crop : Rice
2. Variety : Remanika (MO 15)
3. Method of breeding : Mutation
4. Source / parent / pedigree : MO 1
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : RRS Moncompu
7. Registration / notification details : Notified as per S.O.NO.837(E)dt.4-9-2002
8. Specific advantages / features : Short duration (100-105 days) variety resistant to BPH and tolerant to gall midge
9. Key characters for identification : Dwarf, medium tillering plants with short bold grains and red kernel
10. Productivity : 5.5 - 6 t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Suited for all the three seasons. Apply - Organic manure- 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Devika.R.,
Rema Bai N., Ahmed Regina, Leenakumari S.,
Joseph C.A., Reena Mathew, Rema Devi L, Ambika
Devi D., Vasudevan Nair K.P.

1. Crop : Rice
 2. Variety : Uma (MO 16)
 3. Method of breeding : Pedigree selection
 4. Source / parent / pedigree : MO 6 x Pokkali
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details : IC No.263881, Notified as per S.O.NO.837(E)dt.4-9-2002
 8. Specific advantages / features : Medium duration (115-120 days during Mundakan and 120-135 days during Virippu) resistant to BPH and gall midge biotype 5. Dormancy upto 3 weeks.
 9. Key characters for identification : Dwarf plants with medium bold grains and red kernel
 10. Productivity : 6.5 - 7 t/ha
 11. Area of adaptation : Through out Kerala
 12. Tips on cultivation : Suited to all the three seasons especially to additional crop season of Kuttanad. Apply Organic manure 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Devika R.,
Rema Bai N., Ahmed Regina, Leenakumary S.,
Joseph C.A., Rema Devi L., Ambika Devi D.,
Vasudevan Nair K.P.
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1. Crop : Rice
2. Variety : Revathy (MO 17)
3. Method of breeding : Pedigree selection
4. Source / parent / pedigree : Cul.12814 x MO 6
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Moncompu
7. Registration / notification details : IC No.263882, Notified as per S.O.NO.837(E)dt.4-9-2002
8. Specific advantages / features : Short duration (105-110 days) variety resistant to BPH and medium resistant to gall midge. Dormancy upto 3 weeks
9. Key characters for identification : Dwarf, medium tillering plants with medium bold grains and red kernel
10. Productivity : 5.5 - 6 t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Suited to all the three seasons especially to additional crop season of Kuttanad. Apply - Organic manure 5t/ha, and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Devika R.,
Rema Bai N., Ahmed Regina, Leenakumary S.,
Joseph C.A., Rema Devi L., Ambika Devi D.,

1. Crop : Rice
 2. Variety : Karishma (MO 18)
 3. Method of breeding : Pedigree selection
 4. Source / parent / pedigree : MO 1 x MO 6
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details : Notified as per S.O.NO.837(E)dt.4-9-2002
 8. Specific advantages / features : Medium duration (115-120 days) variety resistant to BPH and medium resistant to gall midge. Tolerant to iron toxicity
 9. Key characters for identification : Dwarf, medium tillering plants with medium bold grains and red kernel
 10. Productivity : 5 - 5.5 t/ha
 11. Area of adaptation : Suited to *kari* lands of Kuttanad
 12. Tips on cultivation manure- : Suited to all the three seasons, Apply - Organic 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Rema Bai N.,
Devika R., Ahmed Regina, Leenakumari S., Joseph C.A.,
Madhusoodanan Nair, Soosamma Jacob, Rema Devi L,
Vasudevan Nair K.P.
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1. Crop : Rice
2. Variety : Krishnanjana (MO 19)
3. Method of breeding : Pedigree selection
4. Source / parent / pedigree : MO 1 x MO 6
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Moncompu
7. Registration / notification details : Notified as per S.O.NO.837(E)dt.4-9-2002
8. Specific advantages / features : High yielding, short duration(105-110 days), resistant to BPH and tolerant to iron toxicity. Dormancy upto 3 weeks.
9. Key characters for identification : Medium tillering with medium bold grains and red kernel
10. Productivity : 5 - 5.5 t/ha
11. Area of adaptation : Suited to *kari* lands of Kuttanad
12. Tips on cultivation : Suited to all seasons. Apply - Organic manure 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Rema Bai.N.,
Devika.R., Smt. Ahmed Regina, Leenakumari. S.,
Joseph.C.A., Madhusoodanan Nair, Soosamma Jacob,
Rema Devi. L, Vasudevan Nair. K.P.

1. Crop : Rice
 2. Variety : **Gouri (MO 20)**
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : MO 4 x Cul. 25331
 5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details :
 8. Specific advantages / features : Medium duration (115–120 days), moderately resistant to major pests like BPH; leaf roller and gall midge and diseases like sheath blight and sheath rot.
 9. Key characters for identification : Semi-tali (94.5 cm), medium tillering and non-lodging plants with medium bold, red kernelled grains
 10. Productivity : 5.8 t/ha
 11. Area of adaptation : Suitable for Kuttanad and *kole* areas
 12. Tips on cultivation : Apply - Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : R. Devika,
Reema Bai.N., Leenakumari. S., Joseph.C. A., Rema Devi. L.,
Vasudevan Nair. K. P.
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1. Crop : Rice
2. Variety : **Prathyasha (MO - 21)**
3. Method of breeding : Pedigree method
4. Source / parent / pedigree : IET 4786 x MO8 (Aruna)
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : RRS, Moncompu
7. Registration / notification details : IC 583749, 2010 - 55th Central Sub Committee meeting
8. Specific advantages / features : Moderately tolerant to gall midge, BPH, sheath blight and sheath rot. High yielding with duration 25 days lesser than Uma. Grains contain higher Iron and Zinc
9. Key characters for identification : Semi dwarf, non lodging, photo insensitive, long bold and red kernel.
10. Productivity : 5.5 t/ha
11. Area of adaptation : Irrigated areas of Kuttanad.
12. Tips on cultivation : Seed to flowering 70-80 days. Seed rate 100 kg/ha for broadcasting and 80 kg/ha for transplanting.
13. Scientists responsible for developing the variety : Devika.R
Leenakumari.S, Rema Bai.N, Surendran.M,
Annie Koruth, Abraham Varghese

1. Crop : Rice
2. Variety : Lekshmi (KYM 1)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Kottarakkara I x Poduvi
5. Year of release and authority : 1981 - Kerala State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details : IC No.397779, Notified as per S.O.NO.19 (E) dt.14-1-82
8. Specific advantages / features : Sturdy, photosensitive, long duration (165-180 days) variety with high straw yield. Moderately resistant to blast, leaf spot, stem borer and case worm.
Hulling % - 80
9. Key characters for identification : Tall (128 cm) and non-lodging plants with long, bold grains and red kernel.
10. Productivity : 4 t/ha
11. Area of adaptation : Eastern laterite regions of southern districts and sandy tracts of Onattukara
12. Tips on cultivation : Suited to mundakan season in double crop wetlands characterized by waterlogged deep soils. Apply - Organic manure - 5t/ha and NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Sreedhara Kurup. A.E.,
Santhakumari. S.

1. Crop : Rice
2. Variety : Bhagya (KYM 2)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Tadukkan x Jaya
5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details :
8. Specific advantages / features : Photo insensitive, short duration (95 to 100 days) variety suitable for dry sowing. Tolerant to drought in the early growth phases, moderately tolerant to blight, stem borer, leaf roller and case worm.
9. Key characters for identification : Semi tall (115 cm), non-lodging plants with light brown grains and red kernel
10. Productivity : 4.4 t/ha
11. Area of adaptation : Onattukara and Eastern laterite regions of South Kerala
12. Tips on cultivation : Suited to dry sown crop (*Virippu* season) Apply - Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Santhakumari.S.

1. Crop : Rice
2. Variety : Onam (KYM 3)
3. Method of breeding : Recombination breeding
4. Source / parent / pedigree : Kochuvithu x T(N)-I X Triveni
5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details :
8. Specific advantages / features : Photo insensitive, short duration (95 days) variety suitable for dry sowing. Tolerant to drought in the early growth phase, resistant to BPH and tolerant to sheath blight and blast.
9. Key characters for identification : Semi tall (105 cm), non-lodging plants with light brown grains and red kernel
10. Productivity : 4 t/ha
11. Area of adaptation : Onattukara region
12. Tips on cultivation : Suited to dry sown crop (*Virippu* season) Apply-Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Santhakumari.S.

1. Crop : Rice
2. Variety : Dhanya (KYM 4)
3. Method of breeding : Recombination breeding
4. Source / parent / pedigree : Jaya x PTB 4
5. Year of release and authority : 1992 - Kerala State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details : IC No.397780
8. Specific advantages / features : Long duration (165 days), photosensitive variety with high straw yield; tolerant to drought in later stages. Moderately resistant to leaf roller, stem borer, sheath blight and blast.
9. Key characters for identification : Tall (141 cm), medium lodging plants with medium bold grains and red kernel colour
10. Productivity : 4.3 t/ha
11. Area of adaptation : Onattukara region
12. Tips on cultivation : Suited to *Mundakan* season, Apply - Organic manure - 5t/ha and NPK - 60:30:30 kg/ha
13. Scientists responsible for developing the variety : Sreekumaran Nair.S.

1. Crop : Rice
 2. Variety : Sagara (KYM 5)
 3. Method of breeding : Mass Selection
 4. Source / parent / pedigree : Oorumundakan local
 5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
 6. Evolved at : ORARS, Kayamkulam
 7. Registration / notification details : IC No.397781
 8. Specific advantages / features : Highly photosensitive, sturdy, heavy tillering long duration (180 to 190 days) variety highly tolerant to salinity and flood. Tolerant to blast, sheath blight and stem borer and susceptible to leaf roller.
 9. Key characters for identification : Tall (165 cm), medium lodging plants with brown, short bold grains and red kernel colour.
 10. Productivity : 5 t/ha
 11. Area of adaptation : *Oru mundakan* area
 12. Tips on cultivation : Suited to Mundakan season in single crop of coastal saline, ill drained situation Apply - Organic manure- 5t/ha and NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Sivan Pillai.K.,
Sukumaran Nair.S., Suja.G.
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1. Crop : Rice
2. Variety : Makaram (KTR-2)
3. Method of breeding : Mass selection
4. Source / parent / pedigree : Cheradi local
5. Year of release and authority : 1998 - 19th Kerala Kerala State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details : IC No.397782 Notified as per S.O.NO.837(E)dt.4-9-2002
8. Specific advantages / features : Strongly photosensitive, long duration (168 days) variety tolerant to major pests and diseases.
9. Key characters for identification : Tall (111cm) plants with long panicles having large no. of grains. Kernel colour is red.
10. Productivity : 5.2 t/ha
11. Area of adaptation : Suited to cherady tracts during Mundakan season
12. Tips on cultivation : Apply - Organic manure - 5t/ha and NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Sverup John,
Mohanakumaran.N., Vijayagopal.P.D.,
Raimachandran Nair. N., Kunjamma P. Mathew,
Vasanthakumar.K.

1. Crop : Rice
 2. Variety : Kumbham (KTR-3)
 3. Method of breeding : Mass selection
 4. Source / parent / pedigree : Cheradi local
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : ORARS, Kayamkulam
 7. Registration / notification details : IC No.397783, Notified as per S.O.NO.837(E)dt.4-9-2002
 8. Specific advantages / features : Strongly photosensitive, long duration (165-178 days) variety tolerant to major pests and diseases and also to lodging
 9. Key characters for identification : Tall (95 cm) variety with bold grains and red kernel.
 10. Productivity : 4.7 t/ha
 11. Area of adaptation : Suited to Cheradi tracts during Mundakan season
 12. Tips on cultivation : Apply - Organic manure - 5t/ha and NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Sverup John,
Mohanakumaran.N., Vijayagopal.P.D.,
Ramachandran Nair. N. Kunjamma P. Mathew,
Vasantha kumar.K.
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1. Crop : Rice
2. Variety : Chingam
3. Method of breeding : Re-Combination breeding
4. Source / parent / pedigree : Mutant PTB 9 x mutant (IR 8 x PTB 8)
5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details : IC No.397784
8. Specific advantages / features : Photo insensitive, short duration (95-100 days) variety suitable for dry sowing. Tolerant to drought during early stages. Non- lodging and non-shattering. Tolerant to stem borer and moderately tolerant to sheath blight and brown leaf spot
9. Key characters for identification : Semi-tall plants with short bold grains and red kernel colour.
10. Productivity : 4.1 t/ha
11. Area of adaptation : Onattukara region
12. Tips on cultivation : Apply-Organic manure-5t/ha and NPK-70:35:35 kg/ha
13. Scientists responsible for developing the variety : Bindu.M.R.,
Sverup John, Alexander.D., Nair.N.R., Suja.G., Indira.M.
Sushamakumari.P., Sukumaran Nair.S.

1. Crop : Rice
 2. Variety : Dhanu
 3. Method of breeding : Mutation breeding
 4. Source / parent / pedigree : PTB 20
 5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
 6. Evolved at : ORARS, Kayamkulam
 7. Registration / notification details : IC No.397785
 8. Specific advantages / features : Long duration (159 days), photo sensitive variety moderately tolerant to sheath blight, brown leaf spot and stem borer. Resistant to shattering. Tolerates drought and flood conditions.
 9. Key characters for identification : Semi-tall (123 cm), non-lodging plants producing grains with red kernel colour.
 10. Productivity : 3.8 t/ha
 11. Area of adaptation : Onattukara region
 12. Tips on cultivation : Suitable for *Mundakan* season Apply -Organic manure-5t/ha and NPK-40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Sverup John, Bindu.M.R., Alexander.D., Nair.N.R., Indira.M., Suja.G. Sushamakumari.P., Sukumaran. S.
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1. Crop : Rice
2. Variety : Thulam
3. Method of breeding : Mutation breeding (Gamma irradiation)
4. Source / parent / pedigree : Local Cheradi
5. Year of release and authority : 2010 - 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details : IC 584687
8. Specific advantages / features : High yield, early maturity, long duration. Suitable for *Mundakan* in Cheradi tract. Tolerant to stem borer, leaf roller, lodging and unexpected flooding.
9. Key characters for identification : Photo sensitive, semi tall, non lodging and non shattering, with red kernel belonging to long duration group (150 days),
10. Productivity : 6.0 t/ha grains + 6.5 t/ha straw
11. Area of adaptation : For *Mundakan* crop of Cheradi tracts.
12. Tips on cultivation : Transplant at 30-45 days after sowing, Apply organic manure 5 t/ha and NPK 60:50:25 kg/ha
13. Scientists responsible for developing the variety : Sverup John Bindhu.M.R, Alexander.D, Susamma P. George, Sushamakumari.P, Vilasini.T.N, Indira.M, Suja.G

1. Crop : Rice
 2. Variety : Vyttila 3
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : Vyttila 1 x T (N) 1
 5. Year of release and authority : 1987 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Vyttila
 7. Registration / notification details : IC No. 263761
 8. Specific advantages / features : Photoinsensitive, medium duration (110 to 115 days) variety with good cooking quality. Tolerant to salinity, soil acidity and to major pests and diseases. Escapes flood and water stagnation.
 9. Key characters for identification : Tall(160 cm) plants susceptible to lodging and with long bold grains. Kernel colour red
 10. Productivity : 2 - 2.5 t/ha
 11. Area of adaptation : Pokkali region
 12. Tips on cultivation : Suited to Virippu season Apply Organic manure - 5t/ha and NPK - 20:40:0 kg/ha
 13. Scientists responsible for developing the variety : George,T.U.
Tomy.P.J.
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1. Crop : Rice
2. Variety : Vyttila 4
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Chettivirippu x IR 4630-22-2-17
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Vyttila
7. Registration / notification details : IC No. 263765
8. Specific advantages / features : Photo insensitive, medium duration (120 to 125 days) variety with good cooking quality. Tolerant to salinity and soil acidity, escapes flash floods and water stagnation. Tolerant to major pests and diseases.
9. Key characters for identification : Tall (161 cm) plants having lodging habit with kneeling ability. Produces straw coloured, medium bold grains with red kernel.
10. Productivity : 3.25 t/ha
11. Area of adaptation : Pokkali region - tidal wet lands and coastal saline single crop rice fields of Ernakulam and Alappuzha districts
12. Tips on cultivation : Suited to *Virippu season* ; Apply - NPK-20:40:0 kg/ha
13. Scientists responsible for developing the variety : George.T.U.
George.K.M., Shylaraj.K.S., Tomy. P.J.,
Reena Grittle Pinhero

1. Crop : Rice
 2. Variety : Vyttila 5
 3. Method of breeding : Mutation
 4. Source / parent / pedigree : Mashuri
 5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
 6. Evolved at : RRS, Vyttila
 7. Registration / notification details : IC No. 470140
 8. Specific advantages / features : Non-photosensitive, medium duration (115 days) variety with seed dormancy of two weeks. Hulling %- 82
 9. Key characters for identification : Tall (140 cm) and moderately lodging plants with golden seed coat and white kernel.
 10. Productivity : 3.25 t/ha
 11. Area of adaptation : *Pokkali* rice ecosystem and flood prone and deep water areas
 12. Tips on cultivation : Suited for *Virippu* season; Apply- NPK - 20:40:0 kg/ha
 13. Scientists responsible for developing the variety : George.T.U.
George.K.M., Shylaraj.K.S., Sasidharan.N.K.
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1. Crop : Rice
2. Variety : VTL- 6
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : (Cheruvirippu x IR.5) x Jaya
5. Year of release and authority : 2004 - Kerala State Seed Sub Committee meeting
6. Evolved at : RRS, Vyttila
7. Registration / notification details : IC No. 470140
8. Specific advantages / features : Medium duration (105–110 days), non-photosensitive, tolerant to salinity, acidity and water stagnation. Hulling %- 80 ,
9. Key characters for identification : Generally semi tall (115-120 cm) and non- lodging plants with light green leaves. Auricles absent. Golden seed coat and red kernel.
10. Productivity : 3.5 t/ha
11. Area of adaptation : *Pokkali* and other waterlogged coastal saline areas.
12. Tips on cultivation : Suited to *Virippu* season; Apply - NPK- 20:40:0 kg /ha
13. Scientists responsible for developing the variety : Shylaraj. K.S.
George.K.M., Sivan Pillai, Sreekumaran.V.,
Rajendran.C.G., Anilakumar. K., Sasidharan.N. K.

1. Crop : Rice
 2. Variety : VTL -7
 3. Method of breeding : Hybridization followed by selection
 4. Source/parent/ pedigree : IR-8 X Patnai-23
 5. Year of release and authority : 2006- 23rd Kerala State Seed Subcommittee meeting.
 6. Evolved at : Rice Research Station, Vyttila.
 7. Registration/Notification details : IC 583747
 8. Specific advantages/features : Semi-tall, non-lodging variety having tolerance to salinity, acidity and flood.
 9. Key characters for identification : Medium duration, Long slender white grains
 10. Productivity : 4t/ha (Average); 4.5t/ha (Potential)
 11. Area of adaptation : Pokkali and other waterlogged coastal saline areas
 12. Tips on cultivation : Seed rate 100 kg/ha, plant at closing spacing of 20 x 15 cm, duration 115-120 days
 13. Scientists responsible for developing the variety : Shylaraj K. S
George K. M, Sivan Pillai, Sasidharan N. K
Sreekumaran V, Rajendran C. G, Anilakumar K.
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1. Crop : Rice
2. Variety : VTL 8
3. Method of breeding : Hybridization followed by selection
4. Source / parent / pedigree : IR 47310-94-4-1 x CSR 10
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : IRRS Vyttila
7. Registration / notification details : IC 583748, 2010 - 55th Central Sub Committee meeting
8. Specific advantages / features : High yield, semi tall, tolerant to salinity (8 dS/m), acidity and submergence
9. Key characters for identification : Photo insensitive, 130-135 cm height, non lodging, medium bold, awn less red kernel variety
10. Productivity : 4.05 t/ha
11. Area of adaptation : Pokkali rice eco system
12. Tips on cultivation : 85 days for 50% flowering and 115 days from seed to seed. Seed rate 100kg/ha
13. Scientists responsible for developing the variety : Shylaraj.K.S
George. K.M, Sivan Pillai, Sasidharan.N.K,
Sreekumaran.V, Anilakumar.K, Alice Antony

1. Crop : Rice
2. Variety : Arathy (ACV – 1)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : Jaya x PTB 33
5. Year of release and authority : 1992 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yielding, photoinsensitive, medium duration (120 to 127 days) variety. Tolerant to transplanting of over-aged seedlings. Tolerant to sheath blight and sheath rot.
9. Key characters for identification : Semi tall (100 cm), non-lodging plants with long bold grains and red kernel.
10. Productivity : 3.8 t/ha
11. Area of adaptation : Thiruvananthapuram district
12. Tips on cultivation : Suited to Virippu season Apply -Organic manure - 5t/ha and NPK - 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Sreekumar.S.G.
Rema Bai.N., Gopinathan Nair.V., Mohanakumaran.N.

1. Crop : Rice
2. Variety : Hraswa
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : IR - 8 x T -140
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : Agricultural Research Station, Mannuthy
7. Registration / notification details :
8. Specific advantages / features : Extra short duration (75 to 80 days), high yielding variety, suitable for direct seeding. Photoinsensitive, moderately resistant to water stress and tolerant to major pests and diseases.
9. Key characters for identification : Dwarf (80 cm), non-lodging plants with straw coloured, medium bold grains having red kernel.
10. Productivity : 2.9 t/ha
11. Area of adaptation : Kole lands
12. Tips on cultivation : Suited to Punched season; Apply - Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Radhakrishnan.V.V.
Kuriakose.T.F., Gopinathan.R., Ibrahim.K.K.,
Usha.K.E., Maya Devi.P.

1. Crop : Rice
2. Variety : Ahalya (Cul.10-1-1)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : (PTB 10 x TN 1) x TN 1
5. Year of release and authority : 1998 - 19th Kerala State Seed Subcommittee meeting
6. Evolved at : Agricultural Research Station, Mannuthy
7. Registration / notification details :
8. Specific advantages / features : Short duration (90-100 days) variety with good cooking quality. Tolerant to leaf folder and moisture stress in the early growth phase. Moderately resistant to blast.
9. Key characters for identification : Dwarf (85cm) plants with broad leaf lamina, non-drooping, persistently green, erect boot leaf and compact panicle with medium bold grains having red kernel colour.
10. Productivity : 5 t/ha
11. Area of adaptation : Double cropped wet lands especially kole lands
12. Tips on cultivation : Apply - Organic manure-5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Radhakrishnan. V.V.,
Tessy Joseph, Jaikumaran.U., Pushkaran.K.,
Varkey.P.A

1. Crop : Rice
2. Variety : Manu Priya
3. Method of breeding : Hybridization and selection
4. Source/parent/ pedigree : Hybrid derivative of PK 3355 - 5-14xBhadra
5. Year of release and authority : 2006 - 23rd Kerala State Seed Sub.Committee meeting
6. Evolved at : Agricultural Research Station, Mannuthy
7. Registration/Notification details:
8. Specific advantages/features : High yield, photo insensitive, short duration (100-105 days), non-lodging and tolerant to major pests and diseases
9. Key characters for identification : Broad leaves with more number of panicles, higher thousand grain weight, red kernel
10. Productivity : 7 - 8 t/ha
11. Area of adaptation : Wet lands and Kole lands of Central zone of Kerala
12. Tips on cultivation : Transplant 20-22 days after sowing; Apply organic manure 5 t/ha and N:P:K 90:45:45 kg/ha
13. Scientists responsible for developing the variety : Kanakamany M. T.
Jaikumaran U, V. V. Radhakrishnan, Rosamma C. A,
Vidhu F P, Vanaja D..

1. Crop	:	Rice
2. Variety	:	Deepthi (WND – 3)
3. Method of breeding	:	Pedigree selection
4. Source / parent / pedigree	:	Edavaka
5. Year of release and authority	:	1998 - 19 th Kerala State Seed Sub Committee meeting
6. Evolved at	:	RARS, Ambalavayal
7. Registration / notification details	:	Notified as per S.O.NO.837(E)dt.4-9-2002
8. Specific advantages / features	:	Photo insensitive, long duration (150-160 days) variety moderately resistant to blast, leaf folder, stem borer and drought conditions
9. Key characters for identification	:	Semi-tall variety with red kernel colour
10. Productivity	:	4 t/ha
11. Area of adaptation	:	Wayanad and Idukki districts
12. Tips on cultivation	:	Apply -Organic manure - 5t/ha and NPK - 40:20:20kg/ha
13. Scientists responsible for developing the variety	:	Susamma P. George, Kannan K., Sansamma George, Manomohan Das T.P., George C.M., Pillai G. R., Pillai P. B., Kumaran.K., Aipe K.C.

1. Crop	:	Rice
2. Variety	:	Kunjukunju Varna
3. Method of breeding	:	Pure line selection (Farmer Participatory)
4. Source / parent / pedigree	:	Kunjukunju, a local rice cultivar
5. Year of release and authority	:	2002 - 21 st Kerala State Seed Sub Committee meeting
6. Evolved at	:	College of Horticulture, Vellanikkara Palakkad District Panchayat, GALASA, Anchathani & Nenmeni Padasekharams, Palakkad
7. Registration / notification details	:	
8. Specific advantages / features	:	Photo insensitive, short duration (110-115 days) variety, moderately tolerant to major pests. Suitable for double cropped areas, for direct seeding and transplanting.
9. Key characters for identification	:	Semi-tall, non- lodging plants with purple pigmented leaf sheath and apiculus. Red coloured kernel.
10. Productivity	:	5.3 t/ha
11. Area of adaptation	:	Double cropped areas of Palakkad, Thrissur and Ernakulam districts
12. Tips on cultivation	:	Apply - Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety	:	Elsy C.R., Gopinathan R., Radhakrishnan V.V., Karunakaran K., Estellita S., Jose Mathew, Rose Mary Francis, Vimi Louis, Karthikeyan K., Raji P., Pushkaran K.

1. Crop : Rice
2. Variety : Kunjukunju Priya
3. Method of breeding : Pure line selection (Farmer participatory)
4. Source / parent / pedigree : Kunjukunju, a local rice cultivar
5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
6. Evolved at : College of Horticulture, Vellanikkara
Palakkad District Panchayat, GALASA,
Anchathani & Nenmeni Padasekharams, Palakkad
7. Registration / notification details :
8. Specific advantages / features : Photo insensitive, short duration (105--110 days) variety moderately tolerant to major pests. Suitable for double cropped areas, for direct seeding and transplanting
9. Key characters for identification : Semi-tall, non-lodging plants with short bold grains and red kernel.
10. Productivity : 5.2 t/ha
11. Area of adaptation : Palakkad, Ernakulam and Thrissur districts
12. Tips on cultivation : Suited to *Virippu and Mundakan* seasons
Apply - Organic manure - 5t/ha and NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Elsy C.R.,
Gopinathan R., Radhakrishnan V.V., Karunakaran K.,
Estellita S., Jose Mathew, Rose Mary Francis,
Vimi Louis, Karthikeyan K., Raji P., Pushkaran K.

1. Crop : Rice (*oryza sativa*)
2. Variety : Ezhome 1
3. Method of breeding : Pedigree method of breeding
4. Source / parent / pedigree : Jaya x Kuthiru
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : Pepper Research Station, Panniyur
7. Registration / notification details : IC 557500
8. Specific advantages / features : High yielding, non lodging, tolerant to medium salinity and flooding. Resistant to gall midge, leaf folder, case worm and moderately resistant to whirl maggot, sheath blight and bacterial leaf blight
9. Key characters for identification : Plant height 100-110 cm, photo insensitive, non lodging with strong and sturdy culms. Non shattering variety with dormancy of 25 days. Leaf sheath green, apiculus purple at flowering, grains extra long, awnless and red kernel.
10. Productivity : 3.5 t/ha
11. Area of adaptation : Saline prone Kaipad tracts of N. Kerala.
12. Tips on cultivation : 115-125 days from seed to 50 % flowering. Seed rate 80-100kg/ha for sowing sprouted seeds on mounds, suitable for organic rice production.
13. Scientists responsible for developing the variety : Vanaja.T
Neema.V.P, Mammotty.K.P, Balakrishnan.P.C,
Jayaprakash Naik, Jayaraj.P, Raji.P, Karthikeyan

1. Crop : Rice (*oryza sativa*)
2. Variety : Ezhome 2
3. Method of breeding : Pedigree method of breeding
4. Source / parent / pedigree : Jaya x Orkayma
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : Pepper Research Station, Panniyur
7. Registration / notification details : IC 557503
8. Specific advantages / features : High yield, non lodging, awnless, suitable to saline prone areas and for organic production
9. Key characters for identification : Plant height 110-120 cm, photo insensitive, non lodging with strong and steady culms, non shattering variety with dormancy of 25 days. Leaf sheath green, apiculas non pigmented, medium bold red kernels.
10. Productivity : 3.2 t/ha
11. Area of adaptation : Saline prone Kaipad tracts of N. Kerala.
12. Tips on cultivation : No major incidence of pests and diseases under Kaipad system, Duration 125-130 days, seed rate 80- 100kg/ha. Sow sprouted seeds on mounds.
13. Scientists responsible for developing the variety : Vanaja.T
Neema.V.P, Mammotty.K.P, Balakrishnan.P.C,
Jayaprakash Naik, Jayaraj.P, Raji.P, Karthikeyan

Coconut (*Cocos nucifera L.*)

1. Crop : Coconut
 2. Variety : Lakshaganga
 3. Method of breeding : Hybridization
 4. Source / parent / pedigree : Laccadive Ordinary x Gangabondam
 5. Year of release and authority : 1988 - Kerala State Seed Subcommittee meeting
 6. Evolved at : RARS, Pilicode
 7. Registration / notification details :
 8. Specific advantages / features : Early bearer five years for flowering. Suitable for rain fed conditions also. Tolerant to drought. Weight of copra 195 g , oil content 70.0 %
 9. Key characters for identification : Tall trees with nut weight of 677 g, weight of husked nut 380 g
 10. Productivity : 108 nuts / tree / year
 11. Area of adaptation : Entire state of Kerala
 12. Tips on cultivation : Irrigated areas – NPK @ 1.0 : 0.5 : 2.0 kg/palm/year-
Rain fed areas – and NPK @ 0.5:0.32:1.2 kg/palm/year.
 13. Scientists responsible for developing the variety : Crop Improvement Division of RARS, Pilicode
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1. Crop : Coconut
2. Variety : Keraganga
3. Method of breeding : Hybridization
4. Source / parent / pedigree : West Cost Tall x Gangabondam
5. Year of release and authority : 1989 - Kerala State Seed Sub committee meeting
6. Evolved at : RARS, Pilicode
7. Registration / notification details :
8. Specific advantages / features : Takes five years for flowering and gives 75 % more copra yield (201g) than WCT. Oil content - 69%
9. Key characters for identification : Tall trees with nuts having 20.20 cm polar diameter, 16.45 cm equatorial diameter and 1182 g weight. Weight of husked nut is 780 g and kernel thickness is 1.20 cm.
10. Productivity : 100 nuts / tree / year
11. Area of adaptation : Coastal and midland regions; suitable for rainfed condition also
12. Tips on cultivation : Planting season : May – June, August - September
Irrigated areas – NPK @ 1.0: 0.5: 2.0 kg/palm/annum;
Rainfed areas – NPK @ 0.5:0.32:1.2 kg/palm/ annum
13. Scientists responsible for developing : Balakrishnan.P.C.,
Sukumaran Nair. S. Rajaram.K.P., Kannan.K.
Narayanan Nambiar.P.K.

1. Crop : Coconut
2. Variety : Ananthaganga
3. Method of breeding : Hybridization
4. Source / parent / pedigree : Andaman Ordinary x Gangabondam
5. Year of release and authority : 1989 - Kerala State Seed Subcommittee meeting
6. Evolved at : RARS, Pilicode
7. Registration / notification details :
8. Specific advantages / features : Six years for first harvest. Copra yield (216 g) is 77 % more than WCT. Tolerant to drought. Oil content 68.0 %.
9. Key characters for identification : Tall trees. Nuts with polar diameter 22.6 cm, equatorial diameter 16.85 cm, weight 1100 g and husked nut 795 g, kernel thickness 1.29 cm.
10. Productivity : 95 nuts / tree / year
11. Area of adaptation : Coastal and midland regions. Suitable for rain fed conditions also.
12. Tips on cultivation : Planting season : May-June, August-September
Irrigated areas – NPK @ 1.0: 0.5: 2.0 kg/palm/year
Rain fed areas – NPK @ 0.5:0.32:1.2 kg/palm/year
13. Scientists responsible for developing : Balakrishnan P.C.,
Sukumaran Nair S. Rajaram K.P., Nair R.R., Kannan K. Narayanan Nambiar P.K.

1. Crop : Coconut
2. Variety : Kerasree
3. Method of breeding : Hybridization
4. Source / parent / pedigree : West Cost Tall x Malayan Yellow Dwarf
5. Year of release and authority : 1992 - Kerala State Seed Subcommittee meeting
6. Evolved at : RARS, Pilicode
7. Registration / notification details :
8. Specific advantages / features : Six years for first harvest. Adapted to all types of soils, not resistant to pests and diseases, suitable to rain fed conditions also. Copra yield – 216g. Oil content 66%
9. Key characters for identification : Tall trees, light green nuts with polar diameter 17.02 cm, equatorial diameter 16.52 cm and weight of nut 1011 g weight of husked nut 524.65 g, kernel thickness 1.13 cm
10. Productivity : 140 nuts / tree / year
11. Area of adaptation : Coastal and midland regions. Suitable for rainfed conditions.
12. Tips on cultivation : Planting season : May-June, August-September
Irrigated areas – NPK @ 1.0: 0.5:2.0 kg/palm/year
Rainfed areas – NPK @ 0.5:0.32:1.2 kg/palm/year
13. Scientists responsible for developing : Balakrishnan. P.C.,
Neema V.P., Kannan K., Narayanan Nambiar P.K,
Rajamony L., Sumangala S Nambiar, Krishnan Nair N.

1. Crop : Coconut
 2. Variety : Kerasowbhagya
 3. Method of breeding : Hybridization
 4. Source / parent / pedigree : WCT x Straight Settlement Apricot
 5. Year of release and authority : 1993 - Kerala State Seed Subcommittee meeting
 6. Evolved at : RARS, Pilicode
 7. Registration / notification details :
 8. Specific advantages / features : Suitable for moderate management conditions, Tolerant to drought. Copra content 196g. Oil content 68%
 9. Key characters for identification : Tall tree with light orange nuts, polar diameter 21.8 cm, equatorial diameter 17.7 cm, nut weight 1091g, weight of husked nut 694 g, kernel thickness 1.3 cm
 10. Productivity : 130 nuts / tree / year
 11. Area of adaptation : Coastal regions
 12. Tips on cultivation : Planting season : May-June, August- September
Irrigated areas – NPK @ 1.0: 0.5: 2.0 kg/palm/year.
Rain fed areas – NPK @ 0.5:0.32:1.2 kg/palm/year
 13. Scientists responsible for developing : Balakrishnan P.C.,
Neema V.P., Kannan K., Narayanan Nambiar P.K,
Rajamony L., Sumangala S Nambiar, Nair R.R,
Jayaprakash Naik R.R , Krishnan Nair N.
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1. Crop : Coconut
2. Variety : Kerasagara
3. Method of breeding : Selection
4. Source/parent/ pedigree : Seychelles (South East Asia)
5. Year of release and authority : 2006- 23rd Kerala State Seed Subcommittee meeting.
6. Evolved at : RARS, Pilicode
7. Registration/Notification details :
8. Specific advantages/features : Takes 8 years for flowering and gives 75% more copra yield (203.4 g) than WCT. Oil content-68%
9. Key characters for identification : Tall palms with light green nuts having 27cm polar diameter, 16.5cm equatorial diameter and 1300g weight. Weight of husked nut 575g and kernel thickness is 1.5cm
10. Productivity : 99 nuts / palm / year
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Plant during May-June or August-September. Apply NPK @ 1:0.5:2 kg/palm/year for irrigated crop
13. Scientists responsible for developing the variety : Jayaprakash Naik B.,
Kannan K., Balakrishnan P.C, K.P.P.Nambiar, Joseph C. A.,
L. Rajamony, Narayanan Nambiar P. K., Ramachandran Nambiar P.K. Abdul Khader K. M, Sumangala S. Nambiar,
Neema V. P.

Cashew (*Anacardium occidentale* L.)

1. Crop : Cashew
 2. Variety : Anakkayam – 1
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Bapatla collection – Tree 139 - 1
 5. Year of release and authority : 1982 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Cashew Research Station, Anakkayam
 7. Registration / notification details : IC No. 302054
 8. Specific advantages / features : Early variety, vigorous and short flowering duration. Shelling % - 27.99
 9. Key characters for identification : Compact canopy with intensive branching habit. Pinkish yellow apples
 10. Productivity : 12 kg/ tree/ year
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Planting time - June-July. Spacing : 7.5-10m. Apply NPK 750:325:750g/tree
 13. Scientists responsible for developing the variety : Crop Improvement Division of CRS, Anakkayam
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1. Crop : Cashew
2. Variety : Dharasree (H-3-17)
3. Method of breeding : Hybridization
4. Source / parent / pedigree : Tree no. 30 x Brazil - 18
5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
6. Evolved at : Cashew Research Station, Anakkayam
7. Registration / notification details : IC No. 302055
8. Specific advantages / features : Moderately spreading variety with high yield, bold nut size, superior grade kernel, and moderately tolerant to stem borer and tea mosquito. Shelling % - 30.5
9. Key characters for identification : Erect, tall, moderately spreading and intensively branching plants. Apple colour - yellowish pink
10. Productivity : 15.02 kg / tree/ year
11. Area of adaptation : Throughout Kerala.
12. Tips on cultivation : Spacing - 7.5 x7.5m. Apply NPK - 750:325:750 g/tree
13. Scientists responsible for developing the variety : Nalini P.V.
Pushpalatha P.B., Chandy K.C., Sreekantan Nair G.

1. Crop : Cashew
2. Variety : Sulabha (K-10-2)
3. Method of breeding : Introduction and selection
4. Source / parent / pedigree : T 28 of RCRS, Kottarakkara
5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
6. Evolved at : Cashew Research Station, Anakkayam
7. Registration / notification details : IC No. 302079
8. Specific advantages / features : High yield with superior nut characters. Tolerant to drought and moderately resistant to tea mosquito and stem borer. Apple characters are also good. Shelling % - 29.4. Export grade - W210
9. Key characters for identification : Moderately spreading trees with light orange apples.
10. Productivity : 21.9 kg / tree/ year
11. Area of adaptation : All over Kerala. Suited to laterite and red loam soils
12. Tips on cultivation : Spacing – 7.5m x 7.5m. Apply NPK - 750:325:750 g/tree
13. Scientists responsible for developing the variety : Nalini P.V.
Pushpalatha P.B., Chandy K.C., Sreekantan Nair G.

1. Crop : Cashew
2. Variety : Anagha (H-8-1)
3. Method of breeding : Hybridization and Selection
4. Source / parent / pedigree : Tree 20 x K-30-1
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Cashew Research Station, Anakkayam
7. Registration / notification details : IC No.302087 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : Mid season variety with. shelling % - 29. Export grade- W180
9. Key characters for identification : Intensively branched compact canopy and orange red apples
10. Productivity : 13.7 kg/tree/year
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Planting - June-July; Spacing - 7.5m-10m; Apply NPK - 750:325:750 g/tree
13. Scientists responsible for developing the variety : Crop Improvement Division of CRS, Anakkayam

1. Crop : Cashew
2. Variety : Akshaya (H-7-6)
3. Method of breeding : Hybridization and Selection
4. Source / parent / pedigree : H-4-7 x K-30-1
5. Year of release and authority : 1998 - 19th State Seed Sub committee meeting
6. Evolved at : Cashew Research Station, Anakkayam
7. Registration / notification details : IC No. 302086, 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : Mid season variety with shelling % - 28.36
9. Key characters for identification : Compact canopy and intensive branching. Yellow apples.
10. Productivity : 11.78 kg/ tree/ year
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Planting June-July. Spacing - 7.5m - 10m.
Apply NPK - 750:325:750 g/tree
13. Scientists responsible for developing the variety : Crop Improvement Division of CRS, Anakkayam

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1. Crop : Cashew
 2. Variety : Sree
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Anakkayam-1
 5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
 6. Evolved at : CRS, Anakkayam
 7. Registration / notification details :
 8. Specific advantages / features : High yield, bold nuts (export grade - W 180), high shelling percentage, early flowering, tolerant to tea mosquito bug. Apple with high TSS and suitable for processing
 9. Key characters for identification : Golden yellow and medium sized apple
 10. Productivity : 23.78 kg/tree
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Early and harvest can be completed before April.
 13. Scientists responsible for developing the variety : Rajendran.P
Abdurazak.M, Nalini.P.V, Chandy.K.C,
Sreekantan Nair.G, Nandini.K, Raju.V.K

1. Crop : Cashew
 2. Variety : K-22-1
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Kottarakkara 22
 5. Year of release and authority : 1987 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Cashew Research Station, Madakkathara
 7. Registration / notification details : IC No. 250126
 8. Specific advantages / features : Mid season flowering, shelling % -26.5
 9. Key characters for identification : Extensive branching. Apples red in colour
 10. Productivity : 13.2 kg / tree / year
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Planting time - June-July; Spacing - 7.5-10m.
Apply NPK - 750:325:750 g/tree
 13. Scientists responsible for developing the variety : Crop Improvement Division of CRS, Madakkathara
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1. Crop : Cashew
2. Variety : Madakkathara - 1
3. Method of breeding : Selection
4. Source / parent / pedigree : Bapatla collection – Tree 39-4
5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
6. Evolved at : Cashew Research Station, Madakkathara
7. Registration / notification details : IC No. 249792
8. Specific advantages / features : Mid season (Nov – Dec) flowering, medium sized nuts, Shelling % - 26.8
9. Key characters for identification : Erect growth and extensive branching. Apples yellow in colour
10. Productivity : 13.8 kg / tree / year
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Planting: June – July; Spacing - 7.5-10m.
Apply NPK 750:325:750 g/tree
13. Scientists responsible for developing the variety : Crop Improvement Division of CRS, Madakkathara

1. Crop : Cashew
 2. Variety : Madakkathara – 2 (NDR – 2 – 1)
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Local collection from Thaliparamba
 5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
 6. Evolved at : CRS, Madakkathara
 7. Registration / notification details : IC No. 250127
 8. Specific advantages / features : Late flowering, export grade kernels - W. 210
 9. Key characters for identification : Semi erect trees with intensive branching
 10. Productivity : 17.14 kg / tree / year
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Planting: June – July. Spacing - 7.5-10m.
Apply NPK - 750:325:750 g/tree
 13. Scientists responsible for developing the variety : Crop Improvement Division of CRS,
Madakkathara
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1. Crop : Cashew
2. Variety : Kanaka (H-1598)
3. Method of breeding : Hybridization
4. Source / parent / pedigree : Anakkayam 1 x H-3-13
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : Cashew Research Station, Madakkathara
7. Registration / notification details : IC No. 250129
8. Specific advantages / features : Mid season variety with export grade nuts.
Shelling % - 30.58
9. Key characters for identification : Nuts are bold with mean weight of 8.2 g.
Apple colour yellow
10. Productivity : 13.36 kg / tree/ year
11. Area of adaptation : Laterite and red loam soils of Kerala
12. Tips on cultivation : Planting June /July. Spacing - 7.5m-10m.
Apply NPK - 750:325:750 g/tree
13. Scientists responsible for developing the variety : Scientists under Co-ordinated Cashew Improvement
Project

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|---|---|---|
| 1. Crop | : | Cashew |
| 2. Variety | : | Dhana (H-1608) |
| 3. Method of breeding | : | Hybridization |
| 4. Source / parent / pedigree | : | LGD 1-1 x K 30-1 |
| 5. Year of release and authority | : | 1993 - Kerala State Seed Subcommittee meeting |
| 6. Evolved at | : | Cashew Research Station, Madakkathara |
| 7. Registration / notification details | : | IC No. 250128 |
| 8. Specific advantages / features | : | Bold nuts, good shelling percentage (29.8), good export grade – W 210 |
| 9. Key characters for identification | : | Erect and tall plants with compact canopy and intensively branching habit |
| 10. Productivity | : | 10.86 kg / tree / year |
| 11. Area of adaptation | : | Throughout Kerala |
| 12. Tips on cultivation | : | Planting: June - July. Spacing - 7.5-10m.
Apply NPK - 750:325:750 g/tree |
| 13. Scientists responsible for developing the variety | : | Scientists under Co-ordinated Cashew Improvement Project |
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|---|---|---|
| 1. Crop | : | Cashew |
| 2. Variety | : | Priyanka (H-1591) |
| 3. Method of breeding | : | Hybridization |
| 4. Source / parent / pedigree | : | BLA 139-1 x K 30-1 |
| 5. Year of release and authority | : | 1996 - Kerala State Seed Sub Committee meeting |
| 6. Evolved at | : | Cashew Research Station, Madakkathara |
| 7. Registration / notification details | : | IC No. 250140, 2002 - 9 th Central Sub Committee meeting |
| 8. Specific advantages / features | : | Jumbo nuts |
| 9. Key characters for identification | : | Erect, tall plants with spreading canopy and extensive branching |
| 10. Productivity | : | 16.9 kg/tree/year |
| 11. Area of adaptation | : | Throughout Kerala |
| 12. Tips on cultivation | : | Planting - June-July; Spacing - 7.5m-10m;
Apply NPK - 750:325:750 g/tree |
| 13. Scientists responsible for developing the variety | : | Damodaran.V.K. and others |

1. Crop : Cashew
 2. Variety : Amrutha (H-1597)
 3. Method of breeding : Hybridization
 4. Source / parent / pedigree : BLA- 139 -1 x H-3-13
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : Cashew Research Station, Madakkathara
 7. Registration / notification details : IC No. 302065, 2002 - 9th Central Sub Committee meeting
 8. Specific advantages / features : Mid season variety. Export grade nuts – W. 210. Shelling % - 31.58
 9. Key characters for identification : Erect and tall plants with spreading canopy, Yellow apples
 10. Productivity : 17.6 kg / tree / year
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Planting: June – July; Spacing - 7.5m-10m. Apply NPK - 750:325:750 g/tree
 13. Scientists responsible for developing the variety : Damodaran V.K. and others
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1. Crop : Cashew
2. Variety : Damodar (H-1600)
3. Method of breeding : Hybridization
4. Source / parent / pedigree : Anakkayam 1x H 3-13
5. Year of release and authority : 2002- 21st State Seed Sub Committee meeting
6. Evolved at : Cashew Research Station, Madakkathara
7. Registration / notification details : IC No. 302066
8. Specific advantages / features : Bold nuts with mean weight of 8.2g. Export grade - W 210. Apple with 53.26% juice content. Shelling % - 27.27. Tolerant to tea mosquito
9. Key characters for identification : Golden yellow apple with bold nuts
10. Productivity : 13.36 kg /tree
11. Area of adaptation : Suited to all regions of Kerala except high altitude.
12. Tips on cultivation : Planting - June - July; Spacing - 7.5m-10m; Apply NPK - 750:325:750 g/tree
13. Scientists responsible for developing the variety : Damodharan V. K. Veeraraghavan P.G., Vidhyadharan, Sreekandan Nair G., Abdul Salam, Seetha Rama Rao M., Mallika V. K., Jayalekshmi V. G., Pushpalatha P. B., George T. E., Suma B., Susannamma Kurien, Pathummal Beevi, Celine V.A., Usha K. E., Joseph, Aravindakshan K. E. , Gopi C. S., Jagadeeshkumar and John P.S.

1. Crop : Cashew
 2. Variety : Flaghav (H-1610)
 3. Method of breeding : Hybridization
 4. Source / parent / pedigree : (ALGD-1-1 x K-30-1)
 5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
 6. Evolved at : Cashew Research Station, Madakkathara
 7. Registration / notification details : IC No. 302068
 8. Specific advantages / features : Bold nuts - with export grade of W 210. Apple has 58.92 % juice content
 9. Key characters for identification : Golden yellow apple and bold nuts
 10. Productivity : 14.65 kg/tree/year
 11. Area of adaptation : Suited to laterite and red loam soils of Kerala
 12. Tips on cultivation : Planting - June-July; Spacing - 7.5m-10m;
Apply NPK - 750:325:750 g/tree
 13. Scientists responsible for developing the variety : Damodaran V. K.
Veeraraghavan P.G., Vidhyadharan, Sreekandan Nair.G.,
Abdul Salam, Seetha Rama Rao.M., Mallika.V. K.,
Jayalekshmi.V. G., Pushpalatha.P. B., George.T. E., Suma B.,
Susannamma Kurien, Pathummal Beevi, Celine.V. A. ,
Usha.K. E., Joseph, Aravindakshan K. E. , Gopi C. S.,
Jagadeeshkumar and John P.S.
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1. Crop : Cashew
2. Variety : Poornima
3. Method of breeding : Hybridization
4. Source/parent/ pedigree : BLA 139-1 x K-30-1
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Cashew Research Station, Madakkathara
7. Registration/Notification details :
8. Specific advantages/features : High yield (14.08kg/tree/year), good nut size (7.8g),
high kernel weight (2.6g), high shelling percent
(31%) and export grade (W 210)
9. Key characters for identification : Upright, compact tree habit with intensive branching
and mid season flowering behaviour.
10. Productivity : 14.08kg/tree/year
11. Area of adaptation : Throughout Kerala except at high altitude
12. Tips on cultivation : Plant seedling during June-July at distance of
7.5 m- 10.0 m
13. Scientists responsible for developing the variety : Vidhyadharan
Damodharan V. K, Vijayaraghavan P. G., Abdul Salam M,
Suma B., Susannamma Kurien, Pathummal Beevi
Seetha Rama Rao, Pushpalatha P. B., Mallika V. K, Usha K. E.
Jayalekshmy V. G, Meagle Joseph, Gopi C. Sub., John P. S.
Mareen Abraham, Jose Mathew, Mini C, Mahapatro G. K.
Gregory Zachariah

Sugarcane (*Saccharum officinarum*)

1. Crop : Sugarcane
 2. Variety : Madhuri (Co T1 88322)
 3. Method of breeding : Biparental crossing
 4. Source / parent / pedigree : Co 740 x Co 775
 5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Sugarcane Reserch Station, Thiruvalla
 7. Registration / notification details :
 8. Specific advantages / features : Good ratooner with good jaggery recovery. Moderately resistant to red rot. Suitable for flood prone areas.
 9. Key characters for identification : Mid late maturity group
 10. Productivity : Cane yield: 120.5 t/ha; C.C.S. yield : 13.55 t/ ha
 11. Area of adaptation : Central Travancore region- low lands with acidic alluvial soils.
 12. Tips on cultivation : Density : 1.32 lakh setts/ha
Apply NPK - 165:82.5:82.5 kg/ha
 13. Scientists responsible for developing the variety : Potty N.N.,
Chandy K.C. and six other scientists
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1. Crop : Sugarcane
2. Variety : Thirumadhuram (Cul. 57/84)
3. Method of breeding : Biparental crossing
4. Source / parent / pedigree : Co 740 x Co 6806
5. Year of release and authority : 1992 - Kerala State Seed Sub Committee meeting
6. Evolved at : Sugarcane Reserch Station, Thiruvalla
7. Registration / notification details :
8. Specific advantages / features : Good jaggery recovery, moderately resistant to red rot, suitable for semi arid tracts as well as flood prone areas.
9. Key characters for identification : Mid late maturity, non-lodging, erect growth with greenish purple stem
10. Productivity : Cane yield: 133 t/ha; CCS yield: 15.14 t/ha
11. Area of adaptation : Semi arid tracts of Palghat districts
12. Tips on cultivation : Density : 1.32 lakh setts/ha
Apply NPK - 165:82.5:82.5 kg/ha
13. Scientists responsible for developing the variety : Chandy K.C.,
Jessy M. Kuriakose and five other scientists

1. Crop : Sugarcane
2. Variety : Madhurima (Cul.527/85)
3. Method of breeding : Biparental crossing
4. Source / parent / pedigree : CO 740 x CO 7318
5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
6. Evolved at : Sugarcane Research Station, Thiruvalla
7. Registration / notification details :
8. Specific advantages / features : High yield, moderately resistant to red rot. Tolerant to drought and water logging. Less incidence of top shoot borer
9. Key characters for identification : Mid-late variety having erect cane with purple colour
10. Productivity : Cane yield : 125 t/ha; CCS yield : 12.02 t / ha
11. Area of adaptation : Central Travancore region and semi arid tracts of Palakkad
12. Tips on cultivation : Density : 1.32 lakh setts/ha
Apply NPK- 165:82.5:82.5 kg/ha
13. Scientists responsible for developing the variety : Potty N.N.,
Chandy K. C., Alexander D..

1. Crop : Sugarcane
2. Variety : Madhumathi (Co 88017)
3. Method of breeding : Biparental crossing
4. Source / parent / pedigree : CO 63 x CO 740
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Sugarcane Research Station, Thiruvalla
7. Registration / notification details :
8. Specific advantages / features : High yield, high jaggery quality and high sugar content. Resistant to red rot disease and tolerant to drought and water logging
9. Key characters for identification : Erect plants with reddish stalk. Rind hard and pith absent. Round, medium sized buds.
10. Productivity : Cane yield : 125 t/ha; CCS yield : 14 tons / ha
11. Area of adaptation : Command areas of Travancore Sugars and Chemicals, Thiruvalla, Mannam Sugar Mills, Pandalam, and Co-operative Sugar Mill, Chittoor. Ideal for garden land flooded areas.
12. Tips on cultivation : Density : 1.32 lakh setts/ha;
Apply NPK - 165:82.5:82.5 kg/ha
13. Scientists responsible for developing the variety : Alexander D.,
Sreekumar K., Thomas Mathew, Babu George, Jessy M. Kuriakose, Elankovan R., Santhakumari S., Ittyaverah P.J., Vasudevan Nair K.P.

Cocoa (*Theobroma cacao*)

1. Crop : Cocoa
 2. Variety : CCRP 1 (M 16.9)
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Local population
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yield and tolerance to vascular streak die back
 9. Key characters for identification : Pods medium sized and green in colour changing to yellow on ripening. Pods have a slight constriction at the base and small blunt beak at the tip with moderately deep ridges and furrows
 10. Productivity : 56 pods/plant/year (wet bean weight – 6.2 kg/plant/yr)
 11. Area of adaptation : All cocoa growing regions of the State
 12. Tips on cultivation : Density - 1100 pl/ha as pure crop and 500-600 as mixed crop of coconut; Apply - NPK- 200:80:280g/tree
 13. Scientists responsible for developing the variety : Vikraman Nair R.,
Mallika V.K., Koshy Abraham, Kumaran K.
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1. Crop : Cocoa
2. Variety : CCRP 2 (M 13.12)
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Local population
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High yield and tolerance to vascular streak die back
9. Key characters for identification : Pods smooth, large sized and green in colour changing to yellow on ripening. Pods almost spherical without any basal constriction and the apex almost obtuse. Ridges and furrows almost absent and the rind is very smooth with a thin pericarp.
10. Productivity : 54 pods/plant/year (wet bean weight – 5.2 kg/plant/year)
11. Area of adaptation : All cocoa growing regions of the State
12. Tips on cultivation : Density - 1100 pl/ha as pure crop and 500-600 as mixed crop of coconut; Apply NPK - 200:80:280g/tree
13. Scientists responsible for developing the variety : Vikraman Nair R.,
Mallika V.K., Koshy Abraham

1. Crop : Cocoa
 2. Variety : CCRP 3 (GI 5.9)
 3. Method of breeding : Single plant selection
 4. Source / parent / pedigree : Germplasm collection
 5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
 6. Evolved at : Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yield and tolerance to vascular streak die back
 9. Key characters for identification : Large number of medium sized green pods changing to yellow on ripening. Pods elliptic with moderate ridges and furrows. A slight constriction present at the base and the apex is slightly acute. The pod surface slightly rugose.
 10. Productivity : 68.5 pods/pl/year (wet bean weight – 6.5 kg/plant/year)
 11. Area of adaptation : All cocoa growing regions of the State
 12. Tips on cultivation : Density- 1100 pl/ha as pure crop and 500-600 as mixed crop of coconut, Apply NPK - 200:80:280g/tree
 13. Scientists responsible for developing the variety : Vikraman Nair R., Mallika V.K., Koshy Abraham
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1. Crop : Cocoa
2. Variety : CCRP 4
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Local population
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara.
7. Registration / notification details :
8. Specific advantages / features : High yield of large pods with high individual bean weight. Tolerant to vascular streak die back
9. Key characters for identification : Pods large with purple tinge turning deep yellow on ripening. Pods beaked with prominent acute tip. Basal constriction shallow or absent and pericarp deeply rugose having deep ridges and furrows.
10. Productivity : 86 pods /tree/year (Wet bean weight 8.3 kg/plant/year)
11. Area of adaptation : All cocoa growing regions of the country
12. Tips on cultivation : Density - 1100 plants/ ha as pure crop and 500-600 as mixed crop of coconut, Apply NPK- 200:80:280g/tree
13. Scientists responsible for developing the variety : Vikraman Nair R., Mallika V.K., Koshy Abraham

1. Crop : Cocoa
 2. Variety : **CCRP 5 (GIV 18.5)**
 3. Method of breeding : Single plant selection
 4. Source / parent / pedigree : Germplasm IV
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yield and tolerant to vascular streak die back
 9. Key characters for identification : Pods large and elliptical and are green when immature. They turn yellow on ripening. Pods have moderately deep ridges and furrows and apex is almost acute.
 10. Productivity : 38 pods/tree/year (Wet bean weight 4.3 kg/tree/year)
 11. Area of adaptation : All cocoa growing regions of the State
 12. Tips on cultivation : Density - 1100 plants/ ha as pure crop and 500-600 as mixed crop of coconut; Apply NPK- 100:40:140 g/tree
 13. Scientists responsible for developing the variety : Vikraman Nair R.,
Mallika V.K., Koshy Abraham
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1. Crop : Cocoa
2. Variety : **CCRP 6 (GVI 55)**
3. Method of breeding : Selection
4. Source / parent / pedigree : Germplasm VI
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High yield and tolerant to vascular streak die back
9. Key characters for identification : Pods very big and green in colour having thick rind. Pods turn yellow on ripening. Pods are almost elliptical without basal constriction, apex obtuse and pod surface is rugose with shallow ridges and furrows. Oven dry bean weight 1.9g
10. Productivity : 50 pods/tree/year (wet bean weight 11.3 kg/tree/year)
11. Area of adaptation : All cocoa growing regions of the State.
12. Tips on cultivation : Density- 1100 plants/ ha as pure crop and 500-600 as mixed crop of coconut; Apply NPK- 200:80:280g/tree
13. Scientists responsible for developing the variety : Vikraman Nair R.,
Mallika V.K., Koshy Abraham

1. Crop	:	Cocoa
2. Variety	:	CCRP 7 (GVI 56)
3. Method of breeding	:	Selection
4. Source / parent / pedigree	:	Germplasm VI
5. Year of release and authority	:	1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at	:	Cadbury KAU Co-op.Cocoa Research Project, College of Horticulture, Vellanikkakra
7. Registration / notification details :		
8. Specific advantages / features	:	High yield and tolerant to vascular streak die back
9. Key characters for identification :		Pods large, elongated and green turning yellow on ripening. Pods beaked with slightly acute apex and a slight basal constriction. Pod surface rugose with moderately deep ridges and furrows.
10. Productivity	:	78 pods/tree/year (Wet bean weight 9.7 kg/tree/year)
11. Area of adaptation	:	All cocoa growing regions of the State
12. Tips on cultivation	:	Density - 1100 pl/ ha as pure crop and 500-600 as mixed crop of coconut, Apply NPK- 200:80:280g/tree
13. Scientists responsible for developing the variety	:	Vikraman Nair R., Mallika V.K., Koshy Abraham

1. Crop	:	Cocoa
2. Variety	:	CCRP 8 (P1 1.21)
3. Method of breeding	:	Hybridization and selection
4. Source / parent / pedigree	:	M 16.9 (CCRP1) x G VI 56 (CCRP 7)
5. Year of release and authority	:	2002 - 21 st State Seed Sub Committee meeting
6. Evolved at	:	Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Veilanikkara
7. Registration / notification details :		
8. Specific advantages / features	:	High yield and tolerant to vascular streak die back
9. Key characters for identification :		Tree producing very vigorous growth with green medium sized pods turning yellow on ripening. Pod apex attenuate, base intermediate and rugosity intermediate.
10. Productivity	:	90 pods /tree/year (11.4 kg wet beans / plant / year)
11. Area of adaptation	:	All cocoa growing regions of the State
12. Tips on cultivation	:	Density- 1100 pl/ ha as pure crop and 500-600 as mixed crop of coconut, Apply- NPK- 200:80:280g/tree
13. Scientists responsible for developing the variety	:	Vikraman Nair R., Mallika V.K., Koshy Abraham, Prasannakumari Amma S., George Thomas C.

1. Crop : Cocoa
 2. Variety : CCRP 9 (S1 H 7.1)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : M 16.9 (CCRP1) x G II 19.5 (CCRP 4)
 5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
 6. Evolved at : Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara
 7. Registration / notification details:
 8. Specific advantages / features : High yield and tolerant to vascular streak die back under field conditions
 9. Key characters for identification : Tree producing very vigorous growth with green medium sized pods turning yellow on ripening, apex attenuate, base strong, rugosity intermediate.
 10. Productivity : 106 pods /tree/year (8.97 kg wet beans / plant / year)
 11. Area of adaptation : All cocoa growing regions of the State
 12. Tips on cultivation : Density- 1100 plants/ ha as pure crop and 500-600 as mixed crop of coconut, Apply NPK- 200:80:280g/tree
 13. Scientists responsible for developing the variety : Vikraman Nair R., Mallika V.K., Koshy Abraham, Prasannakumari Amma S., George Thomas C.
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1. Crop : Cocoa
2. Variety : CCRP 10 (S11 H 4.13)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : CCRP 3 x GV 168
5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
6. Evolved at: Cadbury KAU Co-op. Cocoa Research Project, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High yield and tolerance to vascular streak die back under field conditions
9. Key characters for identification : Tree producing very vigorous growth with green medium sized pods turning yellow on ripening. Pod apex attenuate, base intermediate, rugosity intermediate.
10. Productivity : 80 pods /tree/year (8.15 kg wet beans / plant / year)
11. Area of adaptation : All cocoa growing regions of the State.
12. Tips on cultivation : Density- 1100 pl/ ha as pure crop and 500-600 as mixed crop of coconut, Apply NPK- 200:80:280g/tree
13. Scientists responsible for developing the variety : Vikraman Nair R., Mallika V.K., Koshy Abraham, Prasannakumari Amma S., George Thomas C.

Vegetable Crops

- | | | |
|---|---|--|
| 1. Crop | : | Brinjal (<i>Solanum melangena L.</i>) |
| 2. Variety | : | Surya (SM 6-7) |
| 3. Method of breeding | : | Single Plant Selection |
| 4. Source / parent / pedigree | : | SM 6 |
| 5. Year of release and authority | : | 1990 - Kerala State Seed Sub Committee meeting
1992 - Central Sub Committee meeting |
| 6. Evolved at | : | Department of Olericulture, College of Horticulture |
| 7. Registration / notification details | : | IC No. 415084 |
| 8. Specific advantages / features | : | Resistant to bacterial wilt caused by <i>Ralstonia solanacearum</i> E.F. Smith. Duration 5-6 months |
| 9. Key characters for identification | : | Non-prickly stem and leaves. Green leaves with violet tinged vein. Glossy, oval and medium sized purple coloured fruits. Fruit length 8.16 cm and weight 90 g. Days to first harvest 70 days |
| 10. Productivity | : | 30 t/ha |
| 11. Area of adaptation | : | Throughout the country where bacterial wilt is a problem |
| 12. Tips on cultivation | : | Season : May - June and September - October;
Seed rate : 500 g/ha; Spacing : 60 x 60 cm.
Apply NPK 75:40:25 kg/ha |
| 13. Scientists responsible for developing the variety | : | Gopalakrishnan T.R.,
Ushamani P. |
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|---|---|---|
| 1. Crop | : | Brinjal |
| 2. Variety | : | Swetha (SM 6-6) |
| 3. Method of breeding | : | Single plant selection |
| 4. Source / parent / pedigree | : | SM-6 |
| 5. Year of release and authority | : | 1996 - 18 th Kerala State Seed Sub Committee meeting
1997 - Central Sub Committee meeting |
| 6. Evolved at | : | Department of Olericulture, College of Horticulture |
| 7. Registration / notification details | : | IC No.415085, Notified as per Gazette notification No. 17-102/97 SD – IV, GOI, MOA, DAC, New Delhi dt. 21/09/1998 |
| 8. Specific advantages / features | : | Resistant to bacterial wilt, early harvesting with short span, ideal for close planting, excellent cooking quality. Duration 4.5 – 5 months |
| 9. Key characters for identification | : | Bushy growth habit with light purple tinge on the leaf stalk- Violet flowers, Plants non- prickly, Fruits white, medium to long (12.67 cm), borne solitary or occasionally in clusters, average weight 43 g |
| 10. Productivity | : | 30 t/ha |
| 11. Area of adaptation | : | Throughout Kerala and Zone No.1, IV and VIII, of the country |
| 12. Tips on cultivation | : | Season – May - August, September-December and January-March; Spacing: 60 x 45 cm; Seed rate : 500g/ha.
Apply NPK - 75:25:25 kg/ha |
| 13. Scientists responsible for developing the variety | : | Gopalakrishnan T.R.,
Peter K.V., Abdul Wahab M., Sally K. Mathew |

1. Crop : Brinjal
 2. Variety : Haritha (SM 141)
 3. Method of breeding : Single plant selection
 4. Source / parent / pedigree : Local collection from Edappally, Kochi
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
2002 - 9th Central Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture,
Vellanikkara
 7. Registration / notification details : IC No.415086
 8. Specific advantages / features : Resistant to bacterial wilt caused by *Ralstonia solanacearum* E.F. Smith. Long duration (8 months – 2 years). Suitable for ratooning.
 9. Key characters for identification : Spreading habit, non prickly stem, green leaves, fruits with less seeds. Fruit length 18 cm, average fruit weight 123 g.
 10. Productivity : 62 t/ha
 11. Area of adaptation : Central zone of Kerala
 12. Tips on cultivation : Planting Season – May –June; Seed rate : 400 g/ha;
Spacing : 100 x 75 cm; Apply NPK 75:40:25 kg/ha
 13. Scientists responsible for developing the variety : Gopalakrishnan T.R.,
Sally K. Mathew, Nirmala Devi S., Ramachandran Nair S.
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1. Crop : Brinjal
2. Variety : Neelima (F₁ Hybrid)
3. Method of breeding : Heterosis breeding
4. Source / parent / pedigree : Surya x SM 116
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture,
Vellanikkara
7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : High yield and resistant to bacterial wilt caused by *Ralstonia solanacearum* E.F. Smith. Duration 6 months
9. Key characters for identification : Spreading, non prickly stem, green leaves with violet veins, purple flowers. Large, oval to round, glossy violet fruits. Fruit length 12 cm, fruit diameter 6.7 cm, fruit weight 176 g.
10. Productivity : 65 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season – May –June and September-October; Seed rate : 450 g/ha; Spacing : 100 x 60 cm
Apply NPK 75:40:25 kg/ha
13. Scientists responsible for developing the variety : Gopalakrishnan T.R.,
Singh P.K., Narayanan Kutty C., Devadas V.S.,
Ramachandran Nair S.

1. Crop : Chilli (*Capsicum annuum* L.)
 2. Variety : Jwalamukhi (Culture 57)
 3. Source / parent / pedigree : Recombination breeding
 4. Method of breeding : Vellanotchi x Pusa Jwala
 5. Year of release and authority : 1990 - Kerala State Seed Subcommittee meeting
 6. Evolved at : Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
 7. Registration / notification details :
 8. Specific advantages / features : High yield, protracted fruiting, low pungency, consumer acceptance, tolerant to partial shade. Duration 137 days.
 9. Key characters for identification : Annual, moderate branching plants with green leaves. Pendulous, green, medium long fruits with wrinkled thick skin. Average fruit length - 9.6 cm
 10. Productivity : 22.5 t/ha of green chilli
 11. Area of adaptation : South zone of Kerala
 12. Tips on cultivation : Season – Kharif, Rabi and Summer; Seed rate : 2.0 kg / ha; Spacing : 60 x 45 cm; Apply FYM - 20 – 25 t/ha NPK– 75:40:25 kg/ha
 13. Scientists responsible for developing the variety : Manikantan Nair P. Gopinathan Nair V.
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1. Crop : Chilli
2. Variety : Jwalasakhi (Culture 45)
3. Method of breeding : Recombination breeding
4. Source / parent / pedigree : Vellanotchi x Pusa Jwala
5. Year of release and authority : 1990 - Kerala State Seed Subcommittee meeting
6. Evolved at : Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yield, protracted fruiting, low pungency, ideal for green chilli purpose. Duration - 4-5 months
9. Key characters for identification : Annual, small statured plants, moderate branching. Fruits pendulous, tapering from stalk end, smooth, sulphur colored, medium long and thick skinned. Average fruit length - 7.6 cm
10. Productivity : 19.6 t/ha of green chilli
11. Area of adaptation : Southern Districts of Kerala
12. Tips on cultivation : Season – Kharif, Rabi and Summer; Seed rate : 1.0 kg per ha; Spacing : 45 x 45 cm. Apply FYM 20 – 25 t/ha NPK – 75:40:25kg/ha
13. Scientists responsible for developing the variety : Manikantan Nair P. Gopinathan Nair V.

1. Crop : Chilli
 2. Variety : Ujwala (CA 219)
 3. Method of breeding : Single plant selection
 4. Source / parent / pedigree : CA 219-1-19-6
 5. Year of release and authority : 1996 - 18th Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
 7. Registration / notification details : IC No. 415087
 8. Specific advantages / features : Resistant to bacterial wilt, ideal for close planting, highly pungent fruits, tolerant to leaf curl virus and mosaic under field conditions, duration 4 - 5 months
 9. Key characters for identification : Plants determinate, bushy and low branching, Erect fruits in clusters of 8-10. Fruits are dark green at immature stage turning deep red on ripening.
 10. Productivity : 18 t/ha of green chilli
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Season – May - June and August - September; Spacing : 60 x 45 cm; Apply FYM - 20 – 25 t/ha and NPK– 75:40:25 kg/ha
 13. Scientists responsible for developing the variety : Gopalakrishnan T.R.
Peter K.V., Indira P.
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1. Crop : Chilli
2. Variety : Anugraha
3. Method of breeding : Back cross method
4. Source / parent / pedigree : Ujwala x Pusa Jwala
5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High yield, bacterial wilt resistant, more suitable as green chilli. Medium pungency.
9. Key characters for identification : Short statured, spreading plants. Attractive, light green and long pendant fruits. Fruit length 12 cm
10. Productivity : 27 t/ha of green chilli
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season – May-June and September-October; Seed rate : 1kg/ha; Spacing 45 x 45 cm; Apply FYM 20 – 25 t/ha NPK– 75:40:25 kg/ha
13. Scientists responsible for developing the variety : Baby Lissy Markose,
Abdul Vahab M, Peter K.V., Sadhankumar P.G.,
Rajan S., Gopalakrishnan T. R.

1. Crop : Chilli
2. Variety : Vellayani Athulya
3. Method of breeding : Pure line selection
4. Source/parent/ pedigree : Local collection from Aryanadu, Thiruvananthapuram
5. Year of release and authority : 2006- 23rd Kerala State Seed Subcommittee meeting.
6. Evolved at : Dept of Olericulture, College of Agriculture, Vellayani
7. Registration /Notifications : IC 584160
8. Specific advantages/features : High yield. Early with long and medium pungent fruits for use as green chilli, tolerant to partial shade
9. Key characters for identification : Medium statured plants with attractive long pendant light green fruits at immature stage, which turns deep red on ripening
10. Productivity : 32t/ha
11. Area of adaptation : Southern districts of Kerala
12. Tips on cultivation : Seed rate 1kg/ha. Transplant seedling at 45 x 45 cm
13. Scientists responsible for developing the variety : Sreelathakumary I.
Rajamony L, Abdul Vahab M., Celine V. A.

1. Crop : Chilli (*Capsicum frutescens* L.)
2. Variety : Samrudhi
3. Method of breeding : Selection
4. Source / parent / pedigree : Muttakkad (Thiruvananthapuram Local)
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Olericulture, College of Agriculture, Vellayani
7. Registration / notification details : IC 584161
8. Specific advantages / features : High yielding and shade tolerant
9. Key characters for identification : Tall plants with good spread, take 80days to flower. Fruits erect creamy white and orange red on ripening with average length 4.83 cm, weight 1.98 gm, capsaicin content 0.84%.
10. Productivity : 30 - 32 t green chilli/ha
11. Area of adaptation : Southern Kerala
12. Tips on cultivation : Seed rate 1kg/ha, provide wider spacing. Long pre baring period. Provide isolation of 400 m for seed production.
13. Scientists responsible for developing the variety : Sreelathakumari. I
Abdul Vahab, Celine.V.A, Rajamony.L

1. Crop : Tomato (*Solanum lycopersicum* L.)
 2. Variety : Sakthi (LE 79)
 3. Method of breeding : Single seed descent method of selection
 4. Source / parent / pedigree : A North Carolina Line (32d-0-1-19 GS)
 5. Year of release and authority : 1990 - 14th State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : Resistant to bacterial wilt caused by *Ralstonia solanacearum* - E.F. Smith, duration 115 – 120 days.
 9. Key characters for identification : Semi determinate growth habit. Fruits flat round, medium sized and green shouldered with jointed pedicel. Average fruit weight 48.3 g
 10. Productivity : 32 t/ha
 11. Area of adaptation : Throughout the country where bacterial wilt is a problem
 12. Tips on cultivation : Season: September–December and January–February; Seed rate : 400 g per ha; Spacing : 60 x 60 cm
Apply NPK 150:60:60 kg/ha
 13. Scientists responsible for developing the variety : Rajan. S. ,
Celine V. A., Peter K.V.
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1. Crop : Tomato
2. Variety : Mukthi (LE 79-5)
3. Method of breeding : Pure line Selection
4. Source / parent / pedigree : LE 79
5. Year of release and authority : 1997 - Central Sub Committee meeting
1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Dep. of Olericulture, College of Horti., Vellanikkara
7. Registration / notification details : Notified as per Gazette notification No. 17-102/ 97 SD – IV, GOI, MOA, DAC, New Delhi dt. 21/09/1998
8. Specific advantages / features : High yield, resistant to bacterial wilt caused by *Ralstonia solanacearum* - E.F. Smith. Tolerant to heat. Crop duration-95-100 days.
9. Key characters for identification : Determinate growth habit, fruits white, round, medium sized, without green shoulder, jointed pedicel. Average fruit weight – 53 g
10. Productivity : 43.5 t/ha
11. Area of adaptation : Throughout the country where bacterial wilt is a problem (States of Kerala, Karnataka, Maharashtra, Orissa and Himachal Pradesh)
12. Tips on cultivation : Season : Sept-Dec and Jan-Feb; Seed rate: 400 g / ha; Spacing: 60 x 60 cm Apply NPK 150:60:60 kg/ha
13. Scientists responsible for developing the variety : Rajan S.
Prasanna K.P, Sadhankumar P.G.

1. Crop : Tomato
 2. Variety : Anagha (LE 415)
 3. Method of breeding : Pure line selection
 4. Source / parent / pedigree : Exotic collection (segregating)
 5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
Recommended for national released by 22nd Group Meeting of AICVIP held during at APAU, Hyderabad for Zones I, V and VIII of the Country.
 6. Evolved at : Dep. of Olericulture, College of Horti., Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yield. Bacterial wilt and crack resistant, tolerant to leaf curl and mosaic.
 9. Key characters for identification : Semi determinate in growth. Round, red and medium sized fruits free from green shoulder. Average fruit weight 45 g
 10. Productivity : 30 t/ha
 11. Area of adaptation : Thrissur, Palakkad and Ernakulam Districts of Kerala
 12. Tips on cultivation : Season : Sept - Dec and Jan - Feb - Seed rate : 400 g/ha;
Spacing : 60x60 cm; Apply NPK 150:60:60 kg/ha
 13. Scientists responsible for developing the variety : Sadhankumar P.G.,
Rajan S., Sally K. Mathew, Nirmala Devi S., George.T.E.,
Gopalakrishnan T.R.
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1. Crop : Tomato
2. Variety : Vellayani Vijai
3. Method of breeding : Introduction and Selection
4. Source/parent/ pedigree : CLN 1621 F from AVRDC,Taiwan
5. Year of release and authority : 2006- 23rd Kerala State Seed Subcommittee meeting.
6. Evolved at : Dept of Olericulture, College of Agriculture, Vellayani
7. Registration /Notifications : IC 584163
8. Specific advantages/features : High yielding, tolerant to bacterial wilt, high temperature and partial shade
9. Key characters for identification : Determinate, short statured and compact plants with light green fruits at immature stage, which turns attractive red on ripening
10. Productivity : 37.26t/ha
11. Area of adaptation : Southern districts of Kerala
12. Tips on cultivation : Sow seed during September and transplant during October-November at 16-60 cm.
13. Scientists responsible for developing the variety : Celine V. A.
Rajamony L, Abdul Vahab M., Gokulapalan C,
Sreelathakumary I., Chandramony D.

1. Crop : Okra (*Abelmoschus esculentus* L.)
 2. Variety : Kiran (AE 1)
 3. Method of breeding : Single plant selection
 4. Source / parent / pedigree : Kilichundan local
 5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
 7. Registration / notification details :
 8. Specific advantages / features : High yield, light green and long fruits, duration 3-4
months, Tolerant to YVMV
 9. Key characters for identification : Shy branching, plant with light green and long fruits.
Duration 100 days.
 10. Productivity : 11.2 t/ha
 11. Area of adaptation : South zone of Kerala.
 12. Tips on cultivation : Sowing : May - June and September - January
Seed rate : 7 kg/ha, Spacing : 60 x 45 cm;
Apply NPK - 50:8:25 kg/ha
 13. Scientists responsible for
developing the variety : Ramachandran Nair N.,
Manikantan Nair P., Gopinathan Nair V.
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1. Crop : Okra
2. Variety : Anjitha
3. Method of breeding : Interspecific hybridization followed by mutation
breeding (gamma irradiation of F₁ seeds) and selection
4. Source/parent/ pedigree : *Abelmoschus esculentus* (Kiran) x *Abelmoschus*
manihot (wild)
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub committee meeting.
6. Evolved at : Dept of Plant Breeding & Genetics,
College of Agriculture, Vellayani
7. Registration /notifications : IC 584167
8. Specific advantages/features : High yield, early maturity, yellow vein mosaic
resistant with tolerance to shoot and fruit borer
9. Key characters for identification : Long, smooth, green fruits with prominent ridges
10. Productivity : 14.6t/ha
11. Area of adaptation : Suitable summer season in Thiruvananthapuram
district
12. Tips on cultivation : Seed rate 8.5 kg/ha for summer crop and 7.0 kg/ha
for Khariff crop.
13. Scientists responsible
for developing the variety : Manju P.
Gopimony R., Chandramony D., Rajagopalan B.

1. Crop : Okra
 2. Variety : Manjima (F1 Hybrid)
 3. Method of breeding : Heterosis Breeding
 4. Source/parent/ pedigree : Gowreesapattom local (P1) x NBPGR / TCR-874 (P4)
 5. Year of release and authority : 2006- 23rd Kerala State Seed Sub committee meeting.
 6. Evolved at : Dept of Plant Breeding & Genetics, College of Agriculture, Vellayani
 7. Registration /Notifications : IC 584168
 8. Specific advantages/features : High yielding, early maturing, yellow vein mosaic resistant with tolerance to shoot and fruit borer
 9. Key characters for identification : Long light green fruits
 10. Productivity : 16t/ha
 11. Area of adaptation : Suitable for Kharif of Southern Kerala
 12. Tips on cultivation : Avoid sowing during peak summer period.
 13. Scientists responsible for developing the variety : Manju P.
Chandramony D, Naseema A.
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1. Crop : Okra
2. Variety : Salkeerthi (AE 202)
3. Method of breeding : Reselection
4. Source / parent / pedigree : NBPGR No. 144
5. Year of release and authority : 2000 - 20th State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : IC No - 470862, 2002- 9th Central Sub Committee meeting
8. Specific advantages / features : High yield, attractive light green and long fruits.
9. Key characters for identification : Light green and long fruits. Purple tinge at the base and terminal portions of the petiole. Fruit length 24-30 cm., number of ridges 5. Duration 120 days.
10. Productivity : 16.2 t / ha
11. Area of adaptation : Central zone of Kerala.
12. Tips on cultivation : Sowing : May - June, September - October;
Seed rate : 7 kg/ha; Spacing : 60 x 45 cm
Apply NPK - 50:8:25 kg/ha
13. Scientists responsible for developing the variety : Suresh Babu K.V. ,
Rajan S., Baby Lissy Markose, Prasanna K.P.

1. Crop : Okra
 2. Variety : Aruna (AE 198)
 3. Method of breeding : Pure line selection
 4. Source / parent / pedigree : NBPGR No. 777
 5. Year of release and authority : 2000 - 20th State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
 7. Registration / notification details : IC No - 479863, 2002 - 9th Central Sub Committee meeting
 8. Specific advantages / features : High yield, attractive red colored long fruits rich in anthocyanin
 9. Key characters for identification : Petiole, stem and fruits are purple coloured, long fruits (25-30 cm), seven ridges on fruit. Duration 120 days.
 10. Productivity : 15.8 t/ha
 11. Area of adaptation : Central zone of Kerala.
 12. Tips on cultivation : Sowing : May - June; and September-October
Seed rate : 7 kg / ha; Spacing : 60 x 45 cm;
Apply NPK - 50:8:25 kg/ha
 13. Scientists responsible for developing the variety : Suresh Babu K.V.,
Rajan S., Baby Lissy Markose, Prasanna K.P.
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1. Crop : Bhindi (*Abelmoschus manihot var.ghana*)
2. Variety : Susthira
3. Method of breeding : Pure line selection
4. Source / parent / pedigree : AM-4, a collection from Mannarkkad, Palakkad
5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : IC No 470864
8. Specific advantages / features : Resistant to YVMV. Late and long duration variety suitable for homesteads during *kharif* season. Duration 120-145 days.
9. Key characters for identification : Large lobbed leaves, stout stem, yellow, showy flowers and attractive, light green fruits. Fruit length - 22 cm. Days to first harvest 52 - 53 days.
10. Productivity : 18 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season : May - June; Seed rate : 7 kg/ha;
Spacing : 60 x 45 cm; Apply NPK - 50:8:25 kg/ha
13. Scientists responsible for developing the variety : Suresh Babu K.V.,
Gopalakrishnan T.R., Rajan S., Sally K. Mathew

1. Crop : Vegetable Cowpea (Yard long bean) *Vigna unguiculata* var. *sesquipedalis*
2. Variety : Malika (Selection 7)
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Thiruvananthapuram local
5. Year of release and authority : 1992 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yield. Duration 3-4 months
9. Key characters for identification : Trailing growth habit, purple flowers, long light green pods without purple tip. Average pod length 43.5 cm, no. of seeds/ pod 17.1 and 100 seed weight 16.1g. Seeds brown colored with a white speck having irregular shape at one end.
10. Productivity : 9.8 t/ha
11. Area of adaptation : Southern districts of Kerala
12. Tips on cultivation : Season: Kharif, Rabi and Summer
Seed rate : 5 kg / ha; Pit to pit spacing (@ 3 plants per pit): 2 x 2 m; Apply NPK - 20:30:10 kg/ha
13. Scientists responsible for developing the variety : Manju P., Sunny K. Oommen, Gopinathan Nair V., Mohanakumaran N.

1. Crop : Vegetable Cowpea (Yard long bean)
2. Variety : Sharika (S 108)
3. Method of breeding : Single Plant Selection
4. Source / parent / pedigree :
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yield, duration 3-4 months
9. Key characters for identification : Trailing growth habit, long white pods with purple tip, black seeds, purple flowers; Pod length 49 cm, No. of seeds/pod 19-20; 100 seed weight 15.9 g.
10. Productivity : 10.6 t/ha
11. Area of adaptation : Southern districts of Kerala
12. Tips on cultivation : Season: Kharif, Rabi and Summer; Seed rate : 5 kg / ha; Pit to pit spacing (@ 3 plants per pit) : 2 x 2 m; Apply NPK - 20:30:10 kg/ha
13. Scientists responsible for developing the variety : Ramachandran Nair N., Sunny K. Oommen, Gopinathan Nair V., Mohanakumaran N.

1. Crop : Cowpea (*Vigna unguiculate subsp.*)
 2. Variety : Vellayani Jyothika
 3. Method of breeding : Selection
 4. Source/parent/ pedigree : Sreekaryam Local
 5. Year of release and authority : 2006- 23rd Kerala State Seed Sub committee meeting.
 6. Evolved at : Dept of Olericulture, College of Agriculture, Vellayani
 7. Registration /Notifications : IC 584162
 8. Specific advantages/features : High yield, long pods, medium duration, tolerant to fusarium wilt
 9. Key characters for identification : Trailing growth habit, Vigorous growing plants with attractive long light green pods
 10. Productivity : 19.33 t/ha
 11. Area of adaptation : Southern districts of Kerala
 12. Tips on cultivation : Seed rate for 5 kg/ha. Take precaution against Anthracnose disease during rainy season.
 13. Scientists responsible for developing the variety : Celine V. A.
Gokulapalan C, Shahul Hameed S. M.
Reghunath P, Ramachandran Nair S., Rajamony L.
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1. Crop : Vegetable Cowpea (Yard long bean)
2. Variety : KMV – 1 (VS 4)
3. Method of breeding : Pure line selection
4. Source / parent / pedigree : Manjeri Red Plain
5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Kumarakom
7. Registration / notification details :
8. Specific advantages / features : High yield, tolerant to cowpea mosaic, cowpea rust and foot rot disease.
9. Key characters for identification : Trailing growth habit, pale green stem and petiole, long light green pods with brown tip, immature seeds light green, and dry seeds reddish brown. Average length of pod - 37.93 cm. No. of seeds/pod 19/
Duration: Kharif - 90 - 120days; summer - 75 - 110 days
10. Productivity : 13.5 t / ha
11. Area of adaptation : Intercrop in coconut gardens of Kuttanad
12. Tips on cultivation : Season: September-December and February-March;
Spacing : 1x1 m; Apply - NPK-20:30:10 kg/ha
13. Scientists responsible for developing the variety : Sreekumar K.
Inasi K.A., Alice Antony, Kavitha K., Maya Devi
Sosamma Cheriyan, Nair R.R.

1. Crop	:	Vegetable Cowpea (Yard long bean)
2. Variety	:	Vyjayanthi (VS 21-1)
3. Method of breeding	:	Pure line selection
4. Source / parent / pedigree	:	Perumpadavam local
5. Year of release and authority	:	1998 - 19 th Kerala State Seed Sub Committee meeting
6. Evolved at	:	Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details	:	IC No. 415088, 2002 - 9 th Central Sub Committee meeting
8. Specific advantages / features	:	High yield, wine red colored extra long pods and specific consumer acceptance. Crop duration 3.5 – 4 months.
9. Key characters for identification	:	Trailing growth habit, vine green with violet tinge at the nodes, wine red colored extra long pods (50.62 cm), brown seeds and purple flowers. No. of seeds/pod 20-22, 100 seed weight 22.8g
10. Productivity	:	12.6 t/ha
11. Area of adaptation	:	Central zone of Kerala
12. Tips on cultivation	:	Season : June-September and December-March Seed rate : 3 kg / ha; Pit to pit spacing (@ 3 plants per pit) : 2 x 2 m; Apply NPK - 20:30:10 kg/ha
13. Scientists responsible for developing the variety	:	Gopalakrishnan T.R. Ramachandran Nair S., Devadas V.S.

1. Crop	:	Vegetable Cowpea (Yard long bean)
2. Variety	:	Lola (VS 13-2)
3. Method of breeding	:	Pure line selection
4. Source / parent / pedigree	:	Kanakari local
5. Year of release and authority	:	2000 - 20 th Kerala State Seed Sub Committee meeting
6. Evolved at	:	Department of Olericulture, College of Horticulture, Veilanikkara
7. Registration / notification details	:	IC No.415089, 2002 9 th Central Sub Committee meeting
8. Specific advantages / features	:	High yield, smooth and glossy light green coloured, extra long pods (53.38 cm). Duration – 4 months
9. Key characters for identification	:	Trailing growth habit, long light green pods with purple tip, purple flowers and black seeds. No. of seeds/pod 20-22, 100 seed weight 26.2 g.
10. Productivity	:	20 t/ha
11. Area of adaptation	:	Central zone of Kerala
12. Tips on cultivation	:	Season – June-September and December-March; Seed rate : 4 kg / ha; Pit to pit spacing (@ 3 plants per pit) 2 x 2 m; Apply NPK - 20:30:10 kg/ha (Responds to high dose of fertilizers)
13. Scientists responsible for developing the variety	:	Gopalakrishnan T.R. Devadas V.S, Maicykutty P. Mathew, Aravindakshan K., Ramachandran Nair S.

1. Crop : Vegetable Cowpea - Bush
 2. Variety : Bhagyalakshmi (VS 389)
 3. Method of breeding : Selection
 4. Source / parent / pedigree : A line introduced from IITA, Ibadan
 5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
 7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
 8. Specific advantages / features : Early flowering and bushy variety. Days to first harvest- 48. Duration – 2.5 months. Suitable as fringe crop in paddy fields.
 9. Key characters for identification : Bushy growth habit, light green, medium sized pods, mottled seeds, white flowers in clusters. Average pod length - 27 cm
 10. Productivity : 6.48 t/ha
 11. Area of adaptation : Central zone of Kerala
 12. Tips on cultivation : Season: Kharif, Rabi and Summer; Seed rate : 20-25 kg /ha; Spacing : 30 x 20 cm; Apply NPK - 20:30:10 kg/ha
 13. Scientists responsible for developing the variety : Salikkutty Joseph, Peter K.V., Rajan S.
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1. Crop : Vegetable Cowpea - Semi - trailing
2. Variety : Kairali (CWP 11-1)
3. Method of breeding : Pure line selection
4. Source / parent / pedigree : NBPGR line IC- 45415
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : Resistant to mosaic disease. Duration - 3 - 3.5 months
9. Key characters for identification : Semi trailing growth habit, green stem with pink streaks, leaves green with pink streaks at the base of the petiole, pink coloured medium long pods, reddish brown seeds, purple flowers. Average pod length- 22.78 cm. Days to first harvest 50 days.
10. Productivity : 7.13 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season : Ideal time of sowing : Sept.- Oct; Seed rate : 5-20 kg/ha; Spacing : 45 x 20 cm; Apply NPK - 20:30:10 kg/ha
13. Scientists responsible for developing the variety : Devadas V. S. Gopalakrishnan T. R., Sally K. Mathew, M. Sheela Paul

1. Crop : Vegetable Cowpea (Semi-trailing)
 2. Variety : Anaswara (VS.15-3-1)
 3. Source / parent / pedigree : Pure line selection
 4. Method of breeding : Local collection from 'Elenji'
 5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture,
 7. Registration / notification details : IC No.415090
 8. Specific advantages / features : High yielding variety requiring 38 days for first harvest. Less incidence of cowpea mosaic under field conditions.
 9. Key characters for identification : Semi-trailing type. Leaves dark green with green veins. Light green medium long pods (28-32 cm) with cream coloured bold seeds, 100 seed weight 16 g. Duration – 110-120 days.
 10. Productivity : 12.5 t/ha
 11. Area of adaptation : Central Zone of Kerala
 12. Tips on cultivation : Season – Rabi & Summer. Suited for growing in basins without pandals or trellis; Sow 5-6 seeds in basins of 50-60 cm diameter at 1.5-2m x 1.5m spacing; Seed rate 12 kg/ha; Apply NPK - 20:30:10 kg/ha
 13. Scientists responsible for developing the variety : Gopalakrishnan T. R.
Devadas V. S., Sadhan kumar P.G. , George T.E.
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1. Crop : Vegetable cowpea (Semi-trailing)
2. Variety : Varun (VS-96)
3. Method of breeding : Pure line selection
4. Source / parent / pedigree : Local collection from Manjapra
5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : Semi -trailing type tolerant to mosaic and pod borer. Duration 110 – 120 days (38 days for first harvest)
9. Key characters for identification : Pink coloured long pods of 27-30 cm, purple brown plumpy seeds, 100 seed weight 16 g
10. Productivity : 8.4 t/ha
11. Area of adaptation : Central Zone of Kerala
12. Tips on cultivation : Season : Suited for growing in furrows during summer season and on raised beds during rainy season; Seed rate : 5-10 kg/ha; Apply NPK - 20:30:10 kg/ha
13. Scientists responsible for developing the variety : Devadas V. S.
Gopalakrishnan T. R., George T.E.

1. Crop : Winged bean (*Psophocarpus tetragonolobus*)
 2. Variety : Revathy (PT 52)
 3. Method of breeding : Mass selection
 4. Source / parent / pedigree : Sri Lankan introduction
 5. Year of release and authority : 1996 - 18th Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yielding, pole type, photosensitive, short day plant. Duration - 4 months
 9. Key characters for identification : Green stemmed plants with violet flowers, medium sized green pods and dark brown seeds. Average fruit length 16 cm, fruit weight 13.5 g.
 10. Productivity : 10-12 t/ha
 11. Area of adaptation : Central zone of Kerala
 12. Tips on cultivation : Season : July - August, Spacing : 3x3 m;
Seed rate : 20 kg/ha
Apply NPK - 50:100:50 kg/ha
 13. Scientists responsible for developing the variety : Prasanna K.P.,
Suresh Babu K.V., Indira P., Verghese C.A., Rajan S.
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1. Crop : Hyacinth Bean (*Lablab purpureus* (L) sweet)
2. Variety : Hima
3. Method of breeding : Pure line selection
4. Source/parent/ pedigree : Local collection from Viyyoor, Thrissur
5. Year of release and authority : 2006- 23rd Kerala State Seed Subcommittee meeting.
6. Evolved at : Dept of Olericulture, College of Horticulture, Vellanikkara
7. Registration /Notifications :
8. Specific advantages/features : High yield, long duration, photosensitive variety with large, succulent, nutritious pods
9. Key characters for identification : Pole type with white flowers, light green broad straight pods and coffee brown seeds
10. Productivity : 14.82 t/ha (Average)
11. Area of adaptation : Central Zones of Kerala.
12. Tips on cultivation : Sow seeds during July at 3 x 3 cm and train the plants to Panthals
13. Scientists responsible for developing the variety : Gopalakrishnan T. R.
Baby Lissy Markose, Prasanna K. P., Rajan S.

1. Crop : Hyacinth Bean
2. Variety : Grace
3. Method of breeding : Pure line selection
4. Source/parent/ pedigree : Local collection from Viyyoor, Thrissur
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Olericulture, College of Horticulture, Vellanikkara
7. Registration /Notifications :
8. Specific advantages/features : High yield, early maturing, photosensitive
9. Key characters for identification : Pole type with purple stem, purple leaf veins and lilac flowers, medium broad, greenish purple, slightly curved pods and black seeds
10. Productivity : 15 t/ha (Average)
11. Area of adaptation : Central Zones of Kerala.
12. Tips on cultivation : Sow seeds during July at 3 x 3 cm and train the plants to Panthals
13. Scientists responsible for developing the variety : Baby Lissy Markose
Prasanna K. P, Gopalakrishnan T. R., Rajan S,
Biju M. G

1. Crop : *Amaranthus (Amaranthus tricolor)*
2. Variety : Arun (S - 8)
3. Method of breeding : Mass Selection
4. Source / parent / pedigree : Palappoor local
5. Year of release and authority : 1992 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yielding, purple coloured leaves and stem, photoinsensitive, duration 54-140 days, suitable for multi cut and once over harvest
9. Key characters for identification : Purple coloured stem, petiole and leaves, leaves in shape, leaf length 25 cm and width 11 cm.
10. Productivity : 20 t/ha
11. Area of adaptation : Southern districts of Kerala
12. Tips on cultivation : Season – Summer Kharif and Rabi ; Seed rate : 1.5-2 kg per ha; Spacing : 30 x 20 cm ; Apply NPK 100:50:50 kg/ha
13. Scientists responsible for developing the variety : Ramachandran Nair N.
Manikandan Nair P., Gopinathan Nair V.,
Mohanakumaran N.

1. Crop : Amaranthus
 2. Variety : **Mohini (Amt 105)**
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Accession
 5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yield with good cooking quality. Slight leaf spot incidence in rainy seasons. Duration – 120 days
 9. Key characters for identification : Medium branching, erect growth habit with 80-90 cm height at flowering stage. Thick green stem with red colour at basal parts. Dark green elliptical leaves with acute leaf tip
 10. Productivity : 13.2 t/ha
 11. Area of adaptation : Central zone of Kerala
 12. Tips on cultivation : Ideal for cultivation in summer months. Plant in wider channels of 3-4 rows at a spacing of 30x20 cm. Seed rate-1.5- 2 kg/ha; Apply NPK – 100:50:50 kg/ha
 13. Scientists responsible for developing the variety : Devadas V. S.
Gopalakrishnan T. R., Augustine A., Krishnakumari
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1. Crop : Amaranthus
2. Variety : **Krishnasree**
3. Method of breeding : Selection
4. Source/parent/ pedigree : Collection from Kozhikode
5. Year of release and authority : 2006 - 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Olericulture, College of Horticulture, Vellanikkara
7. Registration /Notifications : IC 561286
8. Specific advantages/features : High yielding, multicut type giving 6-8 harvests, rich in carotene and vitamin C and low in oxalates and nitrates
9. Key characters for identification : Highly branching, red fleshy stem and coppery red (reddish green) leaves, terminal and axillary red clustered inflorescence
10. Productivity : 14.8 t /ha
11. Area of adaptation : Central Zone of Kerala
12. Tips on cultivation : Avoid sowing during rainy seasons.
13. Scientists responsible for developing the variety : Krishna Kumari K.
Rajan S, Gopalakrishnan T. R., Devadas V. S., Prasanna K. P.

1. Crop : Amaranth
2. Variety : Renusree,
3. Method of breeding : Selection
4. Source/parent/ pedigree : Collection from Ernakulam
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Olericulture, College of Horti, Vellanikkara
7. Registration /Notifications : IC 651285
8. Specific advantages/features : High yielding , multicut type giving 6-8 harvests, rich in carotene and vitamin C and low in oxalates and nitrates
9. Key characters for identification : Highly branching, red fleshy stem and green leaves, terminal and-axillary-green clustered inflorescence
10. Productivity : 15.5 t of greens/ha
11. Area of adaptation : Central Zone of Kerala
12. Tips on cultivation : Avoid sowing during rainy seasons.
13. Scientists responsible for developing the variety : Krishna Kumari K.
Rajan. S, Gopalakrishnan T. R
Mini. C, Meagle Joseph

1. Crop : Bitter gourd (*Momordica charantia* L.)
2. Variety : Priya (MC 23)
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Kannur local
5. Year of release and authority : 1976 - Kerala State Seed Sub committee meeting
Recommended for national release by Group meeting on Vegetable Research held at APAU, Hyderabad from 6-9, January, 1992.
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High yield, extra long green spiny fruits with white tinges at stylar end
9. Key characters for identification : Long green spiny fruits with white tinge at stylar end, fruit length 39 cm, average fruit weight 235g, duration 90-115 days
10. Productivity : 20-30 t/ha
11. Area of adaptation : Throughout Kerala and Zone VII and Zone VIII of the country
12. Tips on cultivation : Season: January-march & September-December;
Pit to pit spacing : 2 x 2 m(3 pl./pit); Apply NPK - 70:25:25 kg/ha
13. Scientists responsible for developing the variety : Ramachandran C.,
Gopalakrishnan P.K., Peter K.V., Salikkutty Joseph,
Rajan S., Abdul Wahab M.

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| 1. Crop | : | Bitter gourd |
| 2. Variety | : | Preethi (MC 84) |
| 3. Method of breeding | : | Selection |
| 4. Source / parent / pedigree | : | Local collection |
| 5. Year of release and authority | : | 1996 - Kerala State Seed Sub Committee meeting
1997 - Central Sub Committee meeting |
| 6. Evolved at | : | Department of Olericulture, College of Horticulture,
Vellanikkara |
| 7. Registration / notification details | : | Notified as per Gazette notification No. 17-102/ 97 SD
– IV, GOI, MDA, DAC, New Delhi dt. 21/09/1998 |
| 8. Specific advantages / features | : | High yield and quality, duration 4 to 5 months, less
incidence of fruit fly, good transport quality |
| 9. Key characters for identification | : | White, spiny, medium long fruits, average fruit length
30cm, average fruit weight 310g, pre-bearing period 55
days. |
| 10. Productivity | : | 25 t/ha |
| 11. Area of adaptation | : | Throughout Kerala and VII & VIII Agroclimatic zones
of the country |
| 12. Tips on cultivation | : | Season: January - March & September - December;
Spacing : 2x2 m; Density : 2500 pits/ha @ 3 plants/ pit;
Apply NPK - 70:25:25 kg/ha |
| 13. Scientists responsible for
developing the variety | : | Abdul Wahab M.,
Gopalakrishnan P.K., Rajan S. |
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| 1. Crop | : | Bitter gourd |
| 2. Variety | : | Priyanka ((Selection 1010) |
| 3. Method of breeding | : | Selection |
| 4. Source / parent / pedigree | : | Kuravilangad Local |
| 5. Year of release and authority | : | 1996 - 18 th Kerala State Seed Sub Committee meeting |
| 6. Evolved at | : | Sugarcane Research Station, Thiruvalla |
| 7. Registration / notification details | : | |
| 8. Specific advantages / features | : | High yield and quality, thick flesh and less seeded
fruits, duration 4 to 5 months, tolerant to downy mildew
under field conditions. |
| 9. Key characters for identification | : | Uniform, white, large spindle shaped fruits with smooth
spines, thick flesh and less seeds. Average fruit
weight 300 g, average fruit length 25 cm. |
| 10. Productivity | : | 28 t/ha |
| 11. Area of adaptation | : | Acidic alluvial soils of Southern Kerala |
| 12. Tips on cultivation | : | Season: January-March & September-December;
Spacing : 3 x 3 m; Density : 1100 plants/ha;
Apply NPK - 70:25:25 kg/ha |
| 13. Scientists responsible for
developing the variety | : | Jessy M. Kuriakose,
Alexander D., Sreekumar K., Thomas Mathew,
Santhakumari S. |

1. Crop : Snakegourd (*Trichosanthes anguina*)
 2. Variety : Kaumudi (Accession 2009)
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Local collection
 5. Year of release and authority : 1996 - 18th Kerala State Seed Sub Committee meeting
 6. Evolved at : Sugarcane Research Station, Thiruvalla
 7. Registration / notification details :
 8. Specific advantages / features : High yield; white, long and stout fruits.
 9. Key characters for identification : Duration 5 months, pre- bearing period 75 days, uniform white, long (97 cm) fruits with white acute tip, fruit weight 1.34 kg and girth 29.36 cm.
 10. Productivity : 50 t/ha
 11. Area of adaptation : Acidic alluvial soils of Southern Kerala
 12. Tips on cultivation : Season: January - March & September - December;
Seed rate - 3-4 kg/ha; Spacing : 3x3 m
Apply NPK - 70:25:25 kg/ha
 13. Scientists responsible for developing the variety : Jessy M Kuriakose,
Chandy K.C., Sureshkumar P., Leena Kumari S.
Ittyaverah P. J., Santhakumari S.
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1. Crop : Snake gourd
2. Variety : **Baby (TA 23)**
3. Method of breeding : Selection
4. Source / parent / pedigree : Local collection from Peruva, Ernakulam
5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : IC No. 415092
8. Specific advantages / features : High yield and small sized white fruits. Duration – 120-140 days. Tolerant to mosaic disease under field conditions.
9. Key characters for identification : Small elongated uniformly white fruits. Fruit length 36.5 cm, weight 474 g and girth 22cm.
10. Productivity : 50.7 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season: January - March & September - December;
Seed rate : 3-4 kg / ha; Pit to pit; spacing : 2 x 2 m(3 pl./pit)
Apply NPK - 70:25:25 kg/ha
13. Scientists responsible for developing the variety : Gopalakrishnan T.R.
Devadas V.S., Maicykutty P. Mathew,
Aravindakshan K., Ramachandran Nair S.,
Narayanankutty C., Krishnakumari K.

1. Crop : Snake gourd
2. Variety : **Manusree**
3. Method of breeding : Mass selection
4. Source / parent / pedigree : Local collection from Kuruppanthara, Kottayam
5. Year of release and authority : 2004 - 22nd Kerala State Seed Sub Committee meeting
6. Evolved at : Agricultural Research Station, Mannuthy
7. Registration / notification details : IC No. 319982
8. Specific advantages / feature : High yielding, early variety suited for summer rice fallows. Duration- 5months
9. Key characters for identification : Medium long (65-70 cm) white fruits with green markings at the pedicel end. Fruit weight- 750-800 g
10. Productivity : 60 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season : January-March; Spacing : 2x2 m; Seed rate- 3-4 kg/ha Apply NPK - 70:25:25 kg/ha
13. Scientists responsible for developing the variety : Narayanan Kutty C., Rosamma C. A., Jaikumaran U., Kanakamani M.T., Radhakrishnan V.V.

1. Crop : Ash gourd (*Benincasa hispida*)
2. Variety : KAU Local (BH 21)
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Local collection
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : 2002 - 9th meeting of the Central Sub Committee
8. Specific advantages / features : High yield, medium sized oval to oblong fruits with high flesh thickness. Duration : 3.5 - 4 months
9. Key characters for identification : Medium sized oval to oblong fruits which are green at tender stage wax colour on maturity. Fruit length - 45 - 55 cm; fruit weight - 6-8 kg and flesh thickness - 5.1-6.2 cm.
10. Productivity : 28.2 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season: May-June, September-December, January-March ; Seed rate : 0.75-1.0 kg/ha
Pit to pit spacing : 4.5 x 2 m (3 plants/pit)
Apply NPK - 70:25:25 kg/ha
13. Scientists responsible for developing the variety : George T.E. Salikkutty Joseph, Sadhankumar P.G., Rajan S., Meagle Joseph, Peter K.V., Gopalakrishnan P.K.

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| 1. Crop | : | Ash gourd |
| 2. Variety | : | Indu (Cul. AG1) |
| 3. Method of breeding | : | Mass selection |
| 4. Source / parent / pedigree | : | Local collection |
| 5. Year of release and authority | : | 2000 - 20 th Kerala State Seed Sub Committee meeting |
| 6. Evolved at | : | RARS, Pattambi |
| 7. Registration / notification details | : | 2002 - 9 th Central Sub Committee meeting |
| 8. Specific advantages / features | : | High yield, medium sized round fruits, tolerant to mosaic disease. Duration-3.5-4 months |
| 9. Key characters for identification | : | Medium sized, round fruits with flat styler and pedicel end, fruits green at tender stage, wax coloured on maturity. Average fruit length 24.3 cm, weight 4.82 kg and flesh thickness 5.27 cm. |
| 10. Productivity | : | 24.5 t/ha |
| 11. Area of adaptation | : | Central zone of Kerala |
| 12. Tips on cultivation | : | Season : May - August, September - December, January - March; Seed rate : 0.75-1.0 kg/ha; Pit to pit spacing : 4.5 x 2 m (3 plants/pit), Apply NPK - 70:25:25 kg/ha |
| 13. Scientists responsible for developing the variety | : | Jyothi M.L., George T.E., Narayanankutty M.C., Balachandran P.V. Rehumath Niza T.J., Salikkutty Joseph, Santha K.K., Rosamma C.A. |
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| 1. Crop | : | Pumpkin (<i>Cucurbita moschata</i> Poir) |
| 2. Variety | : | Ambili (CM 14) |
| 3. Method of breeding | : | Mass selection |
| 4. Source / parent / pedigree | : | Local collection |
| 5. Year of release and authority | : | 1988 - Kerala State Seed Sub Committee meeting |
| 6. Evolved at | : | Department of Olericulture, College of Horticulture, Vellanikkara |
| 7. Registration / notification details | : | IC No - 415091, 1988 - 11 th Central Sub Committee meeting |
| 8. Specific advantages / features | : | High yield, medium sized, flat round fruits. Duration 3-4 months |
| 9. Key characters for identification | : | White spots at the intersect of veins. Fruits flat round and green colored at tender stage, turning yellowish brown on maturity, yellow coloured flesh, flesh thickness 4.3 cm., L:B ratio 0.71 |
| 10. Productivity | : | 33 t/ha |
| 11. Area of adaptation | : | Kerala, Tamil Nadu, Karnataka and Gangetic alluvial plains |
| 12. Tips on cultivation | : | Season : January-March and September-December
Seed rate : 3- 3.5 kg/ha, Pit to pit spacing (3 pl./pit) : 4.5 x 2 m, Apply NPK - 70:25:25 kg/ha |
| 13. Scientists responsible for developing the variety | : | Gopalakrishnan T.R., Gopalakrishnan P.K., Peter K.V. |

1. Crop : Pumpkin
2. Variety : Suvarna (CM 349)
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Local collection
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : Index No. NGB.2000/91, 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : High yield, medium sized, flat and orange fleshed fruits, duration 3-4 months
9. Key characters for identification : Medium sized, flat, green fruits with white patches and spots at immature stage. Flesh orange colored and thick (5 cm), fruit weight 3.5 kg.
10. Productivity : 37 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season January - March and September - December
Seed rate : 3- 3.5 kg/ha; Pit to pit spacing (3 pl./pit) : 4.5 X 2 m; Apply NPK - 70:25:25 kg/ha
13. Scientists responsible for developing the variety : Baby Lissy Markose, Rajan S.

1. Crop : Pumpkin
2. Variety : Saras (CM-346)
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Local collection
5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High yield and high flesh thickness
9. Key characters for identification : Elongated medium sized fruits (2.7 kg) with orange coloured thick flesh (5 cm). Duration 120 days.
10. Productivity : 39 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season : January - March and September - December
Seed rate- 1- 1.5 kg/ha; Pit to pit spacing (2 pl./pit) : 4.5 x 2 m; Apply NPK-70:25:25 kg/ha
13. Scientists responsible for developing the variety : Baby Lissy Markose, Rajan S., Sadhankumar P.G, Meagle Joseph, Gopalakrishnan T.R.

1. Crop : Pumpkin
2. Variety : Sooraj
3. Method of breeding : Selection
4. Source / parent / pedigree : Local collection from Pollachi (CM 350)
5. Year of release and authority : 2002 - Central Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : Index No. NGB –2000/91 of NBPGR New Delhi
8. Specific advantages / features : High yield, high flesh thickness, and high carotene content
9. Key characters for identification : Globular, medium sized fruits (3kg), green with white stripes at immature stage and tan fruit skin colour at maturity. Orange flesh colour and flesh thickness 4 cm. Crop duration 120 days.
10. Productivity : 47 t/ha
11. Area of adaptation : Zones VII & VIII of the country (Maharashtra, W. Madhya Pradesh, Karnataka, Tamil Nadu, Kerala and Lakshadweep islands)
12. Tips on cultivation : Season : January - March, September - December
Seed rate : 3- 3.5 kg/ha; Pit to pit spacing (3 pl./pit): 4.5 X 2 m; Apply - NPK-70:25:25 kg/ha
13. Scientists responsible for developing : Rajan S.,
Baby Lissy Markose, Sadhan kumar P.G., Peter K.V.

1. Crop : Oriental Pickling Melon (*Cucumis melo var. conomon*)
2. Variety : Soubhagya (CM 8)
3. Source / parent / pedigree : Selection
4. Source / parent / pedigree : Local collection from Valakkavu
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : High yield, small to medium sized oblong fruits having good market demand, early variety suitable for close planting, duration 70-75 days
9. Key characters for identification : Less spreading, bears fruit in the lower nodes, fruits are small to medium sized and oblong shaped, green with light green lines from stalk end to styler end which turn golden yellow colour on ripening. Fruit length 18 - 23 cm, fruit diameter 11-13 cm and fruit weight 900 - 1400 g.
10. Productivity : 17.1 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Season : Rabi and Summer; Seed rate : 750g/ha
Spacing : 100x30 cm; Apply NPK 70:25:25 kg/ha
13. Scientists responsible for developing the variety : Devadas V.S. ,
Gopalakrishnan T.R., Ramachandran Nair S.

1. Crop : Oriental Pickling Melon
 2. Variety : Mudicode (C. S. 26)
 3. Method of breeding : Single plant Selection
 4. Source / parent / pedigree : Local collection from Mudicode, Thrissur
 5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
 6. Evolved at : Dep. of Olericulture, College of Horti., Vellanikkara
 7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
 8. Specific advantages / features : High yield and large fruits, crop duration 80 days, days to first harvest 55-60 days
 9. Key characters for identification : Long oval fruits which are green coloured at immature stage turning attractive golden yellow on ripening. Fruit length - 27-35 cm, fruit weight 1.8 - 2.5 kg
 10. Productivity : 30 t/ha
 11. Area of adaptation : Central zone of Kerala
 12. Tips on cultivation : Season : Rabi and Summer; Seed rate: 500g/ha; Pit to pit spacing : 2 x1.5m @ 3 plants/pit; Apply NPK 70:25:25 kg/ha
 13. Scientists responsible for developing the variety : Salikkutty Joseph, Sadhankumar P. G., George T.E., Rajan S., Meagle Joseph, Peter K.V.
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1. Crop : Oriental Pickling Melon
2. Variety : Arunima (C. S. 1)
3. Method of breeding : Selection
4. Source / parent / pedigree : Local collection
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pilicode
7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : High yield, large fruit size and attractive appearance. Crop duration 55-65 days
9. Key characters for identification : Trailing habit, bright green fruits with creamy spots at tender stage and orange yellow at ripening. Uniform cylindrical shaped fruits having 33 cm length, 40 cm girth and 2.3 kg weight
10. Productivity : 27 t/ha
11. Area of adaptation : North zone of Kerala
12. Tips on cultivation : Season : Rabi and Summer; Seed rate: 500g/ha Pit to pit spacing : 2 x 2m @ 3 plants/pit; Apply NPK 70:25:25 kg/ha
13. Scientists responsible for developing the variety : Aravindakshan K., Jayaprakash Naik B., Giridharan M. P., Rajamony L., Shyam S. Kurup, Neema V. P.

1. Crop : Ridge gourd (*Luffa acutangula*)
2. Variety : Haritham (L.A -1)
3. Method of breeding : Selection
4. Source / parent / pedigree : Local collection from Pilicode
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pilicode
7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : High yield, large fruit size, duration 95 days.
9. Key characters for identification : Broad light green leaves, light green cylindrical fruits with typical ridges and tapering towards the base. Mean length - 46.5 cm and girth - 20 cm. Fruit weight at vegetable harvest 650 g
10. Productivity : 13.2 t/ha
11. Area of adaptation : North zone of Kerala
12. Tips on cultivation : Season : September - February, Sow in pits of 60 cm diameter at a spacing 2 x 2m @ 3 plants/pit; Apply NPK 70:25:25 kg/ha
13. Scientists responsible for developing the variety : Rajamony L,
Dr. K. Aravindakshan, Jayaprakash Naik B.,
Nirmala Devi S., Shyam S. Kurup, Radha T.,
Giridharan M. P., Neema V. P., Anitha Karun

1. Crop : Ridge gourd
2. Variety : Deepthi (LA 7)
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Local collection from Cherthala
5. Year of release and authority : 2004 - Kerala State Seed Sub Committee meeting
6. Evolved at : Dep. of Olericulture, College of Horti., Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : Medium maturity group, resistant to mosaic under field conditions. 63 days to first harvest.
9. Key characters for identification : Green ovate leaves fruits are green medium sized with finely wrinkled surface. Fruit length 23 cm and girth 14.9 cm. Pedicel end of fruit is tapered and fruit weight is 164 g.
10. Productivity : 12.7 t/ha
11. Area of adaptation : Central Zone of Kerala
12. Tips on cultivation : Season : September - December and January - April. Seed rate : 2.5 – 3 kg/ha, Sow in pits of 60 cm diameter at a spacing of 2m x 2m. Apply NPK – 70:25:25
13. Scientists responsible for developing the variety : Nirmala Devi S.,
Sadhan Kumar P.G., Sally K. Mathew, Abdul Vahab M.
Rajan S., Gopalakrishnan T.R.

1. Crop : Ivy gourd (*Coccinia indica*)
 2. Variety : Sulabha (CG 23)
 3. Method of breeding : Clonal selection
 4. Source / parent / pedigree : Local collection from Kollam
 5. Year of release and authority : 2004 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Olericulture, College of Horticulture, Vellanikkara
 7. Registration / notification details : No. 597CE, dt 25.4.2006
 8. Specific advantages / features : Gynoecious, perennial line which sets fruits parthenocarpically. Long fruits suitable for salads and pickling.
 9. Key characters for identification : Three lobed leaves and long, pale green fruits with continuous striations. Fruit length 9.25 cm and fruit weight 18.48 g
 10. Productivity : 60 t/ha
 11. Area of adaptation : Central Zone of Kerala
 12. Tips on cultivation : Planting season : May - June & September - October; Plant 3 noded cuttings in pits at a spacing of 2 x 2 m. Apply organic manure – 25 t/ha
 13. Scientists responsible for developing the variety : Sadhankumar P.G., Raju V.K., Nirmala devi S., Rajan S., Suresh Babu K.V., Gopalakrishnan T.R.
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1. Crop : Drumstick (*Muringa oleifera*)
2. Variety : Anupama
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : MD 44, a local collection from Mannarkkad
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Olericulture, College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High yielding, medium long, green pods with excellent cooking quality
9. Key characters for identification : Flowers white with greenish tint, leaves green, stem with whitish tint, fruits green with medium length (56 cm) and girth (6.2 cm).
10. Productivity : 32 kg/plant
11. Area of adaptation : Warm humid tropics
12. Tips on cultivation : Require good sun light for growth and productivity, propagated through limb cuttings during April-May, flowers during October- November and March-April
13. Scientists responsible for developing the variety : Suresh Babu.K.V George.T.E, Rajan.S, Gopalakrishnan.T.R, Raju.V.K

Tuber Crops

1. Crop : Cassava (*Manihot esculenta*)
 2. Variety : Nidhi
 3. Method of breeding : Clonal Selection
 4. Source / parent / pedigree : Local collection Koombuvella
 5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
 6. Evolved at : ORARS, Kayamkulam
 7. Registration / notification details :
 8. Specific advantages / features : Short duration (6 months) variety with low HCN content (20 ppm) and good cooking quality. Tolerant to cassava mosaic and moisture stress. Starch content - 26.8%
 9. Key characters for identification : Tall (2.1 m) and non-branching with grey tuber skin
 10. Productivity : 25.1 t / ha
 11. Area of adaptation : Onattukara (coastal sandy tract)
 12. Tips on cultivation : Spacing - 75 cm x 75 cm; Apply Organic manure - 12.5t/ha. NPK - 75:75:75 kg/ha
 13. Scientists responsible for developing the variety : Shyam S. Kurup, Balakrishna Pillai K., Sukumaran Nair S., Bhavani Devi S.
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1. Crop : Cassava
2. Variety : Kalpaka (KMC 1)
3. Method of breeding : Clonal Selection
4. Source / parent / pedigree : Ramanthala
5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Kumarakom
7. Registration / notification details :
8. Specific advantages / features : Tubers with high starch content (31.4%); protein content 10.09 mg /100 g tuber. Cassava mosaic absent, tolerant to brown leaf spot and low spider mite incidence.
9. Key characters for identification : Short duration (6 months), non-branching variety. Tubers 35-41 cm long.
10. Productivity : 42.55 t/ha under intercropped situation, 61.20 t/ ha in the open
11. Area of adaptation : As intercrop in the coconut gardens in Kuttanad and also as a pure crop
12. Tips on cultivation : Spacing: 75 x 75 cm; Apply Organic manure - 12.5t/ha. NPK - 75:75:75 kg/ha
13. Scientists responsible for developing the variety : Inasi K.A., Alice Antony, Sreekumar K., Dr. U.Mohammed Kunju, Sosamma Cherian, Nair R.R.

1. Crop	:	Cassava
2. Variety	:	Vellayani Hraswa
3. Method of breeding	:	Clonal selection
4. Source / parent / pedigree	:	Nedumangad local
5. Year of release and authority	:	2002 - 21 st Kerala State Seed Sub Committee meeting
6. Evolved at	:	Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
7. Registration / notification details :		
8. Specific advantages / features	:	Short duration (155-180 days) variety with creamy white tuber flesh. Moderately susceptible to cassava mosaic virus. Very good cooking quality
9. Key characters for identification :		Dwarf plants with branching habit and retaining maximum number of leaves till harvest
10. Productivity	:	44 t/ha
11. Area of adaptation	:	Throughout Kerala
12. Tips on cultivation	:	Spacing - 90x90 cm; Apply Organic manure –12.5 t/ha NPK - 100:100:100 kg/ha
13. Scientists responsible for developing the variety	:	Harikrishnan Nair K., Dommen M., Suharban M., Geetha D., Kamalam N., Rajamony L., Vijayaraghavakumar, Babu Mathew P.

1. Crop	:	Sweet potato (<i>Ipomoea batatas</i>)
2. Variety	:	Kanjangad (ACV 1)
3. Method of breeding	:	Clonal selection
4. Source / parent / pedigree	:	Kanjangad local
5. Year of release and authority	:	1992 - Kerala State Seed Sub Committee meeting
6. Evolved at	:	Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
7. Registration / notification details :		
8. Specific advantages / features	:	Purple tubers with yellow flesh; low weevil incidence and tolerant to partial shade
9. Key characters for identification :		Spreading type, with duration of 115 days. Green vines, dark brown young leaves, medium sized spindle shaped, and purple coloured tubers with yellow flesh.
10. Productivity	:	12 t/ha
11. Area of adaptation	:	Throughout Kerala
12. Tips on cultivation	:	Suited to <i>Kharif</i> season in uplands as rainfed crop. Apply Organic manure - 10 t/ha, NPK – 75:50:75 kg/ha
13. Scientists responsible for developing the variety	:	Manju P., Sunny K. Dommen, Gopinathan Nair V., Mohanakumaran N.

1. Crop : Greater Yam (*Dioscorea alata*)
2. Variety : Indu (KM-DA 1)
3. Method of breeding : Selection
4. Method of breeding : TCR-5 (IC-44209)
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
2002 - 9th Central Sub Committee meeting
6. Evolved at : RARS, Kumarakom
7. Registration / notification details :
8. Specific advantages / features : Shade tolerant variety with 8 months duration
9. Key characters for identification : Trailing type plants with shallow tuberization. Digitate tubers have brownish black skin and white flesh.
10. Productivity : 3.93 kg/plant (as intercrop of coconut)
11. Area of adaptation : Reclaimed alluvial soils of Kuttanad
12. Tips on cultivation : Apply NPK 80:60:80 kg/ha; Spacing 1m x 1m
13. Scientists responsible for developing the variety : Alice Antony,
Inasi K.A., Sreekumar K., Mohammed Kunju U.,
Sosamma Cherian, Nair R.R.

1. Crop : Coleus (*Solenostemon rotundifolius* L.)
2. Variety : Nidhi (CP-79)
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : NBPGR collection IC 85708
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : RARS, Pattambi
7. Registration / notification details :
8. Specific advantages / features : High yield medium sized tubers, good cooking quality, early maturity
9. Key characters for identification : Characteristic aroma, oblong shaped tubers and early maturity (120-130 days)
10. Productivity : 27.9 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Plant 3-4 node cuttings on raised beds. Spacing – 30 x 15 cm, Apply Organic manure - 10t/ha, NPK - 30:60:50 kg/ha
13. Scientists responsible for developing the variety : George T.E.,
Jyothi M. L., Narayanankutty M. C., Syamakumari S.S.,
Krishnan Nair N., Asha Shankar, Narayanankutty C. ,
Salikkutty Joseph, santha K.K., Mareen Abraham
Radhakrishnan V.V., Balachandran P.V.

1. Crop : Coleus
2. Variety : Suphala
3. Method of breeding : *In vitro* mutagenesis followed by somaclonal selection
4. Source/parent/ pedigree : Tissue culture mutant derived from a local cultivar
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Plant Breeding & Genetics, College of Horticulture, Vellanikkara
7. Registration /Notifications :
8. Specific advantages/features : High yield (Potential yield - 33.2t/ha) with medium duration (120 - 140 days) and adaptable for year round cultivation.
9. Key characters for identification : Robust plants with dark green thick leaves and short internodes. Tubers bigger sized and emerge mostly from basal nodes.
10. Productivity : 15.93 t/ha
11. Area of adaptation : Adaptable for year round cultivation in central zone of Kerala
12. Tips on cultivation : Performs well during July - December.
13. Scientists responsible for developing the variety : Mareen Abraham
Radhakrishnan V. V.

Fruit Crops

1.	Crop	:	Banana (<i>Musa</i> spp.)
2.	Variety	:	BRS - 1
3.	Method of breeding	:	Hybridization
4.	Source / parent / pedigree	:	Agniswar x Pisang Lilin
5.	Year of release and authority	:	1998 - 19 th Kerala State Seed Sub Committee meeting 2002 - 9 th Central Sub Committee meeting
6.	Evolved at	:	Banana Research Station, Kannara
7.	Registration / notification details	:	
8.	Specific advantages / features	:	Highly resistant to Sigatoka leaf spot and Panama wilt. Resistant to rhizome weevil and pseudostem borer.
9.	Key characters for identification	:	Bunch held at an angle with straight, medium green fruits. Triploid plants belonging to medium maturity group. Plant height - 240 cm.
10.	Productivity	:	25 t / ha
11.	Area of adaptation	:	Throughout Kerala
12.	Tips on cultivation	:	Spacing : 2.1 m x 2.1 m, Apply -Organic manure-10kg/pl. NPK-100:200:400 g/plant
13.	Scientists responsible for developing the variety	:	Karmacharya J. K Aravindakshan M., Valsalakumari P. K., Rajeevan P. K. Rema Menon, Baby Latha A. K., Prasannakumari Amma S., Pushkaran K., Rajamony L., Premalatha T., Estelitta S., Radhakrishnan T.C., Charles S.J. and Pillai J.S.K.

1.	Crop	:	Banana
2.	Variety	:	BRS-2
3.	Method of breeding	:	Hybridization
4.	Source / parent / pedigree	:	Vannan x Pisang Lilin
5.	Year of release and authority	:	1998 - 19 th Kerala State Seed Sub Committee meeting
6.	Evolved at	:	Banana Research Station, Kannara
7.	Registration / notification details	:	2002 - 9 th Central Sub Committee meeting
8.	Specific advantages / features	:	Moderately resistant to Sigatoka leaf spot and Panama wilt.
9.	Key characters for identification	:	Pink- purple pigmentation of midrib dorsal surface. Medium sized bunches with short, plump, bottle necked, medium green fruits at maturity.
10.	Productivity	:	29.4 t/ ha
11.	Area of adaptation	:	Throughout Kerala
12.	Tips on cultivation	:	Spacing- 2.1m x 2.1m; Apply -Organic manure- 10kg/pl. NPK-100:200:400 g/plant
13.	Scientists responsible for developing the variety	:	Karmacharya J. K Aravindakshan M., Valsalakumari P. K., Rajeevan P. K. Rema Menon, Baby Latha A. K., Prasannakumari Amma S., Pushkaran K., Rajamony L., Premalatha T., Estelitta S., Radhakrishnan T.C., Charles S.J. and Pillai J.S.K.

1. Crop : Pineapple (*Ananas comosus*)
2. Variety : Amritha
3. Method of breeding : Hybridization
4. Source / parent / pedigree : Kew x Ripley Queen
5. Year of release and authority : 2004 - 22nd Kerala State Seed Sub Committee meeting
6. Evolved at : Pineapple Research Centre, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : Non-fibrous golden yellow flesh with rich aroma, high TSS and low acidity. High yield with minimum pest and disease incidence.
9. Key characters for identification : Medium sized plants with erect and spiny pale green leaves having slight reddish tinge towards the tip. Fruits with golden yellow colour. Spirals left oriented.
10. Productivity : 80-85 tonnes/ha
11. Area of adaptation : Pineapple growing tracts of Kerala
12. Tips on cultivation : Spacing - In double rows 70 cm between rows and 30 cm between plants; Apply -Organic manure - 25t/ha
NPK - 320:160:320 kg/ha
13. Scientists responsible for developing the variety : Sudha devi P. K.,
Gopimony R., Alice Kurien, Radha T., Rajeevan P.K.,
Reghunath B. R., Varkey P.A., Pushkaran K.,
Darley Jose, Raju V. K., George T.E., Jacob John
Prasanna K. P., Baby Lissy Markose & three others

Spice Crops

1. Crop : Pepper (*Piper nigrum*)
 2. Variety : Panniyur 1
 3. Method of breeding : Hybridization and clonal selection
 4. Source / parent / pedigree : Uthirankotta x Cheriyananiakadan
 5. Year of release and authority : 1967
 6. Evolved at : PRS, Panniyur
 7. Registration / notification details : IC. No 360982
 8. Specific advantages / features : Prefers open conditions. Susceptible to major pests and diseases and sensitive to shaded conditions.
 9. Key characters for identification : Vigorous vine with cordate leaves and non pigmented shoot tip. Long spike (17 cm) with closely set bold berries.
 10. Productivity : 1.24 t/ha of dry pepper
 11. Area of adaptation : All pepper growing areas of Kerala
 12. Tips on cultivation : Apply Organic manure 10 kg/plant/annum
NPK - 50:50:150 g/plant/annum
 13. Scientists responsible for developing the variety : Venugopalan Nambiar P.K.
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1. Crop : Pepper
2. Variety : Krishna (Panniyur 2)
3. Method of breeding : Selection
4. Source / parent / pedigree : Balankotta
5. Year of release and authority : 1991 - Kerala State Seed Sub Committee meeting
6. Evolved at : PRS, Panniyur
7. Registration / notification details : IC No. 360983
8. Specific advantages / features : Tolerant to shade. High piperine content (6.6%).
9. Key characters for identification : Cordate leaves and non pigmented shoot tip, medium sized berries with spike length of about 12.3 cm
10. Productivity : 2.6 t/ha of dry pepper
11. Area of adaptation : All pepper growing areas of Kerala
12. Tips on cultivation : Apply - Organic manure 10kg/plant/year
NPK - 50:50:150 g/plant/annum
13. Scientists responsible for developing the variety : Sukumara Pillai V.,
Sasikumaran S., Ibrahim K.K., Mallika V.K.

1. Crop : Pepper
 2. Variety : Syama (Panniyur 3)
 3. Method of breeding : Hybridization
 4. Source / parent / pedigree : Uthirankotta x Cheriyaakanyakadan
 5. Year of release and authority : 1991 - Kerala State Seed Sub Committee meeting
 6. Evolved at : PRS, Panniyur
 7. Registration / notification details : IC No. 360984
 8. Specific advantages / features : Prefers open condition. High oleoresin content
 9. Key characters for identification : Long spikes with bold berries
 10. Productivity : 2 t/ha of dry pepper
 11. Area of adaptation : All pepper growing areas of Kerala
 12. Tips on cultivation : Apply - Organic manure 10kg/plant/year
NPK - 50:50:150 g/plant/annum
 13. Scientists responsible for developing the variety : Sukumara Pillai V.,
Sasikumaran S., Ibrahim K.K., Mallika V.K.
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1. Crop : Pepper
2. Variety : Anjana (Panniyur 4)
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : Kuthiravally II
5. Year of release and authority : 1991 - Kerala State Seed Sub Committee meeting
6. Evolved at : PRS, Panniyur
7. Registration / notification details : IC No.360985
8. Specific advantages / features : Tolerates shade and adverse climatic conditions
9. Key characters for identification : Cordate leaves, leaf length -13.6 cm, spike length 9.3 cm, berry medium sized.
10. Productivity : 1.3 t/ha of dry pepper
11. Area of adaptation : All pepper growing areas of Kerala
12. Tips on cultivation : Apply - Organic manure 10kg/plant/year
NPK - 50:50:150 g/plant/annum
13. Scientists responsible for developing the variety : Sukumara Pillai V.,
Sasikumaran S., Ibrahim K.K., Mallika V.K.

1. Crop : Pepper
 2. Variety : Panniyur 5
 3. Method of breeding : Clonal selection
 4. Source / parent / pedigree : Perumkodi
 5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
 6. Evolved at : PRS, Panniyur
 7. Registration / notification detail : IC No. 360986
 8. Specific advantages / features : High yield, medium maturity, come up well under mono-cropping and companion cropping. (Not resistant to major pests and diseases.) Tolerates adverse climatic conditions.
 9. Key characters for identification : Purple pigmented shoot tip with oval leaves
 10. Productivity : 2.4 t/ha of dry pepper
 11. Area of adaptation : All pepper growing tracts of Kerala
 12. Tips on cultivation : Apply - Organic manure 10kg/plant/year
NPK - 50:50:150 g/plant/annum
 13. Scientists responsible for developing the variety : Chandy K.C.,
Venugopalan Nambiar P.K., Sukumara Pillai V.
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1. Crop : Pepper
2. Variety : Panniyur 6
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : Karimunda type III
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : PRS, Panniyur
7. Registration / notification details : IC No. 360987,
2002 - 9th Central Sub Committee meeting.
8. Specific advantages / features : Stable and regular yield, tolerates partial shade and with stands adverse climatic conditions.
9. Key characters for identification : Bold attractive berries, faint pink shoot tip colour
10. Productivity : 2.1 t/ha of dry pepper
11. Area of adaptation : All pepper growing areas of Kerala
12. Tips on cultivation : Apply - Organic manure 10kg/plant/annum
NPK - 50:50:150 g/plant/annum
13. Scientists responsible for developing the variety : Ibrahim K.K.
Arya K., Rajagopalan A., Satheesan K.N.,
Unnikrishnan Nair P.K., Mammooty K.P.,
Gregory Zacharia, Vanaja T.

1. Crop : Pepper
2. Variety : Panniyur 7
3. Method of breeding : Selection
4. Source / parent / pedigree : Kalluvally
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : PRS, Panniyur
7. Registration / notification details : C No.360988, 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : Hardy variety with stable and regular yield. Tolerates adverse climatic conditions and partial shade. High piperine content (5.57%)
9. Key characters for identification : Plant height - 3.5-6.5m. Shoot tip purple pigmented. Long, straight spikes (19.4cm). Cordate leaves with wavy margin
10. Productivity : 1.4 t/ha of dry pepper
11. Area of adaptation : All pepper growing regions of Kerala
12. Tips on cultivation : Apply - Organic manure 10 kg/plant
NPK - 50:50:150 g/plant
13. Scientists responsible for developing the variety : Ibrahim K.K.,
Arya K., Rajagopalan A., Satheesan K.N.,
Unnikrishnan Nair P.K., Mammooty K.P.,
Gregory Zacharia, Vanaja T.

1. Crop : Cardamom (*Elattarium cardamomum*)
2. Variety : PV 1
3. Method of breeding : Selection
4. Source / parent / pedigree : Wayalar local
5. Year of release and authority : 1992 - Kerala State Seed Sub Committee meeting
6. Evolved at : CRS, Pampadumpara
7. Registration / notification details :
8. Specific advantages / features : Earliness in bearing
9. Key characters for identification : A Malabar variety with lean and lanky capsules having less than 7 mm width.
10. Productivity : 380 kg/ha
11. Area of adaptation : All cardamom growing areas of Kerala, Karnataka and Tamil Nadu
12. Tips on cultivation : Spacing - 1.5x1.5m to 2x2m. Apply - Organic manure-5kg/pl. NPK - 75:75:150 kg/ha
13. Scientists responsible for developing the variety : Vijayan P.K.,
Wilson K.I., Balakrishnan S., Remadevi L.

1. Crop : Cardamom
2. Variety : PV 2
3. Method of breeding : Selection
4. Source / parent / pedigree : PV 1
5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
6. Evolved at : CRS, Pampadumpara
7. Registration / notification details :
8. Specific advantages / features : Field tolerance to stem borer and relative tolerance to thrips. Long bold capsules (more than 80% of capsules over 7mm), high dry pod recovery (23.8%)
9. Key characters for identification : A vazhuka variety having long panicle with higher internodal length; dried capsules are ovoid to elliptical in shape with parrot green colour.
10. Productivity : 982 kg/ha
11. Area of adaptation : High ranges of Idukki district
12. Tips on cultivation : Spacing- 2x2m to 3x2m; Apply Organic manure-5kg/pl. NPK - 75:75:150 kg/ha
13. Scientists responsible for developing the variety : Backiyarani S., Joseph Rajkumar A., Kuriakose K. P., Shajan V.R., Sunny K. Oommen, Sainamole Kurien P., Murugan M. Mini Raj N., Arthur Jacob, . Abraham C.T, Suma Paulose, Hebsy Bai, Kumaran K., Aipe K.C. and Vasanthakumar K.

1. Crop : Turmeric(*Curcuma longa*)
2. Variety : Kanthi
3. Method of breeding : Single plant selection
4. Source / parent / pedigree : Mydukur (Andhra Pradesh)
5. Year of release and authority : 1986 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plantation Crops, and Spices College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : Duration : 8-9 months, high yield, high curcumin (7.18 %), medium maturity group (240 – 270), not resistant to rhizome rot and leaf spot, not resistant to shoot borer
9. Key characters for identification : Fingers medium bold and closer internodes.
10. Productivity : 3.90 t/ha of dry rhizome.
11. Area of adaptation : Warm, humid, tropical climate of Kerala.
12. Tips on cultivation : Spacing : 25 X 25 cm, Apply : 30:30:60 kg NPK/ha
13. Scientists responsible for developing the variety : Valsala P.A., Alice Kurien, Nybe E.V., Sreekantan Nair G., Koshy Abhaham, Maicykutty P. Mathew, Vilasini T.N., Mary C.A.

1. Crop : Turmeric
 2. Variety : Sobha
 3. Method of breeding : Single plant selection
 4. Source / parent / pedigree : Methala local
 5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Plantation Crops and Spices
College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yield, high curcumin (7.39 %) and
oleoresin (19.95 %),
 9. Key characters for identification : Mother rhizomes big, bold fingers, closer internodes
and more tertiary rhizomes
 10. Productivity : 7.0 t/ha
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Spacing : 25 X 25 cm, Apply: 30:30:60 kg NPK/ha
 13. Scientists responsible for
developing the variety : Valsala P.A.,
Alice Kurien, Nybe E.V., Sreekantan Nair G.,
Koshy Abhaham, Maicykutty P. Mathew,
Vilasini T.N., Mary C.A. Mary
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1. Crop : Turmeric
2. Variety : Sona
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : Local from Chundakuzhy in Ernakulam district
5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
6. Evolved at : Department of Plantation Crops and Spices
College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : Medium duration variety (240-270 days), high
curcumin content (7.11 %)
9. Key characters for identification : Orange yellow, medium bold rhizomes with no tertiary
fingers. Scales prominent and dark brown
10. Productivity : 4.2 t/ha
11. Area of adaptation : Central zone of Kerala.
12. Tips on cultivation : Spacing : 25 x 25 cm, Apply : 30:30:60 kg NPK/ ha
13. Scientists responsible for
developing the variety : Alice Kurien,
Valsala P.A., Nybe E.V., Asha Sankar M,
Sreekantan Nair G.,

1. Crop : Turmeric
2. Variety : Varna
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : Collection from Mannarcad in Palakkad district
5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
6. Evolved at : Department of Plantation Crops and Spices
College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : Duration 240 - 270 days, curcumin content- 7.87 %
9. Key characters for identification : Tall plant with long and broad leaves; bright orange
yellow rhizome with tertiary fingers
10. Productivity : 4.2 t/ha
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Spacing : 25 x 25 cm Apply : 30:30:60 kg NPK/ha
13. Scientists responsible for
developing the variety : Alice Kurien,
Valsaia P.A., Nybe E.V., Asha Sankar M,
Sreekantan Nair G.,

1. Crop : Ginger (*Zingiber officinale* Rosc).
2. Variety : Athira (M VI)
3. Method of breeding : Induction of variation through tissue culture and
selection
4. Source / parent / pedigree : Local cultivar Maran
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Plantation Crops and Spices,
College of Horticulture, Vellanikkara
7. Registration / notification details : IC 0584128
8. Specific advantages / features : High yield, suitable for fresh and dry purpose,
less fibre (3.4%). Low pungency, high zingiberine,
tolerant to soft rot and bacterial wilt disease
9. Key characters for identification : Flat bold rhizomes suitable for fresh and dry ginger.
10. Productivity : Average fresh yield 21 t/ha. Potential fresh yield 30 t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Ideal for cultivation both as pure and inter crop
13. Scientists responsible for
developing the variety : Shylaja. M.R
Resmi Paul, Nybe.E.V, Koshy Abraham, Nazeem.P.A,
Valsala.P.A, Krishnan.S

1. Crop : Ginger (*Zingiber officinale* Rosc).
2. Variety : Karthika (970 M)
3. Method of breeding : Induction of variation through tissue culture and selection.
4. Source / parent / pedigree : Local cultivar Maran
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Plantation Crops and Spices, College of Horticulture, Vellanikkara
7. Registration / notification details : IC 0584129
8. Specific advantages / features : High yield, high pungency, high oil and oleoresin, tolerant to soft rot and bacterial wilt disease
9. Key characters for identification : Medium bold flat rhizomes suitable for fresh and dry ginger.
10. Productivity : Average fresh yield 19 t/ha. Potential fresh yield 27t/ha
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Ideal for cultivation both as pure and inter crop
13. Scientists responsible for developing the variety : Shylaja. M.R
Resmi Paul, Nybe.E.V, Koshy Abraham, Nazeem.P.A, Valsala.P.A, Krishnan.S1.

1. Crop : Cinnamon (*Cinnamomum zeylanicum*)
2. Variety : Sugandhini (ODC 13)
3. Method of breeding : Selection
4. Source / parent / pedigree : Germplasm collection at AMPRS, Odakkali
5. Year of release and authority : 2000 - Kerala State Seed Sub Committee meeting
6. Evolved at : AMPRS, Odakkali
7. Registration / notification details : 2002 - 9th Central Sub Committee meeting
8. Specific advantages / features : Oil recovery 1.2-1.6%. Eugenol content of leaf oil- 93.67%. No serious pests and diseases
9. Key characters for identification : Semi- compact canopy, medium to large leaves with purple coloured new flesh.
10. Productivity : 180-200 kg oil/ha
11. Area of adaptation : Mid lands and high ranges, both in open and as an inter crop in coconut plantation
12. Tips on cultivation : Spacing-4x4 m as monocrop; Apply - Organic manure- 20kg/pl. NPK - 200:180:200 g/plant
13. Scientists responsible for developing the variety : Joy P.P.,
Thomas J., Samuel Mathew, Jayasree Shankar

Pulse Crops

- | | | |
|---|---|---|
| 1. Crop | : | Cowpea (pulse) (<i>Vigna unguiculata</i> .Var. <i>unguiculata</i>) |
| 2. Variety | : | Kanakamony (PTB 1) |
| 3. Method of breeding | : | Pure line selection |
| 4. Source / parent / pedigree | : | Kunnamkulam local |
| 5. Year of release and authority | : | 1977 - Kerala State Seed Sub Committee meeting |
| 6. Evolved at | : | RARS, Pattambi |
| 7. Registration / notification details : | | |
| 8. Specific advantages / features | : | High yielding dual purpose variety, suitable for kharif and summer seasons |
| 9. Key characters for identification : | | Duration : 75-80 days, semi-trailing growth habit, dark greenpods. Bold, reddish brown seeds. Average pod length - 17.8 cm; seeds/pod- 17 |
| 10. Productivity | : | 7 t/ha |
| 11. Area of adaptation | : | Throughout Kerala |
| 12. Tips on cultivation | : | Season - Suited to <i>Kharif</i> season as a pure crop in uplands and Rabi and Summer seasons; Seed rate : 20-25 kg/ ha; Spacing : 30 x 20 cm; Apply NPK - 20:30:10 kg/ha |
| 13. Scientists responsible for developing the variety | : | Viswanathan T.V.
Chandrika P. |
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- | | | |
|---|---|--|
| 1. Crop | : | Cowpea (pulse)(<i>Vigna unguiculata</i> .Var. <i>unguiculata</i>) |
| 2. Variety | : | Krishnamony (PTB 2) |
| 3. Method of breeding | : | Hybridization and Selection |
| 4. Source / parent / pedigree | : | P118 x Kolinjipayar |
| 5. Year of release and authority | : | 1982 - Kerala State Seed Sub Committee meeting |
| 6. Evolved at | : | RARS, Pattambi |
| 7. Registration / notification details : | | |
| 8. Specific advantages / features | : | Synchronous pod maturity, bold black grains and tolerant to yellow mosaic viruses |
| 9. Key characters for identification with | : | Duration - 55-60 days. Bushy, non-trailing variety moderate branching and synchronous pod maturity. |
| 10. Productivity | : | 600 to 800 kg/ha |
| 11. Area of adaptation | : | Throughout Kerala |
| 12. Tips on cultivation | : | Summer rice fallows and other moisture stress situations; Apply -Organic manure - 20t/ha
NPK - 20:30:10 kg/ha |
| 13. Scientists responsible for developing the variety | : | Viswanathan T.V.,
Chandrika P. |

1. Crop : Cowpea (pulse)
 2. Variety : **Shubra**
 3. Method of breeding : Combination breeding
 4. Source / parent / pedigree : IC 38956 x Chharodi
 5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
 7. Registration / notification details :
 8. Specific advantages / features : Suited to summer rice fallows
 9. Key characters for identification : Duration – 67 days
 10. Productivity : 810 kg / ha
 11. Area of adaptation : Southern zone of Kerala
 12. Tips on cultivation : Suitable for Summer rice fallows; Apply Organic
manure - 20t/ha and NPK - 20:30:10 kg/ha
 13. Scientists responsible for
developing the variety : Abdul Khader K.M. ,
Ramachandran Nair N., Nalinakumari T.,
Manikantan Nair V, Vikraman Nair R.
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1. Crop : Cowpea (pulse)
2. Variety : **Pournami**
3. Method of breeding : introduction
4. Source / parent / pedigree : Introduction from Tamil Nadu
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details :
8. Specific advantages / features : Pendant pods, susceptible to aphid, moderately
resistant to pod borer
9. Key characters for identification : Duration – 74 -77 days, Erect growth habit, off-white
seeds and glabrous leaves and pods
10. Productivity : 1210 kg per ha
11. Area of adaptation : Onattukara region
12. Tips on cultivation : Summer rice fallows; Apply Organic manure-
20t/ha and NPK - 20:30:10 kg/ha
13. Scientists responsible for
developing the variety : Sivan Pillai K.

1. Crop : Cowpea (pulse)
 2. Variety : Sreya (Culture 5)
 3. Method of breeding : Hybridization and selection
 4. Source / parent / pedigree : Pournami x COVU-623
 5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
 6. Evolved at : ORARS, Kayamkulam
 7. Registration / notification details : IC 584688
 8. Specific advantages / features : High yield, duration 80-85 days, tolerant to drought and suitable for summer rice fallows
 9. Key characters for identification : Purple pods and purple streaks at the base of the petiole. Seeds biscuit coloured, Tolerant to leaf rust, aphids, pod borer and American serpentine leaf miner.
 10. Productivity : Grain - 1072Kg/ha
 11. Area of adaptation : Summer rice fallows of Onattukara
 12. Tips on cultivation : Spacing of 20X10cm. Apply 20:30:10 kg N: P:K /ha
 13. Scientists responsible for developing the variety : Bindhu.M.R
Sverup John, Alexander. D, Suja.G, Indira.M,
Sushamakumari.P, Susamma.P.George, Vilasini.T.N,
Nair.N.R, Sivan Pillai.K.
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1. Crop : Cowpea (pulse)
2. Variety : Hridya, (Culture 9) (CDM-1)
3. Method of breeding : Mass selection
4. Source / parent / pedigree : Selection from local kuttippayar
5. Year of release and authority : 2010- 24th Kerala State Seed Sub Committee meeting.
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details : IC 584689
8. Specific advantages / features : Extra short duration (55 days), high yield, synchronized maturity, tolerant to pests and diseases
9. Key characters for identification : Green vegetative parts and pods. Seeds straw coloured. Tolerant to leaf rust, aphids, pod borer and American serpentine leaf miner.
10. Productivity : 1050 kg /ha
11. Area of adaptation : Summer rice fallows of Onattukara
12. Tips on cultivation : Spacing 25 x 15 cm. Apply 20:30:10kg N: P:K/ha
13. Scientists responsible for developing the variety : Bindhu.M.R
Sverup John, Alexander. D, Suja.G, Indira.M,
Sushamakumari.P, Susamma.P.George, Vilasini.T.N,
Nair.N.R, Sivan Pillai.K.

1. Crop : Black gram (*Vigna mungo*)
 2. Variety : Syama (KYM-1)
 3. Method of breeding : Introduction
 4. Source / parent / pedigree : Introduction from Tamil Nadu
 5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
 6. Evolved at : ORARS, Kayakulam
 7. Registration / notification details :
 8. Specific advantages / features : High yield
 9. Key characters for identification : Duration - 65 to 67 days. Erect and non-trailing plants. Sparsely hairy leaves and pods. Pods erect
 10. Productivity : 1172 kg per ha
 11. Area of adaptation : Onattukara
 12. Tips on cultivation : Suited to Summer rice fallows; Apply Organic manure- 20t/ha and NPK - 20:30:30 kg/ha
 13. Scientists responsible for developing the variety : Sivan Pillai K.
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1. Crop : Black gram
2. Variety : Sumanjana
3. Method of breeding : Pure line selection
4. Source / parent / pedigree : Co Bg 9
5. Year of release and authority : 2000 - 20th Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics, College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : Suited to summer rice fallows
9. Key characters for identification : Duration 75 days
10. Productivity : 933 kg / ha
11. Area of adaptation : Southern districts of Kerala
12. Tips on cultivation : Suited to Summer rice fallows; Apply Organic manure- 20t/ha and NPK - 20:30:30 kg/ha
13. Scientists responsible for developing the variety : Suma Bai D.I., Manju P., Manikantan Nair P., Vikraman Nair R.

1. Crop : Groundnut (*Arachis hypogaea*)
 2. Variety : TG. 3
 3. Method of breeding : Mutation
 4. Source / parent / pedigree : Spanish Improved
 5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
 7. Registration / notification details :
 8. Specific advantages / features : Early, bunch type variety. Suitable as intercrop in
coconut and tapioca.
 9. Key characters for identification : Semitall, green and pubescent stem and green pegs.
Kernel medium sized with flesh coloured testa
 10. Productivity : Pods : Kharif - 2880 kg/ha; Summer - 2745kg/ha
 11. Area of adaptation : Central and Southern districts of Kerala
 12. Tips on cultivation : Seed rate for Pure crop – 100 kg/ha,
Intercrop in coconut - 80 kg/ha; Intercrop in tapioca –
50 kg/ha; Apply NPK:10:75:75 kg/ha
 13. Scientists responsible for
developing the variety : Gopinathan Nair V.,
Pushkaran K.
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1. Crop : Groundnut
2. Variety : TG. 14
3. Method of breeding : Recombination Breeding
4. Source / parent / pedigree : Mutants from Spanish Improved
5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : Early, bunch type variety. Shallow pod burial. Suitable
also as intercrop with tapioca.
9. Key characters for identification : Semitall, bunch type variety having light green,
pubescent stem with purple tinge and light purple
pegs. Kernel medium sized with rose coloured testa
10. Productivity : Pods Kharif - 3136 kg/ha Summer - 2472 kg/ha
11. Area of adaptation : Central and Southern districts of Kerala
12. Tips on cultivation : Seed rate for Pure crop – 100 kg/ha; Intercrop in coconut
- 80 kg/ha; Intercrop in tapioca – 50 kg/ha;
Apply NPK-10:75:75 kg/ha
13. Scientists responsible for
developing the variety : Gopinathan Nair V.
Pushkaran K.

1. Crop : Groundnut
 2. Variety : Spanish Improved
 3. Method of breeding : Introduction
 4. Source / parent / pedigree : Exotic variety
 5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
 6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
 7. Registration / notification details :
 8. Specific advantages / features : Early bunch type. Suitable also as intercrop with
tapioca.
 9. Key characters for identification : Semitali, bunch type variety having light green,
pubescent stem and green pegs. Kernel medium sized
with flesh coloured testa
 10. Productivity : Pods - 2873 kg/ ha
 11. Area of adaptation : Central and Southern districts of Kerala
 12. Tips on cultivation : Seed rate for Pure crop – 100 kg/ha, Intercrop in coconut
80 kg/ha; Intercrop in tapioca – 50 kg/ha;
Apply NPK-10:75:75 kg/ha
 13. Scientists responsible for
developing the variety : Gopinathan Nair V.,
Pushkaran K.
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1. Crop : Groundnut
2. Variety : Sneha
3. Method of breeding : Combination breeding
4. Source / parent / pedigree : IES 883 x JL 24
5. Year of release and authority : 1998 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Genetics and Plant Breeding,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yield with early maturity
9. Key characters for identification : Medium sized pods with prominent beak
10. Productivity : 2400 kg/ha
1. Area of adaptation : Upland conditions of Thiruvananthapuram district
2. Tips on cultivation : Seed rate for Pure crop – 100 kg/ha, Intercrop in coconut
- 80 kg/ha; Intercrop in tapioca – 50 kg/ha;
Apply NPK-10:75:75 kg/ha
3. Scientists responsible. for
developing the variety : Suma Bai D.I.,
Manju P., Mohanankumaran N., Sverup John,
Wilson D., Gopimony R., Vijayagopal P.D.

1. Crop : Groundnut
2. Variety : Snigdha
3. Method of breeding : Combination breeding
4. Source / parent / pedigree : Dh (E) 32 x JL 24
5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yield with early maturity
9. Key characters for identification : Medium sized pods with prominent beak
10. Productivity : 2458 kg/ha
11. Area of adaptation : Upland conditions of Thiruvananthapuram district
12. Tips on cultivation : Seed rate for Pure crop - 100 kg/ha; Intercrop in coconut
- 80 kg/ha; Intercrop in tapioca - 50 kg/ha;
Apply NPK-10:75:75 kg/ha
13. Scientists responsible for developing the variety : Suma Bai D.I.,
Manju P., Mohanankumaran N., Sverup John,
Wilson D., Gopimony R., Vijayagopal P.D

Oil Seed Crops

1. Crop : Sesame (*Sesamum indicum*)
 2. Variety : Kayamkulam - 1
 3. Method of breeding : Pure line selection
 4. Source / parent / pedigree : Kayamkulam local
 5. Year of release and authority : 1972 - Kerala State Seed Sub Committee meeting
 6. Evolved at : ORARS, Kayamkulam
 7. Registration / notification details : IC No.397786
 8. Specific advantages / features : Duration 75-80 days, Oil with superior quality and flavour, oil content 51.5 %
 9. Key characters for identification : Moderate branching type, height 68 cm
 10. Productivity : 300-350 kg per ha
 11. Area of adaptation : Onattukara
 12. Tips on cultivation : Season (January - April); Apply Organic manure - 5 t/ha and NPK - 30:15:30 kg/ha
 13. Scientists responsible for developing the variety : Santhakumari S.
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1. Crop : Sesame
2. Variety : Thilothama (KYM - 2)
3. Method of breeding : Hybridization and selection
4. Source / parent / pedigree : PT-58-35 X KI
5. Year of release and authority : 1981 - Kerala State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details :
8. Specific advantages / features : Multicapsuled (3 nos) axils, duration 80-85 days, oil content 45.5 %
9. Key characters for identification : Shy branching plant (2-4), height - 69 cm
10. Productivity : 400 - 500 kg/ha
11. Area of adaptation : Onattukara region
12. Tips on cultivation : Summer planting; Apply Organic manure - 5 t/ha and NPK - 30:15:30 kg/ha
13. Scientists responsible for developing the variety : Santhakumari S.

1. Crop : Sesame
 2. Variety : Thilathara
 3. Method of breeding : Hybridization
 4. Source / parent / pedigree : CST 785 x B 14 (HS)
 5. Year of release and authority : 1998 - 19th Kerala State Seed Sub Committee meeting
 6. Evolved at : ORARS, Kayamkulam
 7. Registration / notification details : IC No.397788
 8. Specific advantages / features : High yield
 9. Key characters for identification : Plant height 93 cm.
 10. Productivity : 572 kg/ha
 11. Area of adaptation : Onattukara
 12. Tips on cultivation : Apply Organic manure - 5tons/ha; NPK - 30:15:30 kg/ha
 13. Scientists responsible for developing the variety : Ramachandran Nair N.,
Sukumaran Nair, Sivan Pillai N., Suja G., Indira M.I.
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1. Crop : Sesame
2. Variety : Thilarani (Cul. No.4)
3. Method of breeding : Combination breeding
4. Source / parent / pedigree : Thilak x Kayamkulam -1
5. Year of release and authority : 2002 - 21st State Seed Sub Committee meeting
6. Evolved at : ORARS, Kayamkulam
7. Registration / notification details : IC No.397789
8. Specific advantages / features : Early maturing (77 days), tolerant to major pests and diseases.
9. Key characters for identification : Semi-tall (81 cm). Brown dry capsules with compact packing. Dark brown seeds
10. Productivity : 580 kg / ha
11. Area of adaptation : Onattukara region
12. Tips on cultivation : Suited to Summer rice fallows; Apply organic manure- 5 t/ha and NPK - 30:15:30 kg/ha
13. Scientists responsible for developing the variety : Sverup John,
Alexander D., Sushama kumari P., M.R. Bindu

1. Crop : Sesame
2. Variety : Soma (ACV-1)
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Punjab type No.38
5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : Multi-loculed capsules, white bold seeds, colourless
oil, oil content – 50.1 %, tolerant to leaf spot and
powdery mildew.
9. Key characters for identification : Shy branching, determinate growth, height 91 cm.
Multiloculed capsules with white, bold seeds
10. Productivity : 713 kg /ha
11. Area of adaptation : Coastal sandy tracts of Kerala – Onattukara regions
12. Tips on cultivation : Suited to Summer season; Apply Organic manure - 5
tons/ha and NPK - 30:15:30 kg/ha
13. Scientists responsible for
developing the variety : Gopinathan Nair V.,
Sverup John

1. Crop : Sesame
2. Variety : Surya (ACV 2)
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : West Bengal type No.42
5. Year of release and authority : 1985 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : Tolerant to drought but susceptible to stem and leaf
spot diseases
9. Key characters for identification : Shy branching (3-4), height 96 cm and with multiloculed
capsules
10. Productivity : 355 kg/ha
11. Area of adaptation : Southern districts of Kerala.
12. Tips on cultivation : Season – *Rabi*. Also suited to summer rice fallows.
Apply Organic manure - 5 tons/ha NPK - 30:15:30 kg/ha
13. Scientists responsible for
developing the variety : Gopinathan Nair V.,
Sverup John

1. Crop : Sesame
2. Variety : Thilak (ACV-3)
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Muthukulam local
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani

7. Registration / notification details : IC No.397787
8. Specific advantages / features : Tolerant to moisture stress
9. Key characters for identification : Profuse branching (5-8), height 101 cm.
Seed colour - Blackish brown
10. Productivity : 648 kg/ha
11. Area of adaptation : Coastal sandy tracts of Kerala – Onattukara regions
12. Tips on cultivation : Season - Summer season; Apply Organic manure-
5 t/ha NPK - 30:15:30 kg/ha
13. Scientists responsible for developing the variety : Gopinathan Nair V.,
Sverup John, Wilson D., Suma Bai D.I.

Medicinal and Aromatic Plants

1. Crop : Long pepper (Thippali) (*Piper longum*)
 2. Variety : Viswam (KAU - LP-1)
 3. Method of breeding : Single plant selection
 4. Source / parent / pedigree : Collection 'Cheema Thippali'
 5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
 6. Evolved at : College of Horticulture, Vellanikkara
 7. Registration / notification details :
 8. Specific advantages / features : High yield, suited for intercropping in coconut garden. Alkaloid content - 2.83 %. No major diseases noticed
 9. Key characters for identification : Medium maturity group, prolonged flowering phase, stout, short and thick spike.
 10. Productivity : 433.3 kg of dry spike / ha as intercrop in coconut gardens
 11. Area of adaptation : Throughout Kerala
 12. Tips on cultivation : Spacing : 60 x 60 cm; Apply - FYM 20 tonnes / ha
 13. Scientists responsible for developing the variety : Viswanathan T.V., Radhakrishnan V.V., Prasannakumari K.T., Augustin A.
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1. Crop : Kacholam (*Kaempferia galanga L.*)
2. Variety : Kasthuri
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : Collection from Koothattukulam in Ernakulam district
5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plantation crops and spices,, College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : Duration - 210-240 days. Tolerant to shade and can be as intercrop in coconut gardens
9. Key characters for identification : Robust plants with more number of leaves which are larger in size. Light brown rhizome
10. Productivity : 2.27 t/ha of dry rhizome
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Spacing - 20 x 15 cm. Seed rate - 750 kg/ha
13. Scientists responsible for developing the variety : Alice Kurian, Augustin A., Nybe E.V., Prasannakumari Amma,S., Sreekandan Nair G.

1. Crop : Kacholam
2. Variety : Rajani
3. Method of breeding : Clonal selection
4. Source / parent / pedigree : Collection from Chelavu in Thodupuzha of Idukki district
5. Year of release and authority : 2002 - 21st Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plantation crops and spices,
College of Horticulture, Vellanikkara
7. Registration / notification details :
8. Specific advantages / features : High oleoresin content (7.68 %), duration - 210-240 days
9. Key characters for identification : Leaves fewer and small. Rhizomes medium bold, creamy white in colour and more in number, particularly secondary rhizomes.
10. Productivity : 2.19 t of dry rhizomes per hectare
11. Area of adaptation : Central zone of Kerala
12. Tips on cultivation : Spacing - 20 x 15 cm. Seed rate - 750 kg/ha
13. Scientists responsible for developing the variety : Alice Kurian.
Augustin A., Nybe E.V., Prasannakumari Amma S.,
Sreekandan Nair G.

1. Crop : Lemongrass (*Cymbopogon flexuosus*)
2. Variety : Sugandhi (OD – 19)
3. Method of breeding : Selection
4. Source / parent / pedigree : Local collection from Nenmara
5. Year of release and authority : 1988 - Kerala State Seed Sub Committee meeting
6. Evolved at : AMPRS, Odakkali
7. Registration / notification details :
8. Specific advantages / features : High yield with good quality oil
9. Key characters for identification : Compact plants with reddish purple culm and straight, thin, green leaves, slightly rolled or folded up.
10. Productivity : Oil yield - 100 kg/ha
11. Area of adaptation : Major lemongrass growing areas of Kerala
12. Tips on cultivation : Propagated by slips and seeds. Spacing - 15 - 20 cm
Apply Compost - 2500 kg/ha; and wood ash - 1875kg/ha
13. Scientists responsible for developing the variety : Crop improvement Division of AMPRS, Odakkali

1. Crop : Atalodakam (*Adhatoda* spp.)
2. Variety : Ajagandhi
3. Method of breeding : Clonal selection
4. Source/parent/ pedigree : Local from Pilicode, Kannur district
5. Year of release and authority : 2006 - 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Plantation Crops and Spices.
College of Horticulture, Veilanikkara
7. Registration /notifications :
8. Specific advantages/features : High root yield coupled with high vasacine content (2.46%), suitable for extractives. Duration - 18 months
9. Key characters for identification : Medium tall plants with long and broad leaves. High proportion of leaves and preferred for leaf crop
10. Productivity : 39.78 t whole plant/ha (Fresh) 12.37 t whole plant /ha (Dry)
11. Area of adaptation : Suitable for Central Zone of Kerala.
12. Tips on cultivation :
13. Scientists responsible for developing the variety : Alice Kurien
Augustin A, Nybe E. V, Mini Raj N., Asha Sankar M.

1. Crop : Atalodakam
2. Variety : Vasika
3. Method of breeding : Clonal selection
4. Source/parent/ pedigree : Local from Kozhikode
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Plantation Crops and Spices
College of Horticulture, Veilanikkara
7. Registration /Notifications :
8. Specific advantages/features : High root yield coupled with high vasacine content (2.55%), suitable for extractives. Duration - 18 months
9. Key characters for identification : Medium tall plants with long and narrow leaves. High proportion of roots and preferred for root crop
10. Productivity : 34.72 t whole plant/ha (Fresh) 11.25 t whole plant /ha (Dry)
11. Area of adaptation : Suitable for Central zone of Kerala.
12. Tips on cultivation :
13. Scientists responsible for developing the variety : Alice Kurien
Augustin A, Nybe E. V, Mini Raj N., Asha Sankar M.

1. Crop	:	Adapathiyam (<i>Holostemma ada-kodien</i> Schult)
2. Variety	:	Jeeva
3. Method of breeding	:	Clonal selection
4. Source/parent/ pedigree	:	Collection from Ernakulam
5. Year of release and authority	:	2006- 23 rd Kerala State Seed Sub Committee meeting.
6. Evolved at	:	Dept of Plantation Crops and Spices College of Horticulture, Vellanikkara
7. Registration /Notifications	:	
8. Specific advantages/features	:	High root yield coupled with high soluble sugar content (8.33%), highly suitable for indigenous medicine. Duration-18 months
9. Key characters for identification	:	Purple cordate plant type with long internodes and sweet thick roots
10. Productivity	:	4.51t fresh roots/ha; 5.40 t fresh roots/ha
11. Area of adaptation	:	Suitable Central zones of Kerala.
12. Tips on cultivation	:	
13. Scientists responsible for developing the variety	:	Alice Kurien Augustin.A, Nybe E. V, Mini Raj.N. Asha,Sankar M.

1. Crop	:	Chethikoduveli (<i>Plumbago rosea</i> L.)
2. Variety	:	Mridhula
3. Method of breeding	:	Clonal selection
4. Source/parent/ pedigree	:	Local from Mooppentheruvu, Thrissur district
5. Year of release and authority	:	2006- 23 rd Kerala State Seed Sub Committee meeting.
6. Evolved at	:	Dept of Plantation Crops and Spices College of Horticulture, Vellanikkara
7. Registration /Notifications	:	
8. Specific advantages/features	:	High root yield, can be used without curing in lime for indigenous medicine preparation due to low content of plumbagin (0.22%). Duration - 18 months
9. Key characters for identification	:	Medium tall plants with small leaves and more number of lengthy narrow roots
10. Productivity	:	9.93 t raw roots/ha (Average) 2t raw roots/ha (Potential)
11. Area of adaptation	:	Suitable Central zone of Kerala.
12. Tips on cultivation	:	
13. Scientists responsible for developing the variety	:	Alice Kurien Augustin A, Nybe E. V, Mini Raj.N., Asha.Sankar M.

1. Crop : Chethikoduveli
2. Variety : Agni
3. Method of breeding : Clonal selection
4. Source/parent/ pedigree : Local from Kachithodu, Malappuram district
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Plantation Crops and Spices
College of Horticulture, Vellanikkara
7. Registration /Notifications :
8. Specific advantages/features : High root yield coupled with high plumbagin content (0.80%), suitable for extractives. Duration - 18 months
9. Key characters for identification : Robust tall plants with long broad leaves and thick roots
10. Productivity : 8.60t raw roots/ha (Average)
10.47t raw roots/ha (Potential)
11. Area of adaptation : Suitable for Central Zone of Kerala.
12. Tips on cultivation :
13. Scientists responsible for developing the variety : Alice Kurien
Augustin A, Nybe E. V., Mini Raj N, Asha Sankar M.

Ornamentals and Foliage Plants

- | | | |
|---|---|--|
| 1. Crop | : | Orchid (<i>Dendrobium</i>) |
| 2. Variety | : | Deep blush |
| 3. Method of breeding | : | Inter specific hybridization followed by selection |
| 4. Source/parent/ pedigree | : | D. Nagoya Pink x D. [Candy Stripe x Tomie Drake] |
| 5. Year of release and authority | : | 2006- 23 rd Kerala State Seed Sub Committee meeting. |
| 6. Evolved at | : | Dept of Plant Breeding & Genetics,
College of Agriculture, Vellayani |
| 7. Registration /Notifications | : | |
| 8. Specific advantages/features | : | Exhibits novelty and distinctiveness in floral characters and uniformity in inflorescence characters |
| 9. Key characters for identification | : | Long, arching inflorescence with 9-10 flowers. Flowers are large, thick and glossy, perfectly shaped with rounded sepals and petals, magenta coloured, double shaded and striped with full appearance. Labellum- deeper shade of magenta. Petals very broad, nearly overlapping sepals |
| 10. Productivity | : | 9-10 flowers/inflorescence |
| 11. Area of adaptation | : | Throughout Kerala in semi-controlled environment |
| 12. Tips on cultivation | : | Provide good drainage, 50% shade with good aeration, 50-75% humidity, water enough to keep the potting medium moist |
| 13. Scientists responsible for developing the variety | : | Lekha Rani C.
Mercy S. T, Rajmohan, Chandramony D. |
-
- | | | |
|---|---|--|
| 1. Crop | : | Orchid (<i>Dendrobium</i>) |
| 2. Variety | : | Lemon glow |
| 3. Method of breeding | : | Inter specific hybridization followed by selection |
| 4. Source/parent/ pedigree | : | D. Chiangmai Pink X D. [Candy Stripe X Tomie Drake] |
| 5. Year of release and authority | : | 2006- 23 rd Kerala State Seed Sub Committee meeting. |
| 6. Evolved at | : | Dept of Plant Breeding & Genetics,
College of Agriculture, Vellayani |
| 7. Registration /Notifications | : | |
| 8. Specific advantages/features | : | Variety exhibits novelty and distinctiveness in floral characters and uniformity in inflorescence characters |
| 9. Key characters for identification | : | Long, arching inflorescence with 10-12 flowers. Flowers medium large and flat with a squarish appearance, moderately thick and glossy, light pink towards the outer side and greenish white towards the center with dark pink stripes. |
| 10. Productivity | : | 10-12 flowers/inflorescence |
| 11. Area of adaptation | : | Throughout Kerala in semi-controlled environment. |
| 12. Tips on cultivation | : | Provide good drainage, 50% shade with good aeration, 50-75% humidity, water enough to keep the potting medium moist |
| 13. Scientists responsible for developing the variety | : | Lekha Rani C.
Mercy S. T, Rajmohan, Chandramony D. |

1. **Crop** : **Orchid (*Dendrobium*)**
2. **Variety** : **Velvet Soft**
3. **Method of breeding** : **Inter specific hybridization followed by selection**
4. **Source/parent/ pedigree** : **D. Rungnapa x D. [Candy Stripe xTomie Drake]**
5. **Year of release and authority** : **2006- 23rd Kerala State Seed Sub Committee meeting.**
6. **Evolved at** : **Dept of Plant Breeding & Genetics,
College of Agriculture, Vellayani**
7. **Registration /Notifications** :
8. **Specific advantages/features** : **Exhibits novelty and distinctiveness in floral characters and uniformity in inflorescence characters**
9. **Key characters for identification** : **Long, slightly arching inflorescence with 10-12 flowers. Flowers large, perfectly shaped with full, broad and rounded sepals and petals, very thick and glossy, deep purplish magenta with dark stripes. White operculum, deep velvety magenta labellum**
10. **Productivity** : **8-10 flowers/inflorescence**
11. **Area of adaptation** : **Throughout Kerala in semi-controlled environment.**
12. **Tips on cultivation** : **Provide good drainage, 50% shade with good aeration, 50-75% humidity, water enough to keep the potting medium moist**
13. **Scientists responsible for developing the variety** : **Lekha Rani C.
Mercy S. T, Rajmohan, Chandramony D.**

1. Crop : Orchid (*Dendrobium*)
2. Variety : Velvet Soft
3. Method of breeding : Inter specific hybridization followed by selection
4. Source/parent/ pedigree : D. Rungnapa x D. [Candy Stripe xTomie Drake]
5. Year of release and authority : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. Evolved at : Dept of Plant Breeding & Genetics,
College of Agriculture, Vellayani
7. Registration /Notifications :
8. Specific advantages/features : Exhibits novelty and distinctiveness in floral characters and uniformity in inflorescence characters
9. Key characters for identification : Long, slightly arching inflorescence with 10-12 flowers. Flowers large, perfectly shaped with full, broad and rounded sepals and petals, very thick and glossy, deep purplish magenta with dark stripes. White operculum, deep velvety magenta labellum
10. Productivity : 8-10 flowers/inflorescence
11. Area of adaptation : Throughout Kerala in semi-controlled environment.
12. Tips on cultivation : Provide good drainage, 50% shade with good aeration, 50-75% humidity, water enough to keep the potting medium moist
13. Scientists responsible for developing the variety : Lekha Rani C.
Mercy S. T, Rajmohan, Chandramony D.

Forage Crops

1. Crop : Guinea grass (*Panicum maximum*)
2. Variety : Haritha
3. Method of breeding : Mutation
4. Source / parent / pedigree : FR 600
5. Year of release and authority : 1990 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : Suitable for partial shade; tolerant to leaf spot and
sheath blight and tolerant to summer drought
9. Key characters for identification : Shy flowering, semi perennial variety with glabrous
leaves.
Height – 176 cm
10. Productivity : 1.74 t / ha / cutting
11. Area of adaptation : Coastal sandy tracts of Kerala
12. Tips on cultivation : Cultivated through out the year. Propagated by slips.
Apply FYM-10 t / ha; NPK-200:50:50 kg/ha
13. Scientists responsible for
developing the variety : Gopimony R,
Gopinathan Nair V.

1. Crop : Guinea grass
2. Variety : Marathakam
3. Method of breeding : Mutation
4. Source / parent / pedigree : FR 600
5. Year of release and authority : 1993 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Breeding and Genetics,
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / feature : High fodder yield and better fodder quality. Tolerant
to partial shade.
9. Key characters for identification : Semi-perennial type, height – 180 cm, leaves hairy and
green, freely flowering
10. Productivity : 9.05 tons / ha / cutting
11. Area of adaptation : Southern districts of Kerala
12. Tips on cultivation : Cultivated through out the year. Propagated by slips.
Apply FYM-10 t / ha NPK-200:50:50 kg/ha
13. Scientists responsible for
developing the variety : Sreekumar S.G.,
Gopimony R., Dr. V. Gopinathan Nair,
Dr. N. Mohanakumaran

1. Crop	:	Guinea grass
2. Variety	:	Harithasree
3. Method of breeding	:	Clonal selection
4. Source/parent/ pedigree	:	JHGG-96-3
5. Year of release and authority	:	2006- 23 rd Kerala State Seed Subcommittee meeting.
6. Evolved at	:	Dept of Plant Breeding & Genetics, College of Agriculture, Vellayani
7. Registration /Notifications	:	
8. Specific advantages/features	:	High fodder yield with 8% crude protein and 28% crude fibre.
9. Key characters for identification	:	High tillering, dark green leaves with smooth lower and rough upper surface
10. Productivity	:	66 t of green fodder/ha
11. Area of adaptation	:	Southern districts of Kerala
12. Tips on cultivation	:	First cut can be taken at 70 days after planting/sowing and subsequent cuts at 45 days interval.
13. Scientists responsible for developing the variety	:	Suma Bai D. I. Sreekumar S. G, Chandramony D. Lekha Rani C, Mareen Abraham

1. Crop	:	Bajra-napier hybrid (<i>Pennisetum glaucum</i> x <i>Pennisetum purpureum</i>)
2. Variety	:	Supriya
3. Method of breeding	:	Inter specific hybridization and clonal selection
4. Source/parent/ pedigree	:	TNSC-4X FD-471
5. Year of release and authority	:	2006- 23 rd Kerala State Seed Sub Committee meeting.
6. Evolved at	:	Dept of Plant Breeding & Genetics, College of Agriculture, Vellayani
7. Registration /Notifications	:	
8. Specific advantages/features	:	High fodder yield with 9% crude protein and 26% crude fibre.
9. Key characters for identification	:	High tillering, pale green leaf sheath, small hairs on both dorsal and ventral surface of leaf lamina
10. Productivity	:	272.7 t of green fodder/ha
11. Area of adaptation	:	Central zones of Kerala
12. Tips on cultivation	:	First cut can be taken at 70 days after planting and subsequent cuts at 45 days interval
13. Scientists responsible for developing the variety	:	Suma Bai D. I. Sreekumar S. G, Chandramony D.

1. **Crop** : Bajra-Napier Hybrid
2. **Variety** : **Suguna**
3. **Method of breeding** : Inter specific hybridization and clonal selection
4. **Source/parent/ pedigree** : Composite-9 x FD-431
5. **Year of release and authority** : 2006- 23rd Kerala State Seed Sub Committee meeting.
6. **Evolved at** : Dept of Plant Breeding & Genetics,
College of Agriculture, Vellayani
7. **Registration /Notifications** :
8. **Specific advantages/features** : High fodder yield with 9.4% crude protein and 24%
crude fibre
9. **Key characters for identification** : Profuse tillering, long and broad leaf lamina, pale green
leaf sheath with purplish pigmentation
10. **Productivity** : 283 t of green fodder/ha
11. **Area of adaptation** : Southern districts of Kerala
12. **Tips on cultivation** : First cut can be taken at 70 days after planting and
subsequent cuts at 45 days interval
13. **Scientists responsible for
developing the variety** : Suma Bai D. I.
Sreekumar S. G, Chandramony D.

Mushroom

1. Crop : Oyster Mushroom (*Pleurotus* spp.)
2. Variety : Ananthan
3. Method of breeding : Interstock mating of monokaryon germings between the wild and mutant under *in vitro* conditions, and selection
4. Source / parent / pedigree : Natural flora
5. Year of release and authority : 1996 - Kerala State Seed Sub Committee meeting
6. Evolved at : Department of Plant Pathology
College of Agriculture, Vellayani
7. Registration / notification details :
8. Specific advantages / features : High yielding, pest / disease resistant, short duration hybrid tolerant to *Trichoderma* infection, stress tolerant, tolerant to phorids and beetles. Good cooking quality and consumer acceptability
9. Key characters for identification : Attractive variety with milky white sporocarp
10. Productivity : 806 g / kg bed (81 % BE)
11. Area of adaptation : Throughout Kerala
12. Tips on cultivation : Can be grown with paddy, wheat or sorghum straw; average days from spawning to harvest is 18 days
13. Scientists responsible for developing the variety : Balakrishnan B. ,
Chandrasekharan Nair M.

Annexure
Rice varieties released prior to 1972

- | | |
|---|--|
| 1. Crop | : Rice |
| 2. Variety | : PTB 1 |
| 3. Method of breeding | : Pureline selection |
| 4. Source / parent / pedigree | : Local variety, Aryan |
| 5. Year of release and authority | : 1934 |
| 6. Evolved at | : RARS, Pattambi |
| 7. Registration / notification details | : IC. No.263947 |
| 8. Specific advantages / features | : Long duration (140-145 days), photoinsensitive variety moderately resistant to blast. Hulling % - 76.7 |
| 9. Key characters for identification | : Tall (165 cm), low tillering plants with long bold grains and red kernel. |
| 10. Productivity | : 3 t/ha |
| 11. Area of adaptation | : First crop season for deep soils of Kerala. |
| 12. Tips on cultivation | : Apply Organic manure - 5t/ha; NPK - 40:20:20 kg/ha |
| 13. Scientists responsible for developing the variety | : Crop improvement division of RARS, Pattambi |
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- | | |
|---|--|
| 1. Crop | : Rice |
| 2. Variety | : PTB 2 |
| 3. Method of breeding | : Pureline selection |
| 4. Source / parent / pedigree | : Local variety, Ponnaryan |
| 5. Year of release and authority | : 1934 |
| 6. Evolved at | : RARS, Pattambi |
| 7. Registration / notification details | : IC. No.263948 |
| 8. Specific advantages / features | : Medium duration (130-135 days), photoinsensitive variety moderately resistant to blast. Hulling % - 77.1 |
| 9. Key characters for identification | : Tall (160 cm), low tillering plants with long bold grains and red kernel. |
| 10. Productivity | : 2.5 t/ha |
| 11. Area of adaptation | : First and second crop seasons of Kerala. |
| 12. Tips on cultivation | : Apply Organic manure - 5t/ha; NPK - 40:20:20 kg/ha |
| 13. Scientists responsible for developing the variety | : Crop improvement division of RARS, Pattambi |

1. Crop : Rice
 2. Variety : PTB 3
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local variety, Eravapandy
 5. Year of release and authority : 1934
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No.264028
 8. Specific advantages / features : Medium duration (125-130 days), photosensitive variety moderately resistant to drought. Hulling % - 76.7
 9. Key characters for identification : Tall (140 cm), medium tillering plants with short bold grains and red kernel.
 10. Productivity : 2 t/ha
 11. Area of adaptation : Second crop season of Palakkad District.
 12. Tips on cultivation : Apply Organic manure - 5t/ha; NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : PTB 4
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Vellari
5. Year of release and authority : 1934
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No.264029
8. Specific advantages / features : Medium duration (130-140 days), photosensitive variety moderately resistant to waterlogging. Hulling % - 78.7
9. Key characters for identification : Semi-tall (110 cm), low tillering plants with long bold grains and red kernel.
10. Productivity : 2.4 t/ha
11. Area of adaptation : Second crop season for deep soils of Kerala with assured water supply.
12. Tips on cultivation : Apply Organic manure - 5t/ha; NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : PTB 17
 3. Source / parent / pedigree : Pureline selection
 4. Method of breeding : Local variety, Jedduhalliga
 5. Year of release and authority : 1944
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 263951
 8. Specific advantages / features : Long duration (140-145 days), photoinensitive variety moderately resistant to blast. Hulling % - 72.5
 9. Key characters for identification : Tall (157 cm), low tillering plants with short bold grains and red kernel.
 10. Productivity : 2.5 t/ha
 11. Area of adaptation : First crop season of South Karnataka
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : PTB 18
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Eravapandy
5. Year of release and authority : R1944
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 264034
8. Specific advantages / features : Medium duration (125-130 days), photosensitive variety moderately resistant to blast. Hulling % - 76.8
9. Key characters for identification : Semi tall (125 cm), low tillering plants with short bold grains and red kernel.
10. Productivity : 2.5 t/ha
11. Area of adaptation : Second crop regions of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : PTB 19
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local variety, Athikkiraya
 5. Year of release and authority : 1944
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 264035
 8. Specific advantages / features : Long duration (140-145 days), photosensitive variety resistant to BPH. Hulling % - 75.2
 9. Key characters for identification : Tall (148 cm), low tillering plants with medium bold grains and red kernel.
 10. Productivity : 2.5 t/ha
 11. Area of adaptation : Second crop regions of Kerala.
 12. Tips on cultivation : Apply - Organic manure - 5t/ha
NPK 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : PTB 20
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Vadakkan Chitteni
5. Year of release and authority : 1944
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 264036
8. Specific advantages / features : Medium duration (125-130 days), photosensitive variety moderately resistant to sheath blight and gallfly. Hulling % - 79.3
9. Key characters for identification : Semi tall (120 cm), low tillering plants with medium bold grains and red kernel.
10. Productivity : 2.5 t/ha
11. Area of adaptation : Second crop regions of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha,
NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : **PTB 21**
 3. Source / parent / pedigree : Pureline selection
 4. Method of breeding : Local variety, Thekkan
 5. Year of release and authority : 1945
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 264037
 8. Specific advantages / features : Medium duration (125-130 days), photosensitive variety resistant to three biotypes of BPH, green leaf hopper, stem borer and gall midge. Hulling % - 78.5
 9. Key characters for identification : Tall (135 cm), low tillering plants with long bold grains and red kernel.
 10. Productivity : 2.5 t/ha
 11. Area of adaptation : Second crop regions of Kerala.
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : **PTB 22**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Velutha vattan
5. Year of release and authority : 1948
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 263756
8. Specific advantages / features : Medium duration (115-120 days), photoinsensitive variety moderately resistant to blast. Hulling % - 78.9
9. Key characters for identification : Tall (134 cm), low tillering plants with long bold grains and red kernel.
10. Productivity : 2.5 t/ha
11. Area of adaptation : First crop season for dry sowing sandy areas of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : PTB 23
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local variety, Cheriya Aryan
 5. Year of release and authority : 1948
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 263599
 8. Specific advantages / features : Short duration (105-110 days), photoinensitive variety moderately resistant to blast.Hulling % - 79.7
 9. Key characters for identification : Tall (128 cm), low tillering plants with long bold grains and red kernel.
 10. Productivity : 2.5 t/ha
 11. Area of adaptation : First crop season for sandy soils of Kerala.
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : PTB 24
3. Source / parent / pedigree : Pureline selection
4. Method of breeding : Local variety, Chuvanna vattan
5. Year of release and authority : 1948
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 263757
8. Specific advantages / features : Medium duration (115-120 days), photoinensitive variety moderately resistant to blast.Hulling % - 79.4
9. Key characters for identification : Tall (148 cm), low tillering plants with medium bold grains and red kernel.
10. Productivity : 2.2 t/ha
11. Area of adaptation : Broadcasting in sandy soils of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : **PTB 25**
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local variety, Thonnuran
 5. Year of release and authority : 1948
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 263758
 8. Specific advantages / features : Medium duration (115-120 days), photoinsensitive variety moderately resistant to blast. Hulling % - 80.9
 9. Key characters for identification : Tall (148 cm), low tillering plants with medium bold grains and red kernel.
 10. Productivity : 2 t/ha
 11. Area of adaptation : Broadcasting in sandy soils of Kerala.
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : **PTB 26**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Chenkayama
5. Year of release and authority : 1948
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 263759
8. Specific advantages / features : Medium duration (120-125 days), photoinsensitive variety moderately resistant to blast. Hulling % - 78.1
9. Key characters for identification : Tall (134 cm), low tillering plants with short bold grains and red kernel.
10. Productivity : 2.5 t/ha
11. Area of adaptation : Suited for first crop season in deep soils of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
2. Variety : PTB 27
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Kodiyan
5. Year of release and authority : 1948
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 264038
8. Specific advantages / features : Medium duration (125-130 days), photosensitive variety moderately resistant to blast and sheath blight.
Hulling % - 78.1
9. Key characters for identification : Tall (145 cm), low tillering plants with medium bold grains and red kernel.
10. Productivity : 2.5 t/ha
11. Area of adaptation : Suited for second crop regions of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
2. Variety : PTB 28
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Kattamodan
5. Year of release and authority : 1950
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 263760
8. Specific advantages / features : Medium duration (115-120 days), photoinsensitive variety moderately resistant to blast and drought.
Hulling % - 77.5
9. Key characters for identification : Tall (128 cm), low tillering plants with short bold grains and red kernel.
10. Productivity : 2.7 t/ha
11. Area of adaptation : Suited for first crop season in modan soils of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : **PTB 29**
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local variety, Karutha modan
 5. Year of release and authority : 1950
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 263761
 8. Specific advantages / features : Short duration (105-110 days), photoinensitive variety moderately resistant to blast and drought. Hulling % - 78.6
 9. Key characters for identification : Tall (138 cm), low tillering plants with long bold grains and red kernel.
 10. Productivity : 2.5 t/ha
 11. Area of adaptation : Suited for first crop season in modan soils of Kerala.
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : **PTB 30**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Chuvanna modan
5. Year of release and authority : 1950
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 263600
8. Specific advantages / features : Short duration (105-110 days), photoinensitive variety moderately resistant to blast and drought. Hulling % - 76.5
9. Key characters for identification : Semi tall (120 cm), low tillering plants with long bold grains and red kernel.
10. Productivity : 2.5 t/ha
11. Area of adaptation : Suited for first crop season in modan soils of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : **PTB 31**
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local variety, Elappappoochampan
 5. Year of release and authority : 1952
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 263601
 8. Specific advantages / features : Short duration (105-110 days), photoinsensitive variety. Hulling % - 79.5
 9. Key characters for identification : Tall (148 cm), low tillering plants with medium bold grains and red kernel.
 10. Productivity : 2.0 t/ha
 11. Area of adaptation : Suited for first crop season in laterite soils of Kerala.
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : **PTB 32**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Aruvakakri
5. Year of release and authority : 1952
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 263688
8. Specific advantages / features : Medium duration (120-125 days), photoinsensitive variety moderately resistant to sheath blight. Hulling % - 75.7
9. Key characters for identification : Tall (143 cm), low tillering plants with short bold grains and red kernel.
10. Productivity : 2.3 t/ha
11. Area of adaptation : Suited for first crop season of Kerala.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : **PTB 33**
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local variety, Arikkirai
 5. Year of release and authority : 1952
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 263649
 8. Specific advantages / features : Medium duration (125-130 days), photosensitive variety resistant to BPH, thrips, leaf roller and sheath blight. Hulling % - 77.7
 9. Key characters for identification : Semi tali (120 cm), low tillering plants with short bold grains and red kernel.
 10. Productivity : 3 t/ha
 11. Area of adaptation : Suited for second crop regions of Kerala.
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : **PTB 34**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Valiya champan
5. Year of release and authority : 1960
6. Evolved at : RARS, Pattambi
7. Registration / notification details :
8. Specific advantages / features : Short duration (105-110 days), photoinsensitive variety. Hulling % - 79.3
9. Key characters for identification : Tall (156 cm), low tillering plants with short bold grains and red kernel.
10. Productivity : 2.8 t/ha
11. Area of adaptation : Suited for direct seeding during first crop season of Kerala.
12. Tips on cultivation : Apply Organic manure - 5 t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : **Annapoorna (PTB 35)**
 3. Method of breeding : Recombination breeding
 4. Source / parent / pedigree : T(N) 1 x PTB 10
 5. Year of release and authority : 1966
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : Notified as per S.O.No. 5505 dt. 20-12-71 IC. No 263549
 8. Specific advantages / features : Short duration (95-100 days), photoinensitive variety with adaptability to all the seasons and a wide range of cropping situations. Susceptible to BPH, blast and sheath blight.
 9. Key characters for identification : Dwarf (75-85 cm), non-lodging plants with compact panicles, medium bold grains and red kernel.
 10. Productivity : 5 t/ha
 11. Area of adaptation : All well drained soils of Kerala except saline and acidic soils
 12. Tips on cultivation : Suited for all the three seasons. Apply Organic manure - 5t/ha NPK - 70:35:35 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : **Rohini (PTB 36)**
3. Method of breeding : Recombination breeding
4. Source / parent / pedigree : PTB 10 x IR 8
5. Year of release and authority : 1971
6. Evolved at : RARS, Pattambi
7. Registration / notification details : Notified as per S.O.No. 361(E) dt. 30-6-73 IC. No 263550
8. Specific advantages / features : Short duration (85-110 days), photoinensitive variety with adaptability to a wide range of cropping situations. Moderately resistant to blast and blight.
9. Key characters for identification : Dwarf (76-95 cm), non-lodging plants with compact panicles, medium bold grains and white kernel.
10. Productivity : 5 t/ha
11. Area of adaptation : Throughout Kerala except saline and acidic soils
12. Tips on cultivation : Suited to *Virippu* and *Puncha* seasons. Apply Organic manure - 5t/ha, NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
 2. Variety : Aswathy (PTB 37)
 3. Method of breeding : Recombination breeding
 4. Source / parent / pedigree : PTB 10 x Dee-Geo-Woo-Gen
 5. Year of release and authority : 1971
 6. Evolved at : RARS, Pattambi
 7. Registration / notification details : IC. No 263708,
Notified as per S.O.No. 361(E) dt. 30-6-73
 8. Specific advantages / features : Medium duration (120-125 days), photoinsensitive variety suitable for dry sowing in the first crop season. Moderately resistant to blast and Helminthosporium blight.
 9. Key characters for identification : Dwarf (80-105 cm), non-lodging plants with compact panicles, medium bold grains and white kernel.
 10. Productivity : 5 t/ha
 11. Area of adaptation : Throughout Kerala except saline and acidic soils
 12. Tips on cultivation : Suited to *Virippu* and *Mundakan* seasons. Apply Organic manure - 5t/ha, NPK - 90:45:45 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi
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1. Crop : Rice
2. Variety : Triveni (PTB 38)
3. Method of breeding : Recombination breeding
4. Source / parent / pedigree : Annapoorna x PTB 15
5. Year of release and authority : 1971
6. Evolved at : RARS, Pattambi
7. Registration / notification details : IC. No 263551 Notified as per S.O.No. 361(E) dt. 30-6-73, 786(F) dt.2-2-76 & 19(E) dt.14-1-82
8. Specific advantages / features : Short duration (100-105 days), photoinsensitive variety moderately resistant to BPH. Susceptible to blast and sheath blight.
9. Key characters for identification : Dwarf (95-100 cm), non-lodging plants with compact panicles, medium bold grains and white kernel.
10. Productivity : 5 - 5.5 t/ha
11. Area of adaptation : Through out Kerala except saline and acidic soils
12. Tips on cultivation : Suited for all the three seasons Apply Organic manure - 5t/ha, NPK - 70:35:35 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RARS, Pattambi

1. Crop : Rice
2. Variety : **MO 1**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Chettivirippu
5. Year of release and authority : 1945
6. Evolved at : RRS, Moncompu
7. Registration / notification details :
8. Specific advantages / features : Photoinsensitive, short duration (85-110 days) variety resistant to acidity and salinity.
9. Key characters for identification : Tall (145 cm) and medium tillering plants with long bold grains and red kernel.
10. Productivity : 3 t/ha
11. Area of adaptation : Acidic and saline soils of Kuttanad and saline soils of Ernakulam district.
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RRS, Moncompu

1. Crop : Rice
2. Variety : **MO 2**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Kalladachampavu
5. Year of release and authority : 1945
6. Evolved at : RRS, Moncompu
7. Registration / notification details :
8. Specific advantages / features : Photoinsensitive, short duration (85-110 days) variety moderately resistant to major pests and diseases.
9. Key characters for identification : Semi tall (125 cm) and low tillering plants with long bold grains and red kernel.
10. Productivity : 2.5 t/ha
11. Area of adaptation : Kuttanad and kole regions of Kerala
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop improvement division of RRS, Moncompu

1. Crop : Rice
 2. Variety : **MO 3**
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Kunjathikkira
 5. Year of release and authority : 1968
 6. Evolved at : RRS, Moncompu
 7. Registration / notification details :
 8. Specific advantages / features : Photoinsensitive, short duration (85-110 days) variety resistant to acidity and salinity.
 9. Key characters for identification : Dwarf (75 cm) and medium tillering plants with long bold grains and red kernel.
 10. Productivity : 2.5 t/ha
 11. Area of adaptation : Acidic and saline soils of Kerala
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop improvement division of RRS, Moncompu
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1. Crop : Rice
2. Variety : **Vyttila 1**
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Choottupokkali
5. Year of release and authority : 1968
6. Evolved at : RRS, Vyttila
7. Registration / notification details : IC No 263762
8. Specific advantages / features : Photoinsensitive, medium duration (110 to 115 days) variety tolerant to salinity and soil acidity. Escapes flood and water stagnation.
9. Key characters for identification : Tall(145 cm) plants susceptible to lodging and with medium bold grains. Kernel colour red
10. Productivity : 1.5 t/ha
11. Area of adaptation : Pokkali region
12. Tips on cultivation : Suited to Virippu season, Apply NPK - 20:40:0 kg/ha
13. Scientists responsible for developing the variety : Crop Improvement Division of RRS, Vyttila

1. Crop : Rice
2. Variety : Vyttila 2
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local variety, Cheruvirippu
5. Year of release and authority : 1987
6. Evolved at : RRS, Vyttila
7. Registration / notification details : IC No - 263763, Notified as per S.O. No.19(E) dt.14-1-82
8. Specific advantages / features : Photoinsensitive, medium duration (125 to 130 days) variety tolerant to salinity, soil acidity and to major pests and diseases. Withstands flood and fluctuating water depths.
9. Key characters for identification : Tall(150 cm) plants susceptible to lodging and with long bold grains. Kernel colour red
10. Productivity : 1.8 t/ha
11. Area of adaptation : Pokkali region
12. Tips on cultivation : Suited to Virippu season, Apply NPK - 20:40:0 kg/ha
13. Scientists responsible for developing the variety : George T.U.
Tomy P.J.

1. Crop : Rice
2. Variety : UR 19
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local collection, Champavu
5. Year of release and authority : 1951
6. Evolved at : Rice Research Station, Kayamkulam
7. Registration / notification details :
8. Specific advantages / features : Photosensitive, short duration (85-110 days) variety moderately resistant to blast and blight. Hulling%-75.1
9. Key characters for identification : Dwarf (75 cm), medium tillering plants with medium bold grains and red kernel.
10. Productivity : 5 t/ha
11. Area of adaptation : Throughout Kerala except acidic and saline soils
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop Improvement Division, ORARS, Kayamkulam

1. Crop : Rice
 2. Variety : UR 110
 3. Method of breeding : Pureline selection
 4. Source / parent / pedigree : Local collection, Drumundakan Local
 5. Year of release and authority : 1952
 6. Evolved at : Rice Research Station, Kayamkulam
 7. Registration / notification details :
 8. Specific advantages / features : Photosensitive, long duration (165-180 days) variety diseases. Hulling% - 75.1
 9. Key characters for identification : Tall (180 cm), medium tillering plants with long bold grains and red kernel.
 10. Productivity : 2.5-3 t/ha
 11. Area of adaptation : Suited for Rabi crop for the Drumundakan areas with ill drained soils.
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop Improvement Division of ORARS, Kayamkulam
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1. Crop : Rice
2. Variety : Kottarakkara I
3. Method of breeding : Pureline selection
4. Source / parent / pedigree : Local collection, Kutticheradi
5. Year of release and authority : 1970 Kerala State Seed Sub Committee meeting
6. Evolved at : Rice Research Sub Station, Kottarakkara
7. Registration / notification details :
8. Specific advantages / features : Highly photosensitive, long duration (170-190 days) variety with high straw yield. Tolerant to major pests and diseases and also to waterlogging.
9. Key characters for identification : Tall (162 cm) plants susceptible to lodging. Open panicles with medium bold grains and red kernel.
10. Productivity : 2-4 t/ha
11. Area of adaptation : Eastern lateritic regions of southern districts of Kerala
12. Tips on cultivation : Suited to mundakan season in double crop wetlands characterized by waterlogged deep soils. Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
13. Scientists responsible for developing the variety : Crop Improvement Division of Rice Research Sub Station, Kottarakkara

808358

1. Crop : Rice
 2. Variety : **WND 1**
 3. Method of breeding : Selection
 4. Source / parent / pedigree : Local variety, Palthondi
 5. Year of release and authority : 1953
 6. Evolved at : RARS, Ambalavayal
 7. Registration / notification details :
 8. Specific advantages / features : Photo sensitive, long duration (180-200 days) variety tolerant to high altitude conditions. Grains have dormancy.
 9. Key characters for identification : Tall (130 cm) variety with dull white kernel colour
 10. Productivity : 3.3 t/ha
 11. Area of adaptation : High altitude areas like Wayanad
 12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20 kg/ha
 13. Scientists responsible for developing the variety : Crop Improvement Division of RARS, Ambalavayal
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1. Crop : Rice
2. Variety : **WND 2**
3. Method of breeding : Pedigree selection
4. Source / parent / pedigree : Local variety, Marathondy
5. Year of release and authority : 1953
6. Evolved at : RARS, Ambalavayal
7. Registration / notification details :
8. Specific advantages / features : Photosensitive, long duration (180-200 days) variety tolerant to high altitude conditions
9. Key characters for identification : Tall (142 cm), lodging variety with semi compact panicle, long bold grains and red kernel colour
10. Productivity : 4 t/ha
11. Area of adaptation : High altitude areas like Wayanad
12. Tips on cultivation : Apply Organic manure - 5t/ha, NPK - 40:20:20kg/ha
13. Scientists responsible for developing the variety : Crop Improvement Division of RARS, Ambalavayal

Rice Varieties



Jyothi



Aiswarya



Kanchana



Dhanu



Ezhome - 1



Onam



Prathyasha



Uma



Thulam



Vaisakh



VTL-6



VTL-8

Coconut Varieties



Anandhaganga



Keraganga



Kerasagara



Kerasree



Kerasowbhagya



Lakshaganga

Cashew Varieties



Raghav



Damodar



Dhana



Sree

Sugarcane



Madhurima



Madhuri

Cocoa Varieties



CCRP-1



CCRP-2



CCRP-3



CCRP-7



CCRP-8



CCRP-10

Vegetable Varieties



Chilli - Samruddhi



Chilli - Ujwala



Chilli - Vellayani Athulya



Tomato - Anagha



Tomato - Mukthi



Tomato - Sakthi



Brinjal F₁ Neelima



Brinjal - Haritha



Okra - Anjitha



Okra - Susthira



Okra - Salkeerthi



Cowpea - Vyjayanthi



Cowpea - Lola



Cowpea - Anaswara



Winged bean - Revathy



Amarath - Arun



Bitter gourd - Preethi



Bitter gourd - Priyanka



Snake gourd - Baby



Snake gourd - Kaumudi



Ash gourd - KAU Local



Pumpkin - Ambili



Pumpkin - saras



Oriental pickling melon - Mudicode



Ivy gourd - Sulabha

Spices Varieties



Pepper - Panniyur - 1



Pepper - Panniyur - 5



Cardamom - PV - 1



Cardamom - PV - 2



Turmeric - Sobha



Turmeric - Kanthi



Ginger - Athira



Ginger - Karthika



Cassava - Vellayani Hraswa



Coleus - Sulabha



Banana - BRS 1



Pineapple - Amritha



Pulse cowpea - Hridya



Dual purpose cowpea - Kanakamony



Pulse cowpea - Sreya



Sesamum - Thilarani



Sesamum - Thilathara



Holostema ada-kodien - Jeeva



Kampferia galanga - Kasthuri



Plumbago rosea - Mridhula



Adathoda spp - Ajagandhi



Piper longum - Viswam

808358



Orchid - Lemon glow



Orchid - Master delight



Orchid - Pink cascade



Guinea grass-Harithasree



Napier hybrid-Suguna



Napier hybrid-Supriya