

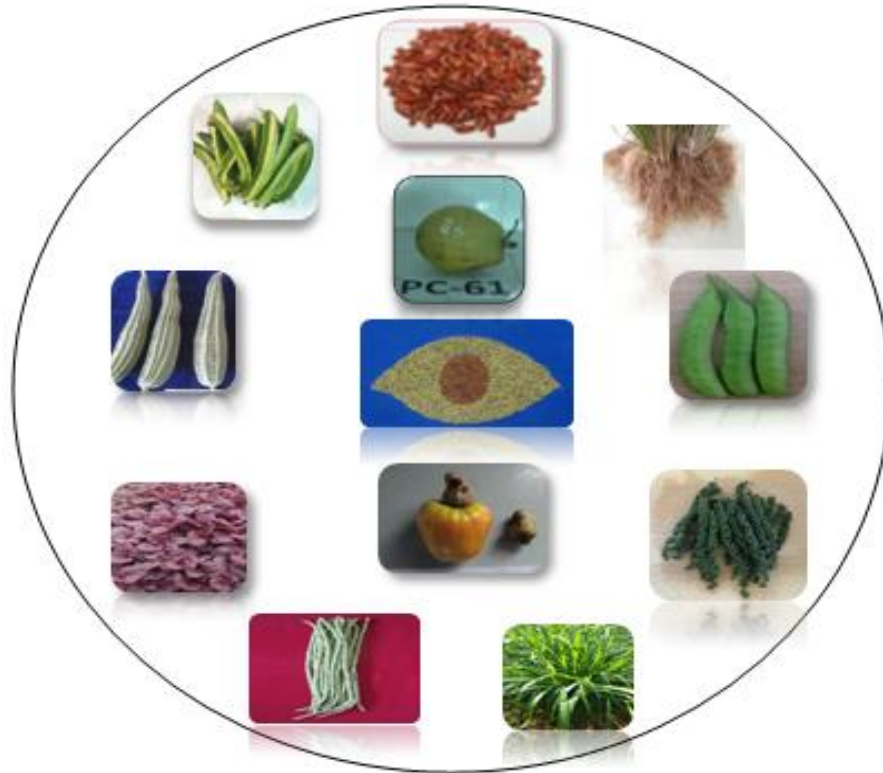
Kerala Agricultural University

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**Department of Agricultural Development & Farmer's Welfare,
Government of Kerala**

Newly Released Crop Varieties

(28th State Seed Sub Committee held on 10/12/2019)



**Directorate of Research
Kerala Agricultural University
K.A.U. P.O. Thrissur 680 656**

Newly released crop varieties from Kerala Agricultural University

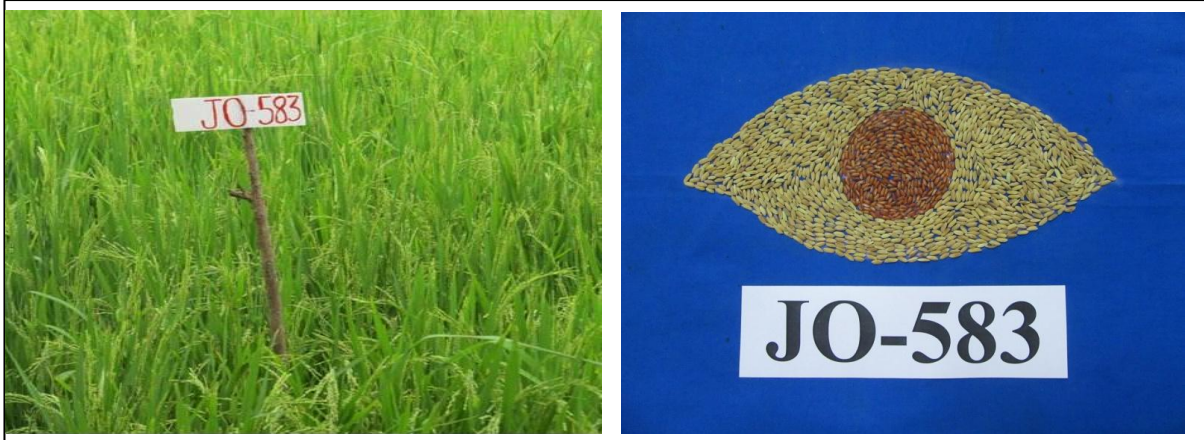
Sl No	Category	Name of Crop	Var. No	Name of Variety
1	Field Crops (2 varieties)	Rice	1	KAU Mithila
2			2	KAU Manu Varna
3	Vegetables (5 varieties)	Ridge Gourd	1	KRH 1
4		Winged Bean	2	KAU Nithya
5		Yard long bean	3	KAU Deepika
6		Amaranthus	4	KAU Vaika
7		Cluster bean	5	KAU Suruchi
8	Plantation crops (2 varieties)	Cashew	1	KAU Nihara
9		Coconut	2	Kerasulabha
10	Spices (1 variety)	Pepper	1	Panniyur 10
11	Medicinal plants (1 variety)	Vetiver	1	Bhoomika
12	Forage crops (1 variety)	Bajra Napier Hybrid	1	Susthira

Rice

RICE (*Oryza sativa* L.)

1. Name of Variety

: **KAU Mithila**



2	Source/ Parent/ pedigree	JO -583 from the cross Jaya x Orkayama
3	Method of breeding	Pedigree method of hybridization & selection, adopting special strategies of organic plant breeding & Participatory plant breeding
4	Institute/ Station responsible for development	Regional Agricultural Research Station, Pilicode, Kasargod
5	Specific features	A high yielding saline and flood tolerant non lodging, photo insensitive, medium duration(125-130days) organic rice variety resistant to sheath blight, leaf folder and gall midge, good grain yield and straw yield.
6	Productivity	Yield 5.2t/ha during Kharif season in saline flooded sea coastal tract of Kaipad
7	Scientists responsible for developing the variety	<ol style="list-style-type: none"> 1. Dr. Vanaja T. 2. Dr. Neema V.P. 3. Dr. Mammooty K.P. 4. Dr. Balakrishnan P. C 5. Dr. Jayaprakash Naik, B. 6. Dr. K.N. Satheesan 7. Dr. P. Raji 8. Dr. K. Karthikeyan

RICE (*Oryza sativa* L.)

1. Name of Variety

: **KAU Manuvarna**



2	Source/ Parent/ pedigree	Jyothy x Swarnaprabha
3	Method of breeding	Hybridization and selection
4	Institute/ Station responsible for development	Agricultural Research Station, Mannuthy Thrissur
5	Specific features	Medium duration (128 – 138 days), non lodging and non shattering, high tolerance to salinity, higher number of productive tillers/ plant, good milling and cooking qualities, tolerance to stem borer, leaf folder, gall midge, high amylose content and brown rice.
6	Productivity	Yield 7.2 t/ha
7	Scientists responsible for developing the variety	1. Dr. C.A. Rosamma 2. Dr. U. Jaikumaran 3. Dr. A. Latha 4. Dr. C.R. Elsy 5. Dr.V.V.Radhakrishnan 6. Dr.K.P.Prameela 7. Dr.M.P.Kanakamony

Vegetables

RIDGE GOURD (*Luffa acutangula* (Roxb.) L)

1. Name of Variety

: **KRH 1**



2	Source/ Parent/ pedigree	KAU-MS-LA 101 x LA 102
3	Method of breeding	Heterosis breeding through 3 line method exploiting cytoplasmic genic male sterility system (CGMS)
4	Institute/ Station responsible for development	College of Horticulture, Vellanikkara, Thrissur
5	Specific features	First hybrid from KAU in Ridge gourd, highly heterotic, high yield, attractive long slender fruits and superior to commercial check variety Arka Sumit
6	Productivity	Yield 7.419 kg/plant.
7	Scientists responsible for developing the variety	<ol style="list-style-type: none"> 1. Dr. T. Pradeepkumar 2. Dr. Salikutty Joseph 3. Mr. Vijeeth C Hegade 4. Mr. Kannan.D.

WINGED BEAN
(*Psophocarpus tetragonolobus* (L.) DC.)

1. Name of Variety : **KAU Nithya**

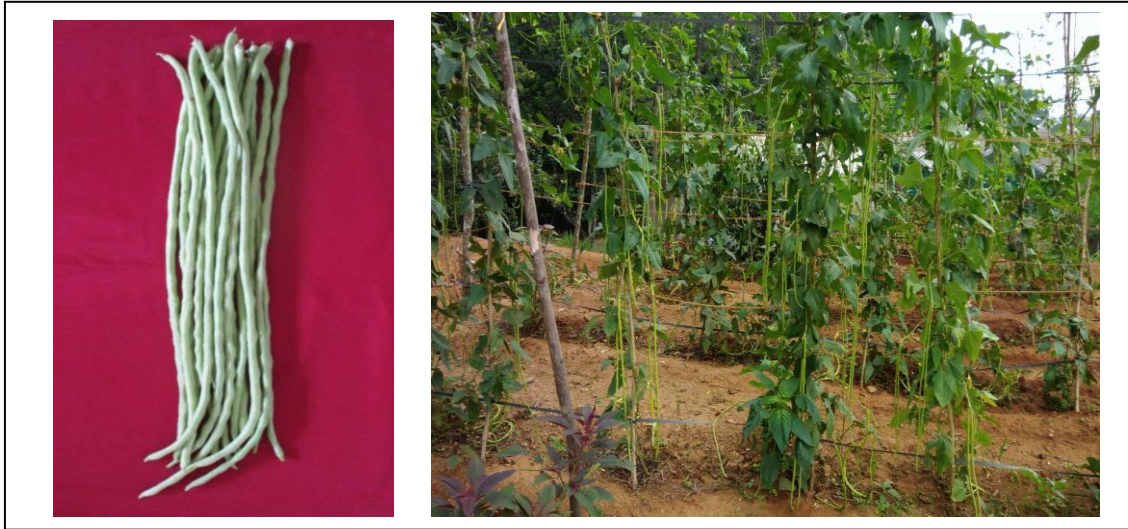


2	Source/ Parent/ pedigree	Local collection from Nemom, Thiruvananthapuram
3	Method of breeding	Selection from local collection from Nemom
4	Institute/ Station responsible for development	College of Agriculture, Vellayani, Thiruvananthapuram
5	Specific features	High yielding variety suitable for cultivation in homesteads, photo insensitive (flowering and fruiting irrespective of photoperiod), long fruiting period and very low incidence of pests and diseases.
6	Productivity	Yield 2676.11 g pod/plant
7	Scientists responsible for developing the variety	<ol style="list-style-type: none"> 1. Dr. I. Sreelathakumary 2. Dr. V.A. Celine 3. Dr. M. Abdul Vahab 4. Dr. L. Rajamony 5. Dr. S. Sarada 6. Dr. M. Rafeekher

YARD LONG BEAN
(*Vigna unguiculata* var. *sesquipedalis* (L.) Verdc.)

1. Name of Variety

: KAU Deepika



2	Source/ Parent/ pedigree	Local collection from Kakkamoola, Thiruvananthapuram
3	Method of breeding	Selection from local collection from Kakkamoola
4	Institute/ Station responsible for development	College of Agriculture, Vellayani, Thiruvananthapuram
5	Specific features	High yielding variety, suitable for homesteads of Kerala, long, green pods, crop duration of 100-120 days, low incidence of pests and diseases and good cooking quality
6	Productivity	Yield 1.45 Kg Pods/plant
7	Scientists responsible for developing the variety	1. Dr. I. Sreelathakumary 2. Dr. V.A. Celine 3. Dr. M. Abdul Vahab 4. Dr. S. Sarada 5. Dr. M. Rafeekher

AMARANTHUS (*Amaranthus viridis* L.)

1. Name of Variety

: **KAU Vaika**



2	Source/ Parent/ pedigree	Local collection from Vellarada, Thiruvananthapuram
3	Method of breeding	Selection from local collection from Vellarada
4	Institute/ Station responsible for development	College of Agriculture, Vellayani, Thiruvananthapuram
5	Specific features	High yielding, late bolting, multi cut variety with red coloured stem and leaves and long vegetative growth period.
6	Productivity	Yield 783.18 g/plant
7	Scientists responsible for developing the variety	1. Dr. I. Sreelathakumary 2. Dr. V.A. Celine 3. Dr. M. Abdul Vahab 4. Dr. S. Sarada 5. Dr. M. Rafeekher

CLUSTER BEAN
(*Cyamopsis tetragonoloba* (L). Taub)

1. Name of Variety

: **KAU Suruchi**



2	Source/ Parent/ pedigree	Local collection from Kovilpatti, Tamil Nadu
3	Method of breeding	Selection from local collection from Kovilpatti
4	Institute/ Station responsible for development	College of Agriculture, Vellayani, Thiruvananthapuram
5	Specific features	Highest yield with pod length of 13.17 cm and pod weight of 5.05 g, good cooking quality, low incidence of pests and diseases
6	Productivity	Yield 392.29 g/plant
7	Scientists responsible for developing the variety	1. Dr. S. Sarada 2. Dr. I. Sreelathakumary 3. Dr. M. Abdul Vahab 4. Dr. V.A. Celine

Plantation crops.....

CASHEW (*Anacardium occidentale L.*)

1. Name of Variety

: **KAU Nihara**



2	Source/ Parent/ pedigree	Selection from local collection Thaliparamba, Kannur
3	Method of breeding	Selection
4	Institute/ Station responsible for development	Regional Agricultural Research Station, Pilicode, Kasargod
5	Specific features	Dwarf and compact cashew variety suited for urban and peri urban households, first dwarf type cashew variety released in India
6	Productivity	Yield 1.25 t/Ha
7	Scientists responsible for developing the variety	1. Dr Meera Manjusha A.V. 2. Dr. B. Jayaprakash Naik 3. Dr. Retheesh P.K. 4. Dr. Suresh P.R. 5. Prof. S. Sukumaran Nair 6. Dr. M.P. Giridharan

COCONUT (*Cocos nucifera* L.)

1. Name of Variety

: **Kerasulabha**



2	Source/ Parent/ pedigree	Philippines Lono (PCE 61)
3	Method of breeding	Selection
4	Institute/ Station responsible for development:	Coconut Mission & Regional Agricultural Research Station, Pilicode, Kasaragod
5	Specific advantage/ feature	High yielding exotic variety suited to Kerala, large bold nuts with thick kernel & weight of copra (218g), suitable to lateritic soil and good management practices, better performance even under unfavorable conditions.
6	Productivity	Yield 88.72 nuts/palm/year
7	Scientists responsible for developing the variety	1. Dr. Sujatha.R 2. Dr. B. Jayaprakash Naik 3. Dr. P.C. Balakrishnan 4. Dr. P.R. Suresh 5. Dr. Santhoshkumar T 6. Dr. K.N. Satheeshan

Spices

BLACK PEPPER (*Piper nigrum* L.)

1. Name of Variety

: **Panniyur 10**



2	Source/ Parent/ pedigree	Panniyur 1 x Cul 54 (OP of cv. Karivally)
3	Method of breeding	Hybridisation and selection
4	Institute/ Station responsible for development	Pepper Research Station, Panniyur, Kannur
5	Specific features	High yielding climate resilient variety, long spikes, bold berries, tolerant to Phytophthora infection, high piperine & oleoresin and high bulk density
6	Productivity	Yield 2.3 Kg/vine
7	Scientists responsible for developing the variety	1. Dr. P.M. Ajith 2. Dr. V.P. Neema 3. Dr. Yamini Varma, C.K.

Medicinal Plants

VETIVER
(*Chrysopogon zizanioides* (L.) Roberty)

1. Name of Variety : **Bhoomika**



2	Source/ Parent/ pedigree	Collection from N. Malabar
3	Method of breeding	Selection
4	Institute/ Station responsible for development	Aromatic and Medicinal Plants Research Station, Odakkali, Ernakulam
5	Specific features	Nonflowering nature, good tillering, extensive fibrous roots, low canopy height, drooping leaves covering soil surface, high root yield and higher oil content in roots compared to ODV-3, better drought tolerance, efficient barrier to check soil, nutrients, organic matter and water losses, hedge plant for soil and water conservation, aromatic crop for root and oil production.
6	Productivity	200kg/100m ² (root yield)
7	Scientists responsible for developing the variety	1. Dr Gracy Mathew 2. Dr Ancy Joseph

Forage crops

BAJRA NAPIER HYBRID
(Pennisetum americanum x Pennisetum purpureum)

1. Name of Variety : **Susthira**



2	Source/ Parent/ pedigree	IP 22267 x FD 462
3	Method of breeding	Interspecific hybridization followed by clonal selection
4	Institute/ Station responsible for development	College of Agriculture, Vellayani , Thiruvananthapuram
5	Specific features	Tall, high tillering, hybrid variety with long broad leaves suited for uplands and homestead gardens of Kerala, high crude protein and crude fibre content.
6	Productivity	Yield 300 t/ha
7	Scientists responsible for developing the variety	1. Dr. Mareen Abraham 2. Dr. Usha C. Thomas 3. Dr. D.I. Suma Bai