



स्पाइस  
भारत

SPICE  
INDIA

## OVER 225 HI-YIELDING SPICE VARIETIES IN INDIA - (Part III)

Johny .A. Kallupurackal,<sup>1</sup> and P.N. Ravindran,<sup>2</sup>

Indian Institute of Spices Research, Calicut - 673 012<sup>1</sup>

Centre for Medicinal Plants Research, Kottakkal - 676 503<sup>2</sup>

### 5. CHILLI

Sl. No	Variety/ Year of release	Pedigree/ Parentage & Plant type	Institution/ University	*AV.yield kg/ha (dry)	Salient features
1	K 1 (Kovil patti-1)1965	Pure line selection from local Sathur Samba/ Assam type B 72-A	Regional Agriculture Experimental Station, Kovil patti, TNAU, Tamil Nadu.	1700	Plants tall, spreading, long fruit (6.6 cm) pendent, red, smooth shiny surface with pointed tips, bright scarlet fruits, 75-80 seeds, pericarp 0.07 cm thick, girth 4 cm capsaicin content 0.3 mg/g of fruit, more tolerant to thrips and fruit rot, duration 210 days. The variety is suitable for rainfed cultivation in southern districts of Tamil Nadu.
2	K 2 (Kovil patti-2) 1975	A hybrid cultivar, between K1 x Sathur Samba.	-do-	1800	Tall, semi-spreading plant, fruits are long, pendulus, solitary fruit orientation, strongly stalked characters, smooth with blunt tip, pods 7.3 cm long, girth 4 cm, bright scarlet red, pericarp thickness 0.19 mm, 80-85 seeds, capsaicin 0.49 mg/g of fruit; tolerance to thrips, duration 210 days.
3	Co 1 (Coimbatore 1)1977	A variety evolved by pure line selection from Samba type from Sathur of Ramanathapuram district of Tamil Nadu.	Horticulture Reserch, Station periyakulam - 625 604, TNAU, Tamil Nadu	2100	Plant erect, medium tall, compact with moderate branching; elongated and stout fruits with high pungency; high capsaicin (0.72 mg/g). Fruits 7.3 to 8.0 cm long, seed content 55.0%, bright red in colour, duration 210 days; can be grown through out the year, all the three seasons



4.	Co21984	A pure line selection from 'gundu' type from CA (P) 63	Tamil Nadu Agricultural University, Coimbatore-641 003, Tamil Nadu	2200	An erect plant habit with pendulous and strongly stalked fruit characters. The variety is suited for both green and dry chilli. Plants are medium tall; less spreading; fruits conical, small, thick, erect, oblong, (2.4 cm long) bright red, high seed content (60%), capsaicin 0.56 mg/g of fruit, suitable for green, duration 200-210 days. This variety is exclusively suited for the agroclimatic regions of Coimbatore of Tamil Nadu.
5	PKM-1 1990	A hybrid between AC 1792 x Co.1.	-do-	3100	Plant dwarf, bold fruits, red in colour, suitable for irrigated condition, duration 180 days.
6	Co 3 (CA 586)	A pure line selection from an OP progeny germplasm introduced from Sri Lanka	-do-	3500	Plants are dwarf and less spreading. A dual purpose chilli, fruits are thick, long and slender and red colour with high oleoresin content, suitable for high density planting, duration 165-210 days.
7	Co 4	N.A.	-do-	4000	A gundu cultivar and a vegetable type, duration 210 days.
8	PMK-1	A 'gundu' type. Advanced generation selection from cross of Co.2 x Ramanathapuram gundu (an indigenous genotype)	Agricultural Research Station, Paramakudi, TNAU, Tamil Nadu	2300	Suitable for rainfed cultivation, duration 210 days. Medium pungent, short fruit.



स्पाइसस  
भारत

9	PLR-1 (Palur)1991	Pure line selection from CAP-8 a Kandangadu type.	Vegetable research station, Palur, TNAU, Tamil Nadu	1800	A 'gundu' cultivar suitable for harvesting as green chilli, plant dwarf, duration 210 days, fruit glossy green in colour, medium pungent, pendent medium size suitable for pickling purpose
10	MDU-1 (Madurai 1) 1975	An induced mutant obtained through Gamma irradiating seeds of K1	Horticultural College & Rese. Institute, TNAUMadurai-625 104, Tamil Nadu	1900	Plants dwarf, bushy compact suited for high density planting (30 x 30 cm). Fruits semi erect, pendulus, strongly stalked in clusters (4-9/clump); 8.0 cm long, shiny, red colour, 50 to 60 seeds/fruit, high capsaicin content (0.70 mg/g); 210 days duration, suitable for southern districts of Tamil Nadu.
11	Pusa Jwala 1974	A hybrid cultivar (of Samba type) between NP46A x Puri Red	Indian Agricultural Research Institute, Pusa-110 012, New Delhi	7500 (green chilli)	Plants dwarf bushy, light green with broad leaves. Fruits 9 to 10 cm long, usually curved and thin light green, turning light red at maturity, shrunken skin, capsaicin 0.48 mg/g of fruit, dry fruit wrinkled and liable to break during transport. Fairly tolerant to thrips, mites and aphids. Suitable for growing all parts of the country.
12	Pusa Sada Bahar 1989	Hybrid between Pusa Jwala x IC 31 339 (C <i>frutescens</i> ) plant	-do-	2000	A multipurpose chilli, erect, comparatively tall (60-80 cm), highly pungent, erect fruit in cluster of 6-14 numbers, 6 to 8 cm length. Ripe fruit bright red in colour. Resistant to CMV, TMV, leaf curl.
13	NP 46A(National release)	A pure line selection from local Puri Red.	-do-	7500 (green chilli)	Plant bushy dwarf, dense and spreading, a Samba type, fruits 8 to 9 cm long, thin, pendulus with pointed tip, wrinkled, bright green in colour, light red on ripening and less seed and contains 0.53 mg capsaicin/g of fruit. Tolerant to thrips and susceptible to viral disease.
14	Capsicum- Pusa Deepti (KT-1)1997	A hybrid	IARI, Regional station, Katrain-175 129, Himachal Pradesh	35000 (green chilli)	Plants vigorous, erect medium and bushy, fruits are smooth erect conical light green with thick flesh, 9-11 cm long and 3-5 cm in diameter. Early to medium maturity, tolerant to bacterial leaf spot and anthracnose disease, recommended for growing in temperate and subtropical regions of India.

\* Information of cultivars released before 1965 are not available for inclusion in this list. Details of cultivars released by State Variety Release Committees of many chilli growing states also could not be traced.



ಕರ್ನಾಟಕ  
ಭಾರತ

15	KDC-1	A cultivar obtained by crossing between Bydagi x <i>Capsicum frutescense</i> .	UAS, Dharward-580005, Karnataka	N.A.	Prostrate habit, semi wrinkled red fruits with more capsaicin than that of Bydagi. High colour and low pungency, 40% higher yield than the local variety. Resistance to leaf curl disease. Suitable for intercropping with cotton, and for cultivation in black cotton soil.
16	HCH-9646	A hybrid	Agricultural Res.earch Station (Chilli) Devi hosur Haveri, UAS, Dharward, Karnataka	2500(10-12 t/h green chilli)	A dual purpose hybrid having tolerance to leaf curl complex disease, plants vigorous, 75-100 cm height, fruits medium long, thick walled and uniform, solitary and pendent, 10-11 cm long, 1.5 to 2 cm diameter. Smooth, lustrous faint green, medium pungency, which turns to attractive deep red colour on maturity. Suitable for green as well as dry harvest, can be grown during kharif and summer season.
17	GPC-82	A selection from germplasm	UAS, GKVK, Bangalore-560065, Karnataka	N.A.	A high yielding type, ovate leaves, fruits are smooth, medium size, green with moderate pungency. Wider adaptability, grown in different seasons of the year through out Karnataka. Tolerant to leaf curl complex.
18	Pant C-1 1972	A hybrid between NP 46 A x Kandahari ( <i>C. frutescens</i> )	GB- Pant University of Agri. and Technology, Pantnagar-263145, Udham Singh Nagar (Dist) Uttaranchal	1200	Plants erect, 50-60 cm tall; fruiting commences in two months, and picking commences in 100 days after transplanting, fruits erect, small 5.5 cm long with blunt apex, surface smooth, pericarp thickness 0.09 mm, light green, turns to light red at maturity. Highly pungent, tolerant to mosaic and leaf curl viruses.
19	Pant C-2	A hybrid cultivar, between NP46A x Kandahari ( <i>C. frutescens</i> )	-do-	1400	Plants erect, medium in height, fruit long with blunt tip, pendent. Tolerant to mosaic and leaf curl virus
20	Kalyan Sel.1	NA	-do-	N.A.	N.A.
21	G 1 1962	A selection from Nallapattu Local.	RARS, ANGRU, Guntur-522034 Lam, A.P	N.A.	NA
22	G 2 1962	A selection from NP46A	-do-	N.A.	Fruits medium, slightly curved tip, calyx cup shaped green turning to red at maturity.



स्पाइस  
भारत

SPICE  
INDIA

23	G3 1962	A pure line selection from NP46A	-do-	1064 (3000 Pot yield)	Plant medium height, pods 6 to 7 cm long and 3 cm in girth; seed content 44%, pods red, thin, medium long, tips acute and slightly curved and highly pungent. Suitable for rainfed and irrigated conditions.
24	Bhagya Laxmi (G4)1968/1977(State/National release)	A pure line selection from Thobian chillies from Sri Lanka.	-do-	1176(4000 Pot. yield)	Plants tall, dense, leaves narrow, semi erect habit, pendulous fruit, solitary fruit orientation, strongly stalked, persistent calyx, pods 7 to 8 cm long and 0.7 cm in width, olive green turning to dark red on ripening; the pedicle is attached to the fruit firmly; seed content 38 to 40%; medium pungent, capsaicin 0.52 mg/g of fruit, fairly tolerant to pest and disease, with wider adaptability, through out the country.
25	Andhra Jyothi (G5) 1972	A hybrid between G2 x Bihar-13 variety	-do-	4000(5000 Pot. yield)	Plant tall and dense; pods short and stout, guadu type, 3-4 cm long 2-4cm in girth with conical shape; pericarp thick, glossy and deep red in colour, pungent capsaicin, content 0.65 mg/g of fruit tolerant to thrip, wider adaptability
26	Sindhur (CA 960)1978	Pure line selection from Hot Portugal variety (CA 960),	-do-	1200(5000 Pot. yield)	A dual chilli variety, plants tall, pods short, stout, conical shape, pericarp light green, calyx semi cup shaped, tip blunt; fruits long 7 to 8 cm with 4 to 4.5 cm girth; top is blunt; capsaicin content 0.81 mg/g of fruit, seed content 38.0%; deep red thick pericarp; suitable for summer cultivation.
27	Aparna (CA 1068)1982	NA	-do-	2100(3500 pot. yield)	Plants tall with long internodes, pods medium size with blunt tip, pods 8.3 cm long, cylindrical with semi-cup shaped calyx and blunt tip. pericarp light green, broad, turning yellow on ripening, retains colour in storage; high pungency (0.7%) capsaicin/8 m of fruit; moderately tolerant to major pests and diseases under field conditions.
28	Bhaskar (LCA-235)1985 (National release)	Hybrid variety between G 4 x Yellow Anther mutant	-do-	5000	Plants bushy, early flowering and maturing, fruits thin medium long (5-6 cm) calyx deeply cup shaped, fruits thin, tip pointed, seed content 45%, highly pungent, tolerant to thrips and mites. Suitable for pickles as well as export.
29	Prakash (LCA-206) 1991	An advanced generation selection from crossing G.3 x Hundaka a Japanese line	-do-	4500	Plants, semi tall, light green foliage, pods thin and long turn to attractive glossy red colour at maturity, medium pungent
30	LCA-305 1993	NA	-do-	5000 to 6000	Plants are bushy, fruits light green pungent with bright red after drying, tolerant to virus.
31	Punjab Lal 1985	A hybrid cultivar between Perennial x Long Red plants	Punjab Agricultural University (PAU), Ludhiana-141 004, Punjab	1200	Plant dwarf, bushy with dark green foliage, fruit erect, small size (4.25 x 0.79 cm) dark green, turning to dark red at maturity. Rich in capsaicin (0.7%), oleoresin, dry matter, red pigment and highly pungent. Resistant to TMV, CMV, leaf curl viruses, moderately tolerant to fruit rot and die back.



स्वास्थ्य  
भारत

32	CH-1 1992	A hybrid developed from cross of MS-12 (female) x LLS (male)	-do-	24000 (green chilli)	High yielding, long duration type, tolerant to diseases and pests, high adaptability, fruits medium size, high pungency and good colour; suitable for dry as well as for paste or oleoresin.
33	CH-2		-do-		N.A.
34	CH-3	A hybrid obtained from cross between M-12 (female) x S-2530 (male).	-do-	11000 (green)	Plants medium tall (69.2cm), vigorous with dark green foliage; immature fruits are dark green, turn dark red at maturity; mature 12-15 days earlier than CH1, 0.52% capsaicin content. Tolerant to fruit rot, die back, wilt and mosaic and leaf curl viruses
35	Musalwadi 1987	Pure line selection from local collection	M a h a t m a Phule Krishi Vidyapeeth, Rahuri-413 722 Maharashtra	2000	Dual purpose chilli, plant height 90-120 cm spreading in nature, fruit small 6.83 cm, width 0.95 cm, dark green with black patches, with 0.28% capsaicin, tolerant to die back and powdery mildew
36	Phule Jyoti	Selection from indigenous genotype	-do-	3000	Plants tall spreading type, fruits are dark green, medium fruit length, used as both green and dry chilli, tolerant to leaf curl and powdery mildew diseases; resistant to lodging; good for kharif and summer planting.
37	Phule Surya mukhi	Selection from indigenous genotype	-do-	2800	Fruits are medium in length green in colour, can be used both as green and red dry chilli; for powder; tolerant to leaf curl and powdery mildew; good for kharif and summer planting.
38	RHRC (Pendent cluster) 2001	Pure line selection from indigenous type.	-do-	N.A.	Fruits are borne in cluster of 4-5 and of pendent orientation
39	Shankeshwar -32	Selection from Sankeshwar type	-do-	N.A.	Plants tall (90-120 cm), fruits long 20-30 cm, thin wirey highly wrinkled, light green turn to red at maturity; mostly grown for dry fruit.
40	Agni rekha	Advanced generation selection from cross between Dondeicha x Javala	-do-	NA	Plants are light green, tall spreading fruits bold fruit long medium pungent
41	AKC-86-39 2001	N.A.	Akola, Maharashtra	N.A.	Details not available.
42	Jawahar - 218 1987	Hybrid cultivar of Kalipeeth x Pusa Jwala.	Jawahar Lal Nehru Krishi Viswavidyalaya, Jabalpur- 482 004, Madhya Pradesh	20000 (green)	Dual purpose early variety, dwarf, spreading foliage, fruit erect and big (9 x 0.92 cm), thin, wrinkled light green turn to rosy red at maturity; tolerant to leaf curl and fruit rot. Suited for green and dry chilli production.
43	JCA-154	N.A.	-do-	N.A.	A pickling cultivar, fruits are dark green and turns to bright red when ripe, 115-120 days maturity, suitable for pickling.



स्पाइसस  
भारत

SPICE  
INDIA

44	Arka Harita(MSH 96) 2004	F1 hybrid developed using male sterile lines	Indian Institute of Horticultural Research, H-essaraaghatta Lake Post, Bangalore-560 089	5.9 t (dry chilli) 38200 (green chilli)	A dual purpose chilli. Resistant to powdery mildew and viruses. Plants tall (100 cm), fruits length 10.0 cm spreading, duration 150-160 days.
45	Arka Lohit2002	A pureline selection from local collection.	-do-	N.A	Tolerant to powdery mildew and is highly pungent
46	Arka Meghana (MSH 172) 2004	A F1 hybrid chilli developed using male sterile lines.	-do-	5.1 t (dry chilli) 33500 (green chilli)	Green purpose chilli. Resistant to powdery mildew and viruses. Plants medium tall (80 cm), fruits length 10.5 cm, early bearing, duration 120-140 days.
47	Bharath1990	A hybrid	-do-	N.A.	High yielding type.
48	BC-14-2 2001	Pureline selection from sankeshwar type.	Orissa University of Agriculture and Technology, Bhubaneswar-751 003 Orissa	N.A.	N.A.
49	Jwalasakhi	Advanced generation selection of cross between Vellanotchi x Pusa Jwala.	Department of plant breeding, College of Agriculture, Kerala Agriculture University, Vellanikkara-680 656, Trichur, Kerala	20000 (green chilli)	Plant dwarf, pods having low pungency, tolerant to leaf curl virus and leaf spot disease; fruits are sulphery green, long, pendulous, succulent with low pungency; suitable for green chilli purpose. Adapted to southern districts of Kerala.
50	Jwalamukhi	Combination breeding from the same cross between Vellanotchi x Pusa Jwala.	-do-	22500 (green chilli)	Plants dwarf, fruits pendulous, succulent, dark green, medium pungent, suitable for green chilli purpose; tolerant to leaf curl virus and leaf spot. Adapted to southern districts of Kerala
51	Ujjhala(CA-219)	Single plant selection from indigenous types.	Department of Olericulture, College of Horticulture, Kerala Agriculture University, Vellanikkara-680 656,	22170 (green chilli)	Plants determinate, bushy, low branching, ideal for close planting, beautiful appearance of medium size pods in bunches, upright and cluster fruited character, pods light green, erect fruits in clusters of 8-10, highly pungent and deep red, duration 4½ to 5 months; tolerant to bacterial wilt, mosaic and leaf roll.



स्वास्थ्य  
भारत

52	Anugraha	NA	-do-	27000 (green chilli) 549.33 g/plant.	Resembles Pusa Jwala in habit, fruits medium long, pendulus and green pods, dark red at maturity, medium pungent, resistant to bacterial wilt. Plants are short statured with early maturity (92 days)
53	KA-2	N.A.	Indian Institute of Vegetable Research, Varanasi-221 005, Uttar Pradesh	1600 (green chilli)	Dwarf plant, early maturity suitable for chilli wheat crop sequence
54	CCH-3	Hybrid	-do-	NA	A chilli suitable for green production
55	Hisar Vijay (H-28)	Single plant selection from local variety	Department of Vegetable crops, CCS Haryana Agrl University, Hisar-125 004, Haryana	NA	Fruits borne in cluster, upright, medium long, dark green, turning bright red on ripening, highly pungent.
56	Hisar Shakthi (H-44)	Single plant selection from an indigenous OP variety.	-do-	NA	Plants medium tall, perennial, woody, erect, highly branched, fruits medium long (8-9 cm); in cluster and erect, pointed tip, highly pungent, light green, turning in to glossy red at ripening, suitable for export.

Note: Only selected cultivars are included in the above list. Varieties released from private companies are not listed.

## 6. Garlic

Sl. No	Variety/ Year of release	Pedigree/ Parentage	Institution/ University	AV yield t/ha	Salient features	Recommended state/region
1	Agrifound white (G-41) 1989	Mass selection from Bihar collection	National Hort. Research & Devt. Federation, Kanda Batata Bhavan, 2954E, New Mumbai, Agra Road, Nashik-422 011, Maharashtra.	130	Bulb compact, silvery white with creamy flesh, bigger elongated cloves, 20-25 in number, duration 150-160 days, susceptible to purple blotch and <i>Stemphyllium</i> blight. TSS-41%, dry matter 42.78 and good storer	Areas where there is not much problem of blotch and blight
2	Yamuna safed-1(G-1) 1991	Mass selection from local collection obtained from Delhi	-do-	150-175	Compact bulbs, silvery white skin with creamy flesh, sickle shaped cloves, 25-30 in numbers. 150-160 days duration. Tolerant to insect pests and diseases like purple blotch, <i>Stemphyllium</i> blight, onion thrips. TSS-38%, dry matter 39.5% and good storer	All over the country





स्पाइस  
भारत

SPICE  
INDIA

3	Y a m u n a safed-2 (G-50)1996	Mass selection from local collection of Haryana	-do-	150-200	Bulbs compact, attractive white creamy flesh, 35-40 cloves. Duration 165-170 days Tolerant to <i>Stemphyllum</i> and purple blotch disease as well as thrips. TSS-38-40%, dry matter 40.41%.	Northern central and western India
4	Y a m u n a safed-3 (G-282)1999	Mass selection f r o m germplasm collection from Tamil Nadu	-do-	175-200	Bulbs are creamy white and bigger sized (5-6 cm diameter), compact 15-18 cloves. Duration 140-150 days. Tolerant to thrips. TSS-38-42%, dry matter 39-43% and medium storer suitable for export.	Northern p a r t s and also in central parts of India
5	Agrifound Parvati (G-313)1992	Selection from e x o t i c collection from Hong Kong	-do-	175-225	Bigger sized bulbs of 5-6.5 cm, creamy white colour with pinkish tinge, 10-16 bigger cloves. Duration 250-270 days. Tolerant to common diseases, medium sorer. This variety is suitable for export, developed for long day condition and very popular in hills of Uttar Pradesh and Himachal Pradesh	Mid and high hills of northern states
6	G-323 1990	Mass selection from local collection obtained for UP	-do-	175-220	Bulbs silvery white and bigger sized, 30-35 cloves. Plants vigorous with wider green leaves, TSS 40-42%, dry matter 41-42%	North India
7	Godavari (selection-2) 1987	Selection	M a h a t m a Phule Krishi Vidyapeeth University, Rahuri-413 7 2 2 , Maharashtra	100-105	Medium sized bulbs, pinkish white colour, 22-25 cloves, maturity 140- 145 days.	Maharashtra
8	Sweta (selection- 10)	NA	-do-	100-105	Bigger bulbs, silvery white, 25-26 cloves per bulb 130-135 days maturity	Northern, central a n d western India
9	Ooty-1	Clonal selection from germplasm	Tamil Nadu Agricultural University ( T N A U ) Coimbatore- 640 003, Tamil Nadu	150-170	Attractive white in colour. Big bulbs, 20-25 clove resistant to thrips and tip dying.	T a m i l Nadu
10	Co-2		Tamil Nadu Agricultural University, Coimbatore- 641 003, Tamil Nadu	NA	Attractive white bulbs	T a m i l Nadu



स्वाइसेस  
भारत

11	Co-1	NA	-do-	NA	NA	-do-
12	VL Garlic-1	Clonal selection from EC 158250	Vivekanda Paevatiya Krishi Anusandhan Sansthan, Almora-263601	140 to 150 in hill and 90-100 in plains	NA	Uttaranchal, Himachal Pradesh, Jammu & Kashmir, UP, Bihar and Punjab
13	ARU-52	NA	Vivekanda Paevatiya Krishi Anusandhan Sansthan, Almora - 263601	NA	NA	
14	T-56-4	Selection	Punjab Agricultural University (PAU), Ludhiana-141004, Punjab	8-100	Smaller size bulb, white in colour 25-35 cloves. 130-135 days maturity	Punjab
15	LGG-1	NA	Punjab Agricultural University (PAU), Ludhiana-141004, Punjab	NA	NA	Punjab
16	Pant Lohit-1. 2001	Farmers field primitive cultivar	Dept. of Vegetable Sciences, G.B Pant University of Agriculture and Technology, Pant Nagar, Uttaranchal	NA	Bulbs attractive, purple skinned variety, heavy seed potential for yield bud storage. Tolerant to purple blotch disease.	Uttar Pradesh and Uttaranchal
17	Pant Lohit-2	NA	Dept. of Vegetable Sciences, G.B Pant University of Agriculture and Technology, Pant Nagar, Uttaranchal	NA	NA	Uttaranchal



स्वास्थ्य  
भारत

SPICE  
INDIA

18	Pusa Sel-10	NA	Indian Agricultural Research Institute, Pusa-110 012, New Delhi	NA	NA	
19	HG-1	NA	Dept. of Vegetable Sciences, Haryana Agricultural University (CCHAU), Hisar-125 004, Haryana	NA	NA	Haryana
20	HG-6	NA	Dept. of Vegetable Sciences, Haryana Agricultural University (CCHAU), Hisar-125 004, Haryana	NA	NA	Haryana

### TREE SPICES

#### 7. CINNAMON

Sl. No	Variety/ Year of release	Pedigree/ Parentage & Plant type	Institution/ University	AV.yield kg/bark/ ha	Salient features	Recommended state/region
1	YCD.1 1996	Clonal selection from OP seedlings progenies of Sri Lankan type.	Hort. Research Station, (TNAU), Yercaud-636 602, Dist. Salem, Tamil Nadu	Dry bark yield of 360kg /ha (143.9g dry bark/ plant)	Good bark recovery, adapted to wide range of soil and rainfed conditions. Bark oil 2.8%, leaf oil 3.0%, bark recovery 35.3%.	High ranges at 500-1000 m above MSL, Tamil Nadu
2	PPI (C)-1 2003	Selection from OP seedlings progeny introduced from Sri Lanka seed supplied from IISR.	HRS, (TNAU) Pechiparai-629 161 Kanyakumari Dist., Tamil Nadu	Fresh bark yield of 980 kg/ ha.	Bark, higher oil recovery from the bark (2.9%) and leaf oil recovery of 3.3%, bark oil 2.9%, leaf oil 3.3%, bark recovery 34.22%. Suitable for cultivation in high rain fall zones and hill regions of Tamil Nadu at an altitude range of 100-500 m MSL	High rainfall zones and hill ranges of Tamil Nadu.



स्पाइस  
भारत

Sl. No	Variety/ Year of release	Pedigree/ Parentage & Plant type	Institution/ University	AV.yield kg/bark/ ha	Salient features	Recommended state/region
3	Konkan Tej 1993	Seedling selection from progenies of Sri Lankan accessions	Regional Coconut Research Station, Dr. BSKKV, Vengurle-416516, Bhatye (Dist) Ratnagiri, Maharashtra.	Fresh bark yield of 334g/plant(102g dry bark/plant)	Superior qualities with 3.2% bark oil with bark recovery 29.16%, cuminaldehyde in bark oil 70.23, eugenol in bark oil 6.93%, leaf oil 2.28%, eugenol in leaf oil 75.5%, yields 4.10kg fresh bark. Bark recovery 51.78%.	Konkan region of Maharashtra
4	Sugandhini (ODC-130) 2000	Single tree selection from Wynad local collection. A Sri Lankan type	Aromatic and Medicinal Plants Research Station (KAU), Odakkali, Asamanor, P.O., Ernakulam	640 kg(1.2 kg fresh bark/tree, 18.34 kg fresh leaves/tree/year)	Recommended for cultivation for leaf oil production, bark oil 0.94%, leaf oil 1.6%, bark recovery 51.0%, cinnamaldehyde in bark oil 45.0%, eugenol in leaf oil 93.7%; released mainly for leaf oil purpose. Densely foliage.	Midlands and high lands of Kerala and South India
5	RRL(B) C-6 1996	Selection from germplasm collection- OP seedling progenies	Regional Research Laboratory, CSRI, Bhubaneswar, Orissa	250 kg bark/ha. (Pot yield 1000 kg)	High quality, bark with 83.0% cinnaldelyde content in bark oil, 94.0% eugenol in leaf oil, leaf oil 0.8%. spreading, branching, nature, sweet and pungent	Orissa and coastal regions of India
6	IISR-Nithyashree 1996	Clonal selection from OP seedling progeny	Indian Institute of Spices Research, ICAR, Calicut-673 012, Kerala	200 kg dry quills.(Pot. yield 250/ kg dry quills)	Good regeneration capacity, bark and leaf oleoresin contents are high. Good bark recovery with good aroma and taste. Bark oil 2.7%, leaf oil 3.0%, bark oleoresin 10.0%, bark recovery 30.7%, cinnamaldehyde in bark oil 58.0%, cinnamaldehyde in leaf oil 14.0%, eugenol in bark oil 5.0%, eugenol in leaf oil 78.0%.	All cinnamon growing areas in South India
7	IISR-Navashree 1996	Selection from OP seedling progeny of Srilankan collections	-do-	200 kg dry quills (Pot. yield 250 kg quills)	High quality line, good bark recovery with good aroma and taste, grow well in plains and high elevations. Bark oil 2.7%. High cinnamalyde content (73%) in bark oil, medium quality. Leaf oil 2.8%, bark oleoresin 8.0% bark recovery 40.6%, cinnamaldehyde in leaf oil 15.0%, eugenol in bark oil 6.0%, eugenol in leaf oil 62.0%.	All cinnamon growing areas in South India.



स्पाइस  
भारत

8. Nutmeg

Sl. No	Variety/ Year of release	Pedigree/ Parentage & Plant type	Institution/ University	*AV.yield kg/ha (dry)	Salient features	Recommended state/region
1	Konkan Sugandha 1998	Single plant selection from local seedling population.	Regional Fruit Research Station, Vengurla, Maharashtra	200-526 fruits/ tree	Adaptable in Konkan region. Tree canopy is conical and compact.	Maharashtra
2	Konkan Swad 2003	Selection from nutmeg seedlings from Ratnagiri dist.	Regional Coconut Research Station, Bhatye (Dr. BVSKU), Ratnagiri district.	761.38 fruits/tree	Adapted to Konkan region with warm, humid conditions as well as shade provision. Canopy erect, conical shape. Contain 39.8% essential oil in seed and 10.9% in mace. No incidence of pest & disease are noticed	Konkan region of Maharashtra.
3	Viswashree 2001 (identified)	Clonal selectin from elite germplasm	Indian Institute of Spices Research, ICAR, Calicut- 673 012, Kerala	1000 fruits (1.33 kg mace, 9 kg dry 3122 kg/ha)	Bushy and compact canopy, low incidence of fruit rot. Nut recovery 70.0%, mace recovery 35.0% and nut oil 7.14%, mace oil 7.13%, oleoresin in nut 2.48% and mace 13.8% respectively, nut butter 30.9% myristicin, in nut 12.48% and mace 20.03% respectively	Kerala and other areas of similar climatic features

9. Tamarind

1	PKM-1 1992	Selection	Horticultural Research Station, Periyakulam- 625 604, TNAU, Theni (Dist) Tamil Nadu		Dwarf high yielding line	Tamil Nadu
2	DTS-1 1996	Selection	Dept. of Horticulture, University of Agril Sciences, Dharwad-580 005, Karnataka	1.5 kg (dry) per plant	A sweet red type classified based on colour and taste of pulp, slightly susceptible to pod borer	Karnataka
3	Prathisthan	Selection	Fruit Research Station, Himayat Bagh, Aurangabad, Maharashtra.	NA	NA	Maharashtra

स्वास्थ्य  
भारत

Sl. No	Variety/ Year of release	Pedigree/ Parentage & Plant type	Institution/ University	*AV.yield	Salient features	Recommended state/region
4	NO.263	Selection	Fruit Research Station, Himayat Bagh, Aurangabad, Maharashtra	NA	NA	Maharashtra
5	Yogeswari	Selection	Forest department, Karnataka.	NA	Red pulp	Karnataka.

## 10. Curry leaf

1	DWA-1	A clonal selection from root suckers	Dept. of Horticulture, University of Agri Sciences, Dharwad-580 005, Karnataka	NA	The plant having dark green highly aromatic shining leaves. It is sensitive to low temperature in winter and hence bud burst is poor during winter. The leaves has an oil content of 5.22%, can be dehydrated at 50°C without loss of quality and made into dry powder.	Karnataka
2	DWA-2	An OP seed progeny	-do-	NA	Leaves slightly pale green having lesser aroma and 4.09% oil content. It is not very sensitive to low temperature and much superior in number of buds burst, aid internodal length. Due to the winter insensitive nature the variety gives extra income.	Karnataka

## 11. Kokum

1	Konkan Amruta 1997	Selection from seedlings from Ratnagiri and Sindhudurg districts.	Agriculture Research Station, KKV, Shirgaon, Tal district, Ratnagiri, Maharashtra.	138.28 kg	Attractive fruit, apple-like shape; 81.72% moisture, 9.08% TSS, 2.41% reducing sugar, 4.52% total sugar, 5.12% acidity with longer shelf life (115 days). Early maturity type suitable for processing before monsoon season.	Southern Konkan zone of Ratnagiri, Maharashtra.
---	--------------------	---	--	-----------	--	---

(to continue)