

CULTIVARS / VARIETIES OF AROMATIC PLANTS

Sl No	Crop	Cultivar/ Variety	Place & year of releasing	Characters
1	Celery	RRL-85-1	Regional Research Laboratory, Jammu	Essential oil contains phellandrene as principal constituent Carvone- 30%
		EC-99249-1		
		PRL-85-1		
2	Chamomile	Vallary	CIMAP, Lucknow	Oil content – 182%
		Prashant	CIMAP, Lucknow	Oil content in capitula – 0.54% Chamazulene in oil- 7.50%
		Goral		
		Bona		Chamazulene in oil-11.6-21.8%
		Csomori		Chamazulene in oil-10.8-18.3%
		Degumille		Chamazulene in oil-17.8-20.8%
		Badakalasz-2		Chamazulene in oil-12.0-17.6%
3	Cinnamon <i>Cinnamomum verum</i>	RRL (B)-C6	RRL, Bhuvaneshwar	
		Konkan Tej		
		ODC 130 (Sugandhini)	AMPRS, Odakkali Year of release: 2000	Recommended for leaf oil. Oil recovery 1.6% on fresh weight basis 3.7% on dry weight basis; Eugenol 94% Oil yield- 300 ml/tree/yr
		Navashree (SL 63)		22 kg dry bark/acre/year
		Nithyashree (IN 189)		21 kg dry bark/acre/year
4	Citronella	Jorhat-C ₂		
		Java-2		
		Jorlab- C-2	RRL, Jorhat	
		RRL-Jor-3-1970	RRL, Jorhat	
		RRL(B)-15	RRL, Bhuvaneshwar	
		CIMAP-Bio-13	CIMAP, Lucknow	Oil yield-191 kg/ha Oil contains 38 % citronellal
		Manjusha	CIMAP, Lucknow	Oil yield-250kg/ha Oil contains 43 % citronellal
		Mandakini	CIMAP, Lucknow	Oil yield- 232 kg/ha Oil contains 38% citronellal
		Bio - 13	CIMAP, Lucknow	Oil content – 37%
		Manjari (an elite mutant clone of Manjusha M3-8)	CIMAP, Lucknow	50-90% more oil with 39% citronellal and low elemol content
		Jalpallavi	CIMAP, Lucknow	Oil yield- 300 kg/ha Oil contains 42% citronellal
RRL JOR-3-1970				
CIMAP/73-1				
5	Clarysage	Zarya (hybrid)	Bulgaria	Medium early- 0.24% oil and oil yield 45 kg/ha 78% linalyl acetate in oil
		Lazur -hybrid	Bulgaria	0.23% oil and 73% linalyl acetate
		CIM-Chandni	CIMAP, Lucknow	Oil content- 0.133%
6	Cumin	RZ-19		
		RZ-209		
		GC-1		

		GC-2		
7	Dill	Haldwani selection, English stock, Gribovskii, Lesnogradski, K-299, K-253, Mammoth Long Island, Daniel and Herkules.		Gribovskii has high herbage and seed yield. Lesnogradski has best flavoured leaves and highest oil content in the leaves and seeds.
8	Fennel	Vulgare and dulce		Vulgare giving bitter fennel and dulce producing sweet fennel oil
		RL-101	Rajasthan Agricultural University, 1995	Matures in 150-160 days and produces an average yield of 15.5 q/ha
		RF-125	Rajasthan Agricultural University, 1997	Matures in 110-130 days and produces an average yield of 17.3 q/ha
		PF -35	Gujarat Agricultural University, 1973	Matures in 225 days and produces an average yield of 12.8 q/ha
		Gujarat Fennel -1	Gujarat Agricultural University, 1985	Matures in 225 days and produces an average yield of 16.95 q/ha
		Co-1	Tamil Nadu Agricultural University, 1985	Matures in 220 days and produces an average yield of 5.67 q/ha
9	French basil	RRL-011		Oil-0.45%
		Vikarsudha	CIMAP, Lucknow	Oil content 0.7%
		Kusumohak	CIMAP, Lucknow	Linalool (46%), moderate chavicol (38%). Oil yield- 134 kg/ha
10	French Jasmine	CO-1 Peechi	Tamil Nadu Agriculture University, Coimbatore	Yield- 10 t/ha/year, containing 0.29% concrete and 25kg/ha concrete yield
		Arka Surabhi (Pink pin)	IIHR, Bangalore	0.35% concrete yield- 10 t/ha of flowers and 35 kg/ha of concrete
11	Geranium	Algerian or Tunisian,(PG-7) & PG -7 released under name KKL1	Horticulture Research Station, Kodaikkanal	Algerian or Tunisian yields 50-60% more oil with a more delicate odour PG-7 -0.3% essential oil
		Reunion or Bourbon (PG-20)	Horticulture Research Station, Kodaikkanal	and PG-20
		Sel-8 (a Reunion type)	Indian Institute of Horticulture Research (IIHR), Bangalore	
		Hemanti, Bipuli, Kunti	CIMAP, Lucknow	
		CIM -Pawan		Oil concentration-0.20%
		Algerian or Tunisian		Oil concentrations- 0.10% (by hydrodistillation) & 0.03% (by steam distillation)
		Bourbon		Oil concentrations- 0.18% (by hydrodistillation) & 0.10% (by steam distillation)
		Kelkar		Oil concentration-0.10%
12	Hops	Harmukh, Soma Jubilee and RRL-H-84	Regional Research Laboratory, Jammu	Suitable for cultivation in different regions of North India. RRL-H-84 has been registered

				by the Crop Science Society of America.
		Bramling, Early cluster		Early varieties
		Canterbury Golding, Whitebread golding		Middle season varieties
		Fuggle, Eastwell Golding		Late varieties
		Late cluster, Talisman, Hybrid-2, Bullion Hop, Brewers Gold, Bramling Cross		New bred varieties
13	Jam rosa	RRL -14(C. khasianus) and RRL-82 (C.nardus var. confertiflorus x C.jawarancusa)	Regional Research Laboratory, Jammu,	Essential oil- 0.4% Geraniol- 60-65% Geranyl acetate- 20-25%
14	Ramacham / Vetiver <i>Chrysopogon zizanioides</i>	Dharini	CIMAP, Lucknow	Khus note, ver tall, pink coloured inflorescence, high tillers, tolerant to sodic soils Dharini has longer and thicker roots and is a good soil binder , suited for North Indian Plains
		Gulabi	CIMAP, Lucknow	Oil has rosy odour, very late flowering, red coloured inflorescence,medium long roots with high oil yield, tolerant to sodic soils Gulabi yields about 1.1 tonnes of dry roots and 10-12 kg essential oil from one acre. It can also be cultivated in marginal soils and wastelands, suited for all Indian soils
		Keshari	CIMAP, Lucknow	Oil has saffron odour, medium tall, very early floweing, greenish white inflorescence, medium long roots with high oil yield suited for all Indian soils
		CIM Vriddhi	CIMAP, Lucknow	Khus note, medium tall, late floweing, red inflorescence, suitable for high moisture condirions and high fertile soils
		Sugandha	CIMAP, Lucknow	(improved tetraploid strain) Oil – 1.4%(in fresh roots)
		KS-1	CIMAP, Lucknow	(superior clones from North Indian types)
		KS-2	CIMAP, Lucknow	(superior clones from North Indian types)
		Hybrid 8	NBPGR, New Delhi	Oil- 1% (root) Vetiverol content- 70- 85% suited for all Indian soils
		ODV 3	AMPRS, Odakkali	Good root and oil yield in Kerala 2 t/acre of root and 8-12 kg oil/acre. Flowers seldom set seeds

				suited for major vetiver growing areas
15	Lavender	Sher-E-Kashmir	CIMAP, Lucknow	Oil – 80-100%
		Kazanlux, Karlovo, Hemus, Aroma, Svezhest and Vanets	Bulgarian varieties	
		Stepnyay, Goranya, Prima, Record, French Bareme, and Lambris	Soviet varieties	
		AM-1, AM-2, AM-3, A-5, A-7, A-8, A-9, B-2, B11 (high yielding clones)		
16	Lemongrass (East Indian) <i>Cymbopogon flexuosus</i>	Pragati (clonal selection from OD-19)	CIMAP, Lucknow, U.P.	Dwarf , broad , erect and dark green leaves, high oil & Citral content Average Oil yield : 0.63 % Citral : 85-90 % Adapatability: High fertile / Irrigated soils; suitable for north Indian Plains & tarai belt of subtropical and tropical climate
		Nima	CIMAP, Lucknow, U.P.	High yield of bio mass (10 Mt/acre) with high oilyield (90-100 kg/acre.) Tall , Citral type Adapatability: Indian plains
		Cauvery	CIMAP, Regional Station, Bangalore	White stemmed selection from OD-19 with an improvement in yield in terms of oil and citral content. Tall, Citral type Adapatability: Requires high soil moisture and is evolved for river valley tracts of Indian Plains
		Krishna	CIMAP, Regional Station, Bangalore	Medium tall , high tiller and herb with high oi yielding Citral type High yield of bio mass (10-11 t/acre) with high oil yield (90-100 kg/acre) Adapatability: Indian Plains
		NLG-64	AINRP on M & AP , NDUAT, Faizabad , Uttar Pradesh 1994	High herbage yield , 100 - 110cm tall , broad leaves with dark purple sheath. It is a selection from germplasm. Oil content - 0.4 % , Citral content - 84 % Adapatability: Uttar Pradesh
		Sugandhi (OD-19)	AMPRS , Odakkali, KAU, Kerala	A red stemmed variety with plant height 1 to 1.75 m and profuse tillering. Oil content: 0.3 – 0.4% Oil yield : 40 -50 kg/acre Citral : 84 – 86 %

				Adaptability : Adapted to a wide range of soil and climatic condition. much suited for rainfed cultivation
		OD 410	AMPRS , Odakkali, KAU, Kerala	Oleoresin content of leaf: 18.6% Oleoresin yield : 1050 kg /acre /year Ideal solvent for extraction: Methanol
		SD-68	CIMAP	Oil content- 1.2-1.5% Citral content- 80-85%
17	Lemongrass (West Indian) <i>Cymbopogon citratus</i>	Thai 1		
18	Lemongrass (Jammu lemongrass) <i>Cymbopogon pendulus</i>	Praman	CIMAP, Lucknow	Oil with 82% citral content
		Chirharit	CIMAP, Lucknow	
		RRL -16	Regional Research Laboratory, Jammu, 1974	A selectant of C.pendulus has 0.28% essential oil with 79-82% citral.
		RRL-CN-5 (Cymbopogon nardus var confertiflorus)	Regional Research Laboratory, Jammu, 1998	Rich source of geraniol
		KALAM (CPK-F2-38)	Regional Research Laboratory, Jammu, 2003	Improved F2 derivative of F1 hybrid of C.pendulus x C. khasianus. Selectant has better oil yield than RRL-16
		Tawi Rosa	RRL,Jammu, 2003	Geraniol rich variety (70-75%)
		GRL-1	CIMAP, Lucknow	
		Jorlab-L-2	RRL, Jorhat	
		CKP-25	RRL, Jammu	An interspecific hubrid of C. khasianus x C.pendulus 0.5% essential oil with 82-85% citral
		RRL-57	RRL, Jammu	
		RRL-59	RRL, Jammu	Oil yield- 350 kg/ha
		RRL-38	RRL, Jammu	Oil yield- 225 kg/ha
RRL-39	RRL, Jammu			
19	Lemon scented gum	EC-153, EC-3315, EC-261		
20	Marigold	Vanphool		
21	Mint	CIMAP/MAS-1		
		CIM-Indus (Mentha X Piperita)	CIMAP, Lucknow	Oil content- 0.35%
		Saksham		Oil content- 0.8% Menthol - 83% Menthol yield (kg/100m ²) - 1.295
		Pranjal (Mentha X Piperita)	CIMAP, Lucknow	Oil content (% V/W) – 0.80% Menthol (% V/V) - 51.6% Total oil yield (l/ha)-145
		Pratik (Mentha X gracilis cv. Cardiaca)	CIMAP, Lucknow	Oil content- 0.65-1.00% Total oil yield(l/ha)-250-270
		Kosi	CIMAP, Lucknow	Early maturing variety and suitable for transplanting after

				rabi crops
Japanese mint (<i>M. aervensis</i>)	Himalaya(MAS-1)	CIMAP, Lucknow		Oil- 0.8-1.0% with 81% menthol content
	Kushal (derived from Himalaya)	CIMAP, Lucknow		Oil yield- 172-200 kg/ha
	Kalka (Hyb-77)	CIMAP, Lucknow		Oil containing 81.5% menthol
	Shivalik	CIMAP, Lucknow		High oil yield and high menthol content in oil
	EC-41911			Oil yield- 12.2 kg/ha with menthol content of 70%
	HY-77			Oil content – 20%
	Gomti	CIMAP, Lucknow		Oil content – 12%
Pepper mint [<i>M. piperita</i>]	Kukrail	CIMAP, Lucknow		Rich in menthol
	CIM-Madhuras	CIMAP, Lucknow		Oil content in laboratory condition- 0.65% Rich in menthol
	Tushar	CIMAP, Lucknow		Herb yld between 200-225 q/ha and oil yld between 0.4-0.45%. Rich in menthol
	Pranjal	CIMAP, Lucknow		Herb yld between 200-225 q/ha and oil yld between 0.4-0.45%. Rich in menthol
	CIM Indus	CIMAP, Lucknow		Herb yld between 200-225 q/ha and oil yld between 0.4-0.45%. Provides menthofuran rich oil
Bergamot mint [<i>M. citrate</i>]	Kiran	CIMAP, Lucknow		Yields 239 kg/ha oil with 48% linalool
Spear mint [<i>M. spicata</i>]	MSS-1	CIMAP, Lucknow		Yields 253kg/ha of oil containing 60% carvone
	MESS-5	CIMAP, Lucknow		Oil contains 70% carvone
	Punjabsparmint-1	CIMAP, Lucknow		0.57% oil with 68% carvone
	Arka and	CIMAP, Lucknow		Oil content – 21%
	Neera	CIMAP, Lucknow		Oil content – 23%
	PSS-1			Oil content-0.44%
	MSS-5	CIMAP, Lucknow		Oil content – 37%
Garden mint [<i>M. viridis</i>]	Supriya	CIMAP, Lucknow		
Scotch spearmint [<i>M. gracilis</i>]	MCAS-2	CIMAP, Lucknow		
22	Ocimums			
O.americanum	RRL-02	RPL, Jammu		Oil recovery - 0.44% Major constituent – Methyl chavicol
	RRL-07	RPL, Jammu		Oil recovery- 0.44% Major constituent – Methyl chavicol (70-75%)
O.basilicum	RRL -07	RPL, Jammu		Oil recovery - 0.50% Major constituent – Citral (75-80%)
	RRL-011	RPL, Jammu		Oil recovery - 0.50% Major constituent- Linalol (50%) and Methyl chavicol (35%)
	CIM-Saumya	CIMAP, Lucknow		Oil content- 0.68% (in fresh herb) & 0.99% (in dry herb) Methyl chavicol- 62.54% Linalool – 24.61%

		Vikarshudha	CIMAP, Lucknow	Oil content – 0.7% Oil yield- 85%	
		Kusumohak	CIMAP, Lucknow	Oil yield- 134 kg/ha containing 45% linalool and 37% methyl chavicol in whole herb oil	
	O.canum	RRL-01	RPL, Jammu	Oil recovery- 0.5% Major constituent- Linalool	
		RRL-Oc-11	RRL, Jammu	Oil yield- 230 kg/ha	
		RRL-Oc-12	RRL, Jammu	Oil yield- 170 kg/ha Oil percentage- 0.45-0.60%	
	O.gratissimum	RRL-08	RPL, Jammu	Oil recovery- 0.40% Major constituent- Eugenol (75- 80%)	
		RRL-Og-14	Regional Research Laboratory, Jammu	Essential oil- Av.1.2% F.B Eugenol- 85-90%	
		Thymocimum	RRL, Jammu		
	O.gratissimum x O. viride	RRL-15	RPL, Jammu	Oil recovery- 0.50% Major constituent- Eugenol (75- 80%)	
	O.viride	RRL-08	RPL, Jammu	Oil recovery- 0.50% Major constituent –Thymol (65- 70%)	
		RRL-09	RPL, Jammu	Oil recovery- 0.50% Major constituent –Thymol (65- 70%)	
	O.sanctum	CIM-Ayu	CIMAP, Lucknow	Oil content-0.70% Oil yield(kg/ha)- 110.95	
		CIM-Angana			
		CIM Kanchan			
23	Palmarosa	IW 31245 & IW 31243	All India Co-ordinated project on the improvement of Medicinal and Aromatic Plants		
		IW3629			
		IW 3244			
		RRL(B)-77		RRL, Bhuvaneshwar	
		Trishna & Tripta, PRC-1, Vaishnavi		CIMAP, Lucknow	Suited for commercial cultivation and quality of oil is superior.
		Rosagrass Haryana 49 (RH-49)			
		Composit-12			
		Jawahar Rosa 68 (JR-68)			
CI-80-68					
24	Patchouli	Johore		Oil content- 2.73%	
		Singapore		Oil content- 2. 10%	
		Indonesian		Oil content- 2. 34%	
		Java		Oil content- 1.43% Oil yield- 51.54 lit/ha	
		CIM-Samarth	CIMAP, Lucknow	It is high yielding having high regeneration capability and is tolerant to most of diseases	
		Malaysian			
		Java			
25	Rose	Jwala & himroz	Institute of Himalayan		

			Bioresource Technology (IHBT)	
		Noorjahan	CIMAP, Lucknow	Oil content – 200%
26	Sweet flag	CIM-Balya	CIMAP, Lucknow	Oil content – 0.60-0.65%
27	Tuberose	Suvasini (single type)	IIHR, Bangalore	
		Rajat Rekha (single type)	National Botanical Research institute (NBRI), Lucknow	
		Swarna Rekha (double variety)	National Botanical Research institute (NBRI), Lucknow	
		Shrinagar	IIHR, Bangalore	