



# Plant Invasion As Deduced From Priya Nighantu

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## Abstract:

The classical Nighatus are heritage of Indian culture being the bases of Ayurveda, an Indian system of medicine. Priya Nighantu is one such lexicon authored by Priyavrit Sharmaji in the 21<sup>st</sup> century. It is the latest Ayurvedic lexicon which attempted at solving many controversies of plant-based drug identification. The present author gleaned total 159 exotic floral elements pertaining to 131 genera and 60 angiospermic families. The dicotyledons (139 species, 113 genera and 55 families) played a major role in bioinvasion in India as compared to the monocotyledons (20 species, 18 genera and 05 families). These are exclusively wild (58 species) or cultigens (99 species) apart from 02 species which are both, wild as well as cultivated). The herbaceous floral elements are comparatively dominant over other habital categories. Their nativities have been pointed out using relevant taxonomic literature. They belong to both Old and New Worlds. American continent is although distant, shared a fair number of exotic plant species. The information so accrued will be useful while embarking upon the management and conservation of Indian biodiversity.

**Key Words:** Priya Nighantu, Exotic Plants, Bioinvasion, India.

## Introduction:

This 21<sup>st</sup> century lexicon *viz.*, Priya Nighantu is authored by Acharya Shri Priyavrit Sharmaji. It is simple and easy to understand. He clarified many controversies noted in earlier works. He touched nearly all aspects of medicinal plants. This lexicon is conveniently divided into 13 sections (Vargas). He removed synonymy of drugs and put single meaning synonyms to the drugs. This avoided confusion in their identities. The author has thus took serious efforts to render the lexicon simple one. He also added some ayurvedic pharmacological definitions which are very useful for diagnosis.

## Methodology:

The present author critically studied Priya Nighantu authored by Sharma (2004). Efforts are extended to know Sanskrit plant names contained in it. These have been equated with the recent botanical (Latin) names. These are also assigned to their respective plant families. Data *w.r.t.* habit and status (wild or cultivated) is

also carefully noted in the Table-I. Each plant species is critically examined for their exotic status revealing nativity of each species after consultation of relevant taxonomic literary sources. These sources are mentioned against the names of each plant species. The information thus obtained is discussed in the light of plant invasion in India.

## Results & Discussion:

Ancient Indian wisdom needs to be seen in the light of modern scientific and rational information for more effective application for human welfare. It is for this reason we must peep into the ancient Sanskrit lexicons which are heritage of India. The history of present day Ayurveda is one such aspect that seeks attention of research workers. Ayurvedic history is divisible mainly into three time periods viz. (i) Vedic period, (ii) Samhita periods and (iii) Nighantu period. The present author paid attention to the former two period in the perspective plant invasion gleaning various lexicons (cf. Patil, 2017; 2024 a,b,c). However, the Nighantus have yet remained untouched from this point of view. The Nighantu period is the golden period of the Ayurvedic Materia Medica literature. It is, therefore, being studied to add more and recent information in invasion biology with particular reference to India.

The Priya Nighantu authored by Priyavrit Sharmaji is the latest 21<sup>st</sup> century important lexicon in Ayurvedic Materia Medica. The author took tremendous efforts to clarify controversial aspects to render it simple and to explain applied aspect of the medicinal plants. This lexicon is divided into 13 sections and contains total 492 drugs of plant origin. Of these, the present author analysed a total of 159 plant species of medicinal significance as exotic in origin invading Indian territory. These pertain to 131 genera and 60 angiospermic families. The dicotyledonous taxa have major share in bioinvasion (139 species, 113 genera and 55 families), whereas the monocotyledonous ones have relatively lesser share (20 species, 18 genera and 05 families). These total species are either exclusively wild (58 species) or cultivated (99 species). However, 02 species are both as wild our cultigens. They exhibited various habital categories viz., trees (41 species), shrubs (12 species), climbers (22 species) and herbs (84 species). The herbaceous flora is dominant over others. The wild ones obviously now form an integral segment of Indian biodiversity. The cultivated species although mentioned in this lexicon as of medicinal importance, they are useful variously as edible fruits, nuts, spices and condiments, ornamental and shade trees, vegetables, masticatory, pulses, narcotics or aromatics, oil-yielders, salads, fibre-yielders, cereals, millets, etc. These thus improved native economy in India and play a great role in human sustenance.

These taxa have evaluated for their origin or nativities consulting relevant taxonomic literary sources. Variuos nativities have been put forth. They pertain to both Old and New Worlds covering all continents, many counries, islands, mountains and specific geographical regions outside India. They are thus pertaining to: America (47), Asia (Excl. India) (43), Africa (35), Europe (26) and Australia (05). They also belong to various regions or countries such as: China (18), Mediterranean Region (15), Malaysia (06), Brazil and Arab (05 each), Japan and Malaya (04 each), Afghanistan, Persia, Malayan Archipelago, Java, Eurasia, Greece and Asia Minor (03 each). There are few other regions which contributed for 02 species each e.g. West Indies, Sino-Japanese, Indonesia, East Indies, Pantropics, Medagascar, Afro-Asian, Middle East and Syria. Still few

other regions are represented a single species each such as Moluccas, Ceylon (Sri Lanka), Indomalaya, New Guinea, Taiwan, Myanmar (Burma), Baluchistan, Indonesian Archipelago, Borneo, Sumatra, Bali, England, Ireland, Persian Gulf, Pakistan, Tropics, Malaya, Texas, Cyperus, Argentina, Egypt, Andes, Peru, Chile, Jamaica, Philippines, Caucasus mountains, etc.

Biotic elements of India are moulded largely by its physical features including human history in India particularly that of the Vedic *vis-à-vis* Indian civilization. It bears a stamp of this phenomenon at its social, cultural and spiritual levels. Indian vegetation also, in its variety and abundance, is patterned accordingly. The ancient Indian culture is reflected in ancient Sanskrit lexicons, of which Nighantus constitute an important source. The present author, therefore extended his inventory on Nighantus belatedly, the results of which will be of immense help while embarking upon biodiversity management and its conservation in India.

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**Table-I: Exotic Plant Species In Priya Nighantu**

Sr. No. (1)	Sanskrit Plant Name (2)	Botanical Name & Family (3)	Cultivated (C)/ Wild (W) (4)	Habit (5)	Nativity & Reference (6)
1.	Kashmarya	<i>Gmelina arborea</i> Roxb. Verbenaceae	C	Tree	Malaya: Medakkar & Sharma, 2016a.
2.	Gokshura	<i>Tribulus terrestris</i> Linn. Zygophyllaceae	W	Herb	(i) Tropical America: Reddy, 2008; Chandra Sekar, 2012. (ii) Africa & Asia (Excl. India): Kaul, 1986.
3.	Ballataka	<i>Semecarpus anacardium</i> Linn. Anacardiaceae	C	Tree	West Indies: Sainkhedia, 2016.
4.	Karpura	<i>Cinnamomum camphora</i> (L.) Nees & Eberm. Lauraceae	C	Tree	(i) China & Japan: Bailey, 1949. (ii) Japan: Matthew, 1991. (iii) Taiwan: Gopalswamiengar, 1991. (iv) South-East Asia: Novak, 1966. (v) China & South Japan: Wilson, 1994.
5.	Jatiphala	<i>Muristica fragrans</i> Houtt. Myristicaceae	C	Tree	Moluccas: Singh <i>et al.</i> , 2001.
6.	Twak	<i>Cinnamomum verum</i> J.S. Presl. (Syn. <i>C.zeylanicum</i> Breyn.) Lauraceae	C	Tree	(i) Ceylon (Sri Lanka): John, 1891; Singh <i>et al.</i> , 2015. (ii) South-East Asia: Novak, 1966.

Sr. No. (1)	Sanskrit Plant Name (2)	Botanical Name & Family (3)	Cultivated (C)/ Wild (W) (4)	Habit (5)	Nativity & Reference (6)
7.	Shirisha	<i>Albizia lebbek</i> (L.) Benth. Mimosaceae	C	Tree	(i) Pantropical Africa & Tropical Asia: Bhandari, 1978. (ii) Indo Malaya, New Guinea & North Australia: Singh <i>et al.</i> , 2015.
8.	Ingudi	<i>Balanites aegyptiaca</i> (Linn.) Delile Balanitaceae	W	Tree	Africa & Arab: Medakkar & Sharma, 2016b.
9.	Babboola	<i>Vachellia nilotica</i> (L.) P.J.H. Hunter (Syn.Acacia Arabica Willd.) Mimosaceae	W	Tree	North Africa & Arab: Rajagopal & Panigrahi, 1965; Purseglove, 1968.
10.	Varuna	<i>Crataeva magna</i> (Lour.) DC. Buch.-Ham. Caparaceae	C	Tree	Tropical America: Medakkar & Sharma, 2016b.
11.	Mahanimba	<i>Melia azedarach</i> L. Meliaceae	C	Tree	(i) Myanmar: Patil, 2003. (ii) Burma: Kshirsagar & Patil, 2008.
12.	Paribhadra	<i>Erythrina variegata</i> L. (Syn.E.indica Lam.) Papilionaceae	C	Tree	Malaya: Medakkar & Sharma, 2016c.

Sr. No. (1)	Sanskrit Plant Name (2)	Botanical Name & Family (3)	Cultivated (C)/ Wild (W) (4)	Habit (5)	Nativity & Reference (6)
13.	Kanchanara	<i>Bauhinia variegata</i> L. Caesalpiniaceae	C	Tree	China: Debnath & Debnath, 2017.
14.	Shigra	<i>Moringa oleifera</i> Lam. Moringaceae	C	Tree	America: Singh & Srivastava, 2000.
15.	Nirgundi	<i>Vitex negundo</i> L. Verbenaceae	W	Shrub	North China & Mongolia: Bailey, 1949.
16.	Japa	<i>Hibiscus rosasinensis</i> Linn. Malvaceae	C	Shrub	(i) China: Patil, 1995, 2003; Shetty & Singh, 1987. (ii) Sino-Japanese: Singh & Srivastava, 2000.
17.	Dadima	<i>Punica granatum</i> Linn. Punicaceae	C	Tree	(i) South Asia: Gaikwad & Garad, 2015. (ii) Afghanistan, Baluchistan & Persia: Patil, 2003; De Candolle, 1959.
18.	Beejapura	<i>Citrus medica</i> Linn. Rutaceae	C	Tree	China: Roxburgh, 1814; Patil, 2019a.
19.	Nimuka	<i>Citrus aurantifolia</i> (Christm. & Panz.) Swingle Rutaceae	C	Tree	(i) Malaya: Sinigh <i>et al.</i> , 2000a. (ii) Malaysia: Yadav & Sardesai, 2002. (iii) Probably Malaysia: Hewson & Thompson, 1993.

Sr. No. (1)	Sanskrit Plant Name (2)	Botanical Name & Family (3)	Cultivated (C)/ Wild (W) (4)	Habit (5)	Nativity & Reference (6)
20.	Amlika	<i>Tamarindus indica</i> Linn. Caesalpiniaceae	C	Tree	(i) Tropical America: Patil, 1990. (ii) Probably north-East Africa: Hewson & Thompson, 1993. (iii) Tropical Central Africa: Talbot, 1909-1991.
21.	Changeri	<i>Oxalis corniculata</i> Linn. Oxalidaceae	W	Herb	(i) Europe: Reddy, 2008. (ii) North America: Babu, 1977. (iii) South Europe: Rajagopal & Panigrahi, 1965. (iv) European-Mediterranean Region: Hewson & Thompson, 1993.
22.	Chukra	<i>Rumex nigricans</i> Hook.f. (Syn.R.Vesicarius Linn.) Polygonaceae	C	Herb	South Europe, Africa & South-East Asia: Naik, 1998.
23.	Pooga	<i>Areca catechu</i> Linn. Arecaceae	C	Tree	(i) Tropical Asia: Gaikwad & Gara, 2015. (ii) Indonesia Archipelago: Ahuja & Ahuja, 2011. (iii) Malaysia: Chaphekar <i>et al.</i> , 2007. (iv) Malaysian Archipelago: Shah, 2015.
24.	Kankola	<i>Piper cubeba</i> Linn. Piperaceae	W	Climber	Borneo, Sumatra, Java & Indonesia: Dandasena <i>et al.</i> , 2023.

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25.	Patha	<i>Cissampelos pareira</i> Linn. Menispermaceae	W	Climber	South America: Rajagopal & Panigrahi, 1965; Panda <i>et al.</i> , 2018.
26.	Tambui	<i>Piper betle</i> Linn. Piperaceae	C	Climber	(i) Bali & East Indies: Graf, 1980. (ii) Malaysian Archipelago: Shah, 2015. (iii) Malaysia: Hewson & Thompson, 1993.
27.	Indravaruni, Vishala	<i>Citrullus colocynthis</i> (L.) Schrad. Cucurbitaceae	W	Climber	West Africa: Sainkhedia, 2016.
28.	Aparajita	<i>Clitoria ternatea</i> Linn. Papilionaceae	W	Climber	Tropical America: Purselove, 1968.
29.	Varahi	<i>Dioscorea bulbifera</i> Linn. Dioscoreaceae	W	Climber	Asia (Excl. India): Stewart, 1972.
30.	Kapikacchu	<i>Mucuna prurens</i> (L.) DC. Papilionaceae	W	Climber	America: Singh & Nigam, 2017.
31.	Kullatha	<i>Macrotyloma uniflorum</i> (Lam.) Verdc. (Syn. <i>Dolichos biflorus</i> Linn.) Papilionaceae	C	Climber	South-East Asia: Patil, 2019b.
32.	Vanyakullatha	<i>Cassia abrus</i> Linn. Caesalpiniaceae	W	Herb	(i) Tropical America: Reddy, 2008; Wagh & Jain, 2018. (ii) Central America: Panda <i>et al.</i> , 2018.

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33.	Draksha	<i>Vitis vinifera</i> Linn. Vitaceae	C	Climber	(i) South-East Europe to West Indies: Singh <i>et al.</i> , 2000a. (ii) West Indies: Gaikwad & Garad, 2015. (iii) Asia (Excl. India) & Europe: Stewart, 1972. (iv) West Asia: Singh <i>et al.</i> , 2000b.
34.	Kushmanda	<i>Benincasa hispida</i> (Thunb.) Cogn. Cucurbitaceae	C	Climber	(i) Java: Patil, 1995, 2003. (ii) Japan & Java: De Candolle, 1959.
35.	Manjistha	<i>Rubia cordifolia</i> Linn. Rubiaceae	W	Climber	Asia (Excl. India) & Africa: Kaul, 1986.
36.	Jati	<i>Jasminum officinale</i> Linn. Oleaceae	C	Shrub	China: Yadav & Sardesai, 2002; Gaikwad & Garad, 2015.
37.	Madhurika	<i>Foeniculum vulgare</i> Mill. Apiaceae	C	Herb	(i) South Europe: Shetty & Singh, 1987. (ii) Mediterranean Region: Purseglove, 1968. (iii) Europe: Dar <i>et al.</i> , 2002.
38.	Jeeraka	<i>Cuminum cyminum</i> Linn. Apiaceae	C	Herb	(i) South Europe: Yadav & Sardesai, 2002. (ii) Mediterranean Region: Patil, 1995; Shetty & Singh, 1987.

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39.	Aranya-Jeeraka	<i>Vernonia anthelmintica</i> (L.) Willd. (Syn. <i>Centrantherum anthelminticum</i> Kuntze) Asteraceae	W	Herb	Malay Archipelago: Mitra & Mukherjee, 2012.
40.	Upakunchika	<i>Nigella sativa</i> Linn. Ranunculaceae	W	Herb	(i) Eastern Mediterranean Region (Levant): Deb, 1983. (ii) Europe: Bailey, 1949; Khurro <i>et al.</i> , 2007.
41.	Yavani	<i>Trachyspermum ammi</i> (Linn.) Sprague Apiaceae	C	Herb	(i) Africa: Patil, 1995; Shetty & Singh, 1987. (ii) South Europe: Yadav & Sardesai, 2002.
42.	Parasika-Yavani	<i>Hyoscyamus niger</i> Linn. Solanaceae	C	Herb	Southern England & South-East Ireland: Novak, 1996.
43.	Pama-Yarani	<i>Plectranthus amboinicus</i> (Lour.) Spr. (Syn. <i>Coleus amoinicus</i> Lour.) Lamiaceae	C	Herb	Java: Patil, 2003.
44.	Dhanyaka	<i>Coriandrum sativum</i> Linn. Apiaceae	C	Herb	(i) South Europe: Bailey, 1949; Gaikwad & Garad, 2015. (ii) Mediterranean Region: Shetty & Singh, 1987.

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45.	Methika	<i>Trigonella foenum-graecum</i> Linn. Papilionaceae	C	Herb	(i) South Europe: Patil, 1995; Shetty & Singh, 1987. (ii) Asia (Excl. India) & Europe: Kaul, 1986.
46.	Puthiha	<i>Mentha spicata</i> Linn. Lamiaceae	C	Herb	(i) Europe: Patil, 2003; Yadav & Sardesai, 2002. (ii) Europe & North America: Stewart, 1972. (iii) South-Western Europe: Wilson, 1994.
47.	Ushira	<i>Vetiveria zizanoides</i> Poaceae	W	Herb	China: Medakkar & Sharma, 2016c.
48.	Mushta	<i>Cyperus rotundus</i> Linn. Cyperaceae	W	Herb	(i) Tropical Africa: Debnath & Debnath, 2017. (ii) Europe: Panda <i>et al.</i> , 2018; Kaul, 1986.
49.	Vacha	<i>Acorus calamus</i> Linn. Araceae	C	Herb	(i) Southern Asia, Central & Western North America: Novak, 1966. (ii) Europe: Almeida, 2009.
50.	Sharpunka	<i>Tephrosia purpurea</i> Pers. Papilionaceae	W	Shrub	Pantropical: Singh & Srivastava, 2000.
51.	Swarnakshiri	<i>Argemone mexicana</i> Linn. Papaveraceae	W	Herb	(i) Central America: Reddy, 2008. (ii) America: Chandra Sekar, 2012. (iii) Mexico: Lesley, 2020. (iv) America: Sorenson, 2005.



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52.	Krishna-beeja	<i>Ipomoea nil</i> (Linn.) Roth Convolvulaceae	W	Climber	(i) North America: Wagh & Jain, 2015; Matthew, 1991. (ii) Tropical America, Asia & Africa: Almeida, 2001.
53.	Aswagola	<i>Plantago ovata</i> Forssk. Plantaginaceae	W	Herb	Eurasia: Narasimhan <i>et al.</i> , 2009.
54.	Arka	<i>Calotropis gigantea</i> (Linn.) R.Br. Asclepiadaaceae	W	Shrub	Tropical Africa: Reddy, 2008; Chandra Sekar, 2012.
55.	Snuhi	<i>Euphorbia ligularia</i> Roxb. (Syn.E.nerrifolia Linn.) Euphorbiaceae	W	Shrub	Africa: Naik, 1998.
56.	Eranda	<i>Ricinus communis</i> Linn. Euphorbiaceae	C	Tree	(i) Tropical Africa: Yadav & Sardesai, 2002. (ii) Africa: Bailey, 1949. (iii) Greece & North Africa: Almeida, 2003. (iv) North-East Tropical Africa: Matthew, 1991.
57.	Durva	<i>Cynodon dactylon</i> Pers. Poaceae	W	Herb	Tropical Africa: Debnath & Debnath, 2017; Wagh & Jain, 2015.
58.	Lajjalu	<i>Mimosa pudica</i> Linn. Mimosaceae	C	Shrub	(i) South America: Ridley, 1930. (ii) Brazil: Shetty & Singh, 1987; Chandra Sekar, 2012.

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59.	Gorakshaganja	<i>Aerva lanata</i> (L.) Juss. ex Schult. Amaranthaceae	W	Herb	(i) Madagascar: Sheikh & Dixit, 2017. (ii) Tropical America: Singh & Inam, 2015. (iii) Southern Asia & Malaysia: Hewson & Thompson, 1993.
60.	Madhuka	<i>Glycyrrhiza glabra</i> Linn. Papilionaceae	C	Herb	Arabia, Persian Gulf, Afghanistan, Asia Minor & Siberia: Sawant <i>et al.</i> , 2016.
61.	Mudgaparni	<i>Vigna trilobata</i> (L.) Verdec. (Syn. <i>Phaseolus trilobus</i> Ait.) Papilionaceae	W	Herb	Afro-Asian: Naik, 1998.
62.	Mashaparni	<i>Teramnus labialis</i> Spreng. Papilionaceae	W	Herb	Pantropical: Singh & Srivastava, 2000.
63.	Tila	<i>Sesamum orientale</i> L. (Syn. <i>S. indicum</i> Linn.) Pedaliaceae	C	Herb	Africa: Dogra, 2011.
64.	Garjara	<i>Daucus carota</i> Linn. Apiaceae	C	Herb	(i) Europe: Patil, 2003; Yadav & Sardesai, 2002. (ii) Europe & North Africa: Shetty & Singh, 1987. (iii) Europe & Temperate Asia: De Candolle, 1959.

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65.	Bhudughika	<i>Euphorbia thymifolia</i> Linn. Euphorbiaceae	W	Herb	Tropical America: Rajagopal & Panigrahi, 1965; Titiek <i>et al.</i> , 2015.
66.	Parpata	<i>Fumaria indica</i> (Haussk.) Pugseley Fumariaceae	W	Herb	(i) Pakistan & Afghanistan: Negi & Hajra, 2007. (ii) North Temperate Region: Rajagopal & Panigrahi, 1965.
67.	Punarnava	<i>Boerhavia repens</i> var. <i>diffusa</i> (Linn.) Hook.f. Nyctaginaceae	W	Herb	(i) South Africa: Struwig & Siebert, 2013. (ii) Tropical Africa: Panda <i>et al.</i> , 2018.
68.	Kumari	<i>Aloe vera</i> (L.) Burm.f. Liliaceae	C	Herb	(i) North America: Patil, 2003; Naik, 1998. (ii) America: Yadav & Sardesai: 2002. (iii) Mediterranean Region: Bailey, 1949.
69.	Mundi	<i>Sphaeranthus senegalensis</i> DC. Asteraceae	W	Herb	Africa: Kshirsagar, 2005.
70.	Kasamarda	<i>Cassia occidentalis</i> Linn. Caesalpiniaceae	W	Herb	South America: Patil, 2003; Chandra Sekar, 2012.
71.	Apamarga	<i>Achyranthes aspera</i> Linn Amarahntaceae	W	Herb	(i) Tropics: Medakkar & Sharma, 2016. (ii) South-East Africa and/or Africa: Singh <i>et al.</i> , 2015.
72.	Dronpushpi	<i>Leucas cephalotus</i> (Roth.) Spr. Lamiaceae	W	Herb	South Africa: Sheikh & Dixit, 2017.

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73.	Manaka	<i>Alocasia indica</i> (Lour.) Koch. Araceae	C	Herb	(i) Malay & China: Almeida, 2009. (ii) Malaya: Bailey, 1949.
74.	Mulaka	<i>Raphanus sativus</i> Linn. Brassicaceae	W	Herb	(i) Western Asia: Purseglove, 1968. (ii) China, Japan & West Asia: Voight, 1845. (iii) Europe & Temperate Asia: Patil, 1995. (iv) Europe: John, 1891.
75.	Tanduliya	<i>Amaranthus spinosus</i> Linn. Amranthaceae	W	Herb	(i) Tropical America: Patil, 1995; Chandra Sekar, 2012. (ii) Probably Tropical Region of New World: Hewson & Thompson, 1993.
76.	Ahiphena	<i>Papaver somniferum</i> L. Papaveraceae	C	Herb	(i) Mediterranean Countries & Middle East: Shetty & Singh, 1987. (ii) Europe: Stewart, 1972. (iii) Probably Eurasia: Wilson, 1994.
77.	Dhattura	<i>Datura metel</i> Linn. Solanaceae	C	Herb	Tropical America: Srivastava, 1964; Chandra Sekar, 2012.
78.	Bhanga	<i>Cannabis sativa</i> Linn. Cannabinaceae	W	Herb	(i) Central Asia: Chandra Sekar, 2012. (ii) Caspian Sea Region & Caucasus Mountains: Watt, 1908.

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79.	Kasha	<i>Saccharum spontaneum</i> Linn. Poaceae	W	Herb	Tropical West Asia: Reddy, 2008; Chandra Sekar, 2012.
80.	Darbha	<i>Imperata cylindrica</i> Beauv. Poaceae	W	Herb	(i) Tropical America: Reddy, 2008. (ii) Asia (Excl. India) & Europe: Kaul, 1986. (iii) Tropical Asia: Titiek <i>et al.</i> , 2015. (iv) Africa: Almeida, 2009.
81.	Rohisha	<i>Cymbopogon martini</i> (Roxb.) Wats. Poaceae	W	Herb	(i) Afro-Asian: Naik, 1998. (ii) Africa: Yadav & Sardesai, 2002.
82.	Bhutrana	<i>Hyptis suaveolens</i> (L.) Poit. Lamiaceae	W	Herb	Tropical America: Reddy, 2008; Patil, 2003; Naik, 1998.
83.	Chandrashura	<i>Lepidium sativum</i> L. Brassicaceae	C	Herb	(i) West Asia: Bailey, 1949. (ii) Asia (Excl. India): Stewart, 1972.
84.	Ashwabala	<i>Medicago sativa</i> L. Papilionaceae	C	Herb	(i) Africa & Europe: Dar <i>et al.</i> , 2002. (ii) West Temperate Asia: Patil, 1995, 2003. (iii) Western Asia & Mediterranean Region: Novak, 1966.
85.	Karpasi	<i>Gossypium herbaceum</i> L. Malvaceae	C	Herb	(i) Arabia & Asia Minor: Bailey, 1949. (ii) Africa & Asia: Purseglove, 1968.

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86.	Avartaki	<i>Cassia auriculata</i> Linn. Caesalpiniaceae	W	Shrub	Tropical America: Charan & Singh, 2018.
87.	Akashvalli	<i>Cassytha filiformis</i> Linn. Lauraceae	W	Climber	Tropical South America: Reena & David, 20230
88.	Matsyakshi	<i>Alternanthera sessilis</i> (Linn.) R.Br. Amaranthaceae	W	Herb	(i) Central America: Panda <i>et al.</i> , 2018. (ii) Tropical America: Veerasamy & Arumugan, 2014; Chandra Sekar, 2012.
89.	Tilaparni	<i>Cleome viscosa</i> Linn. Capparidaceae	W	Herb	(i) Tropical America: Reddy, 2008; Wagh & Jain, 2018. (ii) Central America: Panda <i>et al.</i> , 2018.
90.	Jalapippali	<i>Phyla nodiflora</i> Greene. (Syn. <i>Lippia nodiflora</i> Mich.) Verbenaceae	W	Herb	South America: Stewart, 1972.
91.	Jalakumbhi	<i>Pistia stratiotes</i> Linn. Araceae	W	Herb	(i) Tropical America: Reddy, 2008. (ii) South America: Lesley, 2020.
92.	Shaivala	<i>Ceratophyllum demersum</i> Linn. Ceratophyllaceae	W	Herb	(i) Tropical America: Chandra Sekar, 2012. (ii) America: Kak, 1990; Yadav & Sardesai, 2002. (iii) Asia & Tropical Africa: Almeida, 2003.

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93.	Barbari	<i>Ocimum basilicum</i> Linn. Lamiaceae	C	Shrub	(i) Persia: Pullaiah <i>et al.</i> , 2011. (ii) Afro-Asian: Patil, 2003.
94.	Saireyaka	<i>Barleria prionitis</i> Linn. Acanthaceae	C	Shrub	Tropical Africa: Medakkar & Sharma, 2016a.
95.	Irimed	<i>Vachellia farnesiana</i> (L.) Wight & Arn. (Syn. <i>Acacia farnesiana</i> Willd.) Mimosaceae	W	Tree	(i) Tropical South Africa: Reddy, 2008. (ii) Australia, Africa, Mexico & Texas: Graf, 1980. (iii) Australia: Chandra Sekar, 2012. (iv) Central America: Rania & Rim, 2021.
96.	Kinihi	<i>Albizia procera</i> (Roxb.) Benth. Mimosaceae	C	Tree	(i) South-East Asia & Australia: Singh <i>et al.</i> , 2015. (ii) Australia: Lesley, 2020.
97.	Palankya	<i>Spinacea oleracea</i> Linn. Polygonaceae	C	Herb	(i) Persia: De Candolle, 1959. (ii) Persia & Arabia: Jadhav, 2012. (iii) Asia (Excl. India): Dar <i>et al.</i> , 2002
98.	Brihaloni	<i>Portulaca oleracea</i> L. Brassicaceae	W	Herb	(i) Tropical South America: Reddy, 2008; Chandra Sekar, 2012. (ii) Africa & South America: Kaul, 1986. (iii) North Africa: Rajagopal & Panigrahi, 1965.

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99.	Kalambika	<i>Ipomoea aquatica</i> Forssk. Convolvulaceae	W	Climber	(i) China: Debnath & Debnath, 2017. (ii) Paleotropical: Singh & Srivastava, 2000.
100.	Lonika	<i>Portulaca quadrifida</i> Linn. Portulacaceae	W	Herb	Tropical South America: Reddy, 2008; Chandra Sekar, 2012.
101.	Patragobi	<i>Brassica oleraceae</i> var. <i>capitata</i> L. Linn. Brassicaceae	W	Herb	(i) Europe: Dar <i>et al.</i> , 2002. (ii) Western Europe & North Mediterranean Region: Chauhan, 1972.
102.	Chanchuka	<i>Corchorus aestuans</i> L. Tiliaceae	W	Herb	(i) America: Yadav & Sardesai, 2002. (ii) Tropical America: Patil, 2003. (iii) Central America: Panda <i>et al.</i> , 2018. (iv) South America: Singh & Inam, 2015.
103.	Pushpagdhi	<i>Brassica olercea</i> Linn. var. <i>botrytis</i> L. Portulacaceae	C	Herb	(i) Europe: Dar <i>et al.</i> , 2002. (ii) Greece To Great Britain, Cyperus, South Europe & Mediterranean Region: Chauhan, 1972.
104.	Shigru	<i>Moringa oleifera</i> Lam. Moringaceae	C	Tree	America: Singh & Srivastava, 2000.
105.	Agastha	<i>Sesbania grandiflora</i> (L.) Poir. Papilionaceae	C	Tree	Indonesia: Patil, 1995; Shetty & Singh, 1987.



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106.	Shalmalil	<i>Bombax ceiba</i> L. Bombacaceae	W	Tree	(i) America & Australia: Mukhopadhyay & Chakraverty, 2008. (ii) Brazil to Argentina: Singh <i>et al.</i> , 2015. (iii) Africa: Gaikwad & Garad, 2015.
107.	Alabu	<i>Lagenaria ciceraria</i> (Mol.) Standl. Cucurbitaceae	C	Climber	Africa: Singh & Nigam, 2017.
108.	Chinchida	<i>Trichosanthes anguina</i> Linn. Cucurbitaceae	C	Climber	Tropical Asia: John, 1891.
109.	Mahakoshataki	<i>Luffa cylindrica</i> (Linn.) M.J.Roem Cucurbitaceae	C	Climber	Egypt: John, 1891.
110.	Koshataki	<i>Luffa acutangula</i> (Linn.) Roxb. Cucurbitaceae	C	Climber	Tropical Asia: John, 1891.
111.	Bimbi	<i>Coccinia grandis</i> (L.) Voight Cucurbitaceae	W,C	Climber	Africa: Medakkar & Sharma, 2016a.
112.	Vartaka	<i>Solanum melongena</i> L. Solanaceae	C	Shrub	(i) East Indies: Singh, <i>et al.</i> , 2001. (ii) America: Gaikwad & Garad, 2015.
113.	Masha-shimbi	<i>Vigna unguiculata</i> (Linn.) Walp. Papilionaceae	C	Climber	(i) West Central Africa: Singh & Nigam, 2017. (ii) Central Africa: Patil, 2019a.

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114.	Gopa-shimpi	<i>Cyamopsis tetragonoloba</i> (Linn.) Taub. Papilionaceae	C	Herb	Africa: Patil, 2019a.
115.	Reeta-kushamanda	<i>Cucurbita maxima</i> Duch ex Lam. Cucurbitaceae	C	Climber	(i) South America: Dar <i>et al.</i> , 2002. (ii) Central America: Singh & Nigam, 2017.
116.	Rakta-vrintaka	<i>Lycopersicon lycopersicum</i> (L.) Karsten. Solanaceae	C	Herb	(i) Tropical America: Chauhan, 1972. (ii) Mexico & South America: Gaikwad & Garad, 2015. (iii) South America: Novak, 1996. (iv) Central South America: Yadav & Sardesai, 2002.
117.	Alooka	<i>Solanum tuberosum</i> Linn. Solanaceae	C	Climber	(i) America: Gaikwad & Garad. (ii) Andes: Purseglove, 1968. (iii) South America: Stewart, 1972. (iv) Mexico: Peru & Chile, Novak, 1966.
118.	Alooki	<i>Colocasia esculenta</i> (L.) Schott. Araceae	C	Shrub	(i) Brazil: Graf, 1980. (ii) Probably Tropical Asia: Lesley, 2020. (iii) Greece, Asia minor, Syria, Brazil & Jamaica: Almeida, 2009.
119.	Sitalooka	<i>Ipomoea batatas</i> (Linn.) Lam. Convolvulaceae	C	Climber	(i) Central America: Novak, 1966. (ii) America: Patil, 1998; Singh <i>et al.</i> , 1991.

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120.	Moolaka	<i>Raphanus sativus</i> Linn. Brassicaceae	C	Herb	(i) Western Asia: Purseglove, 1968. (ii) Europe: John, 1891. (iii) China, Japan & West Asia: Patil, 1995; Singh <i>et al.</i> , 1991.
121.	Garjara	<i>Daucus carota</i> Linn. Apiaceae	C	Herb	(i) Europe: Patil, 2003; Yadav & Sardesai, 2002. (ii) Europe & North Africa: Shetty & Singh, 1987. (iii) Europe & Temperate Asia: De Candolle, 1959.
122.	Shalayami	<i>Brassica rapa</i> Linn. Brassicaceae	C	Herb	(i) Central & Southern Europe: Purseglove, 1968. (ii) Eurasia: Gulden <i>et al.</i> , 2008.
123.	Amratarka	<i>Spondias pinnata</i> Linn. f. Anacardiaceae	C	Tree	Tropical Asia: Martin <i>et al.</i> , 1987.
124.	Naranga	<i>Citrus reticulata</i> Blanco Rutaceae	C	Tree	(i) Philippines: Almeida, 1996. (ii) Asia (Excl. India): Stewart, 1972.
125.	Tooda	<i>Morus alba</i> Linn. Moraceae	C	Tree	(i) China: Lesley, 2020. (ii) Probably China: Talbot, 1909-1911.
126.	Madhukarkati	<i>Citrus maxima</i> (Burm.) Merr. Rutaceae	C	Tree	(i) Malaysia: Debnath & Debnath, 2017. (ii) Probably South-East Asia: Hajra <i>et al.</i> , 1997.

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127.	Jambeera	<i>Citrus limon</i> (Linn.) Burm. f. Rutaceae	C	Tree	South-East Asia: Yadav & Sardesai, 2002.
128.	Nimbuka	<i>Citrus aurantifolia</i> (Christm. & Panz.) Swingle Rutaceae	C	Tree	(i) Malaya: Singh <i>et al.</i> , 2000. (ii) Guiana: Almeida, 1996. (iii) Malaysia: Yadav & Sardesai, 2002.
129.	Karmaranga	<i>Averrhoa carambola</i> L. Averrhoaceae	C	Tree	Tropical America: Gaikwad & Garad, 2015.
130.	Moshambi	<i>Cirus sinensis</i> (Linn.) Osb. Rutaceae	C	Tree	(i) China: Sinigh <i>et al.</i> , 2000. (ii) Asia (Ecal. India): Stewart, 1972. (iii) South China: Mukhopadhyay & Chakraverty, 2008.
131.	Phalgu	<i>Ficus carica</i> Linn. Moraceae	C	Tree	(i) Syria & Palestine: Naik, 1998. (ii) Mediterranean Region; Gaikwad & Garad, 2015. (iii) Europe: Dar <i>et al.</i> , 2002.
132.	Pishita	<i>Pistacia vera</i> L. Anacardiaceae	C	Tree	West Asia: Singh & Saxena, 2015.

Sr. No. (1)	Sanskrit Plant Name (2)	Botanical Name & Family (3)	Cultivated (C)/ Wild (W) (4)	Habit (5)	Nativity & Reference (6)
133.	Kaajitaka	<i>Anacardium occidentale</i> Linn. Anacardiaceae	C	Tree	(i) Tropical America: Patil, 1995, 2003. (ii) America: John, 1891. (iii) Brazil: Janick, 2013. (iv) America: Sorenson, 2005.
134.	Amaruta	<i>Psidium guajava</i> L. Myrtaceae	C	Tree	(i) Tropical America: Patil, 2003. (ii) Mexico: Shetty & Singh, 1987. (iii) Mexico, Central & South America & West Indies, Lesley, 2020.
135.	Erandkarkati	<i>Carica papaya</i> Linn. Caricaceae	C	Tree	(i) Tropical America: Patil, 2003; Bailey, 1949. (ii) West Indies & Central America: Shetty & Singh, 1987.
136.	Sitaphalam	<i>Annona squamosa</i> Linn. Annonaceae	W,C	Shrub	(i) Tropical America: Patil, 2003. (ii) West Indies: Talbot, 1909-1911.
137.	Litchi	<i>Nephelium chinensis</i> (Lour.) Almeida (Syn.Litchi chinensis Gaertn.) Sapindaceae	C	Tree	(i) China: Bailey, 1949; Negi & Hajra, 2007. (ii) South China: Talbot, 1909-1911.
138.	Badara	<i>Ziziphus mauritiana</i> Lam. Rhamnaceae	C	Tree	(i) Tropics & Warm Subtropics: Martin <i>et al.</i> , 1987. (ii) Australia: Veerasamy & Arumugan, 2014.

Sr. No. (1)	Sanskrit Plant Name (2)	Botanical Name & Family (3)	Cultivated (C)/ Wild (W) (4)	Habit (5)	Nativity & Reference (6)
139.	Kalindana	<i>Citrullus lanatus</i> (Thunb.) Mats. & Nakai Cucurbitaceae	C	Climber	(i) South Africa: Patil, 2003. (ii) Tropical Africa: Shetty & Singh, 1987. (iii) Africa: Stewart, 1972.
140.	Kharbuja	<i>Cucumis melo</i> L. var. <i>melo</i> Cucurbitaceae	C	Climber	(i) Asia (Excl. India): Stewart, 1972. (ii) Asia: Singh & Nigam, 2017.
141.	Tala	<i>Borassus flabellifer</i> Linn. Arecaceae	C	Tree	Tropical Asia: Reddy. 2008; Cooke, 1958. Chadra Sekar, 2012.
142.	Prachinmalaka	<i>Flacourtia jangomas</i> (Lour.) Raeusch. Flacourtiaceae	C	Tree	Tropical Asia: Martin <i>et al.</i> , 1987.
143.	Lavali	<i>Phyllanthus acidus</i> (L.) K.Skeels [Syn. <i>Cicca acida</i> (Linn.) Merr.] Euphorbiaceae	C	Tree	(i) Malay Islands & Madagascar: Patil, 2003. (ii) North East Brazil: Matthew, 1991.
144.	Yava	<i>Hordeum vulgare</i> L. Poaceae	C	Herb	(i) Ethiopia: Fekadu <i>et al.</i> , 2021a. (ii) Fertile Crescent: Badr <i>et al.</i> , 2000.
145.	Godhuma	<i>Triticum aestivum</i> L. Poaceae	C	Herb	Fertile Crescent: Singh & Nigam, 2017.
146.	Madhulika	<i>Eleusine coracana</i> (L.) Gaertn. Poaceae	C	Herb	(i) Africa: Singh & Nigam, 2017. (ii) Tropical Africa: Gaikwad & Garad, 2015.

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147.	Kangu	<i>Setaria italica</i> (Linn.) Beauv. Poaceae	C	Herb	(i) Near East (China): Singh & Nigam, 2017. (ii) East Asia: Naik, 1998.
148.	Chinaka	<i>Panicum miliaceum</i> Linn. Poaceae	C	Herb	(i) Asia (Excl. India): Kaul, 1986. (ii) Transcaucasia & China: Singh & Nigam, 2017.
149.	Kodrava	<i>Paspalum scrobiculatum</i> Linn. Poaceae	W,C	Herb	Tropical Africa: Singh & Nigam, 2017.
150.	Gaveduka	<i>Coix lachrymba-jobi</i> Linn. Poaceae	W	Herb	Tropical Asia: Singh <i>et al.</i> , 2015.
151.	Rajashimbi	<i>Glycine max</i> (L.) Merr. Papilionaceae	C	Herb	(i) South-East Asia: Shetty & Singh, 1987. (ii) Asia (Excl. India): Dar <i>et al.</i> , 2002.
152.	Masura	<i>Lens vularis</i> Medic. Papilionaceae	C	Herb	(i) Central Europe, Mediterranean Region & West Asia: Patil, 1995. (ii) Mediterranean Region & West Asia: Shetty & Singh, 1987.
153.	Adhaki	<i>Cajanus cajan</i> (Linn.) Millsp. Papilionaceae	C	Shrub	Tropical Africa: De Candolle, 1959; Gaikwad & Garad, 2015.
154.	Chanaka	<i>Cicer arietinum</i> L. Papilionaceae	C	Herb	(i) Mediterranean Region: Shetty & Singh, 1987. (ii) South Europe: Patil, 1990.

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155.	Kalaya	<i>Lathyrus sativus</i> Linn. Papilionaceae	C	Herb	(i) Balkan Peninsula: Kislev, 1989. (ii) Southern Europe & Western Asia:
156.	Atasi	<i>Linum usitatissimum</i> L. Linaceae	C	Herb	(i) Mediterranean Region: De Candolle, 1959. (ii) Europe: Dar <i>et al.</i> , 2002.
157.	Rajika	<i>Brassica juncea</i> L. Brassicaceae	C	Herb	(i) Middle East & Neighboring Region: Prakash, 1980. (ii) Eastern Europe & China: Spect & Dierichson, 2001. (iii) Tibet: Medakkar & Sharma 2016.
158.	Kusumba	<i>Carthamus tinctorius</i> Linn. Asteraceae	C	Herb	(i) West Asia: Yadav & Sardesai, 2002. (ii) South-West Asia; Patil, 2003; Cooke, 1958.
159.	Japa	<i>Hibiscus rosasinensis</i> L. Malvaceae	C	Shrub	(i) China: Patil, 1995, 2003. (ii) Sino-Japanese: Singh & Srivastava, 2000.