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RHMD e-Bulletin

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IN-HOUSE QUARTERLY BULLETIN

Envisaging the usage of Indian Raw Materials

Volume 6

No. 3

July-September 2022

NIScPR owes its existence to this appreciation of the integral role of science communication in empowering citizens with scientific information, inculcating scientific attitude and promoting research and development. When we talk about biodiversity of India, this huge reservoir of diversity one cannot study or visit in his or her active life time. Here comes the importance of Herbaria and museums to communicate information on life sciences. NIScPR, situated in the heart of the country is maintaining a Herbarium and Museum since 1978 which houses preserved and poisoned samples of various species in the form of herbarium sheets and carpological samples of economic and traditional medicinal plants, animals and samples of rocks and minerals collected from throughout India.

RHMD was planned to represent economic biodiversity dealt with in The Wealth of India- An Encyclopedia of Indian Raw Materials and to cater to the academic and scientific needs. The acronym RHMD (Raw Materials Herbarium & Museum, Delhi) is included in INDEX HERBARIORUM, a constituent establishment of the International Association of Plant Taxonomy (IAPT), New York Botanic Garden, New York, USA. Presently RHMD houses authentic samples of about 8500 plant specimens; 190 zoological specimens; 207 mineral samples; and more than 3700 carpological samples (crude drugs like roots, seeds, bark, wood, flowers, etc.). To make the herbarium more comprehensive and viable, preservation of herbarium specimens and carpological samples is also carried out as and when new species is received or collected.

Medicinal plants have been in use since time immemorial and now in this era of modern medicines plant products are extensively used in household remedies, nutraceuticals and cosmetics. But due to the lack of the true identity and good quality of herbs, substitutes and adulterants as well as synonymous plants are sometimes used. NIScPR, a well equipped institute with herbal garden and library (National Science Library) with vast collection of literature in the form of its own publication,

The Wealth of India and various Life Science Research journals and RHMD, etc. is actively supporting various research programmes on herbal drugs.

For the development of herbal drug a multi-dimensional approach to research activities including survey of literature, collection and cultivation of medicinal plants, isolation of active principles, drug authentication, drug standardization, pharmacological studies, clinical research, etc. is essential. About 90% of plants are collected and procured from wild habitat therefore, before approaching a research lab from fields, identification or authentication and correct nomenclature is required because there are too many names (trade names, English and vernacular names) to refer to a botanical scientific name of single species/crude drug and a single name is referred to more than one plant species or crude drug is a common practice in trade and by non-botanist (taxonomist) which often leads to confusion and instigate fraudulent intention to earn more money. In some published literature it is not possible to match common names with scientific names. Adulteration and substitution in Ayurvedic, Unani and herbal medicines manufacturing is another matter of concern. Other than morphological identification various pharmacognostic, phytochemical and molecular tools and techniques are also useful as supportive tools for assessment of genuine plant material.

Correct identification and good quality of raw drugs are important to achieve safe and effective therapeutic potency, efficacy and reproducible quality of herbal medicines. RHMD, a priceless treasure offers consultancy on the authentication of plants and crude drug samples since January 1994 against payment with the objective of helping students, research scientists, customs, foresters, cultivators and pharmaceutical industries especially for identification and check adulteration in herbal drugs in dry or fresh form. This involves identification of crude drug samples by studying their macroscopic features, organoleptic properties and comparison with genuine voucher specimens housed in RHMD along with related literature. A large number of visitors comprising foreign delegates, NGO(s), students and teachers of schools and colleges, researchers, scientists, entrepreneurs, traders, crude drug dealers and others visit this herbarium and museum to upgrade their knowledge. Botanical drugs comprising, root, stem, leaves, flower, fruit, seed, root & rhizome, stem & leaves, fruit & seed, stem bark, root bark, heartwood, whole plant, whole plant without root, exudates, gum/resin, tuber and bulb, fibers have been classified on the most scientific and modern lines.

Our Strength

- More than three decades of valuable collection, preserved and protected by internationally approved techniques to protect them from moisture, fungus and pests.
- Maintaining both collection of crude drugs and herbarium sheets.
- More than two decades long experience in providing consultancy services.
- Empowering our clients with the prerequisite scientific /botanical knowledge.
- Help researchers to locate habitat and distribution of species in wild.
- Provide correct nomenclature and possible synonyms, common vernacular and English names.

Objectives and contents of RHMD-e-Bulletin

- Digitization of the details of samples including photograph, botanical names, vernacular/English names, family, plant part, authentication certificate number, name and address (with E-mail and contact number) of the users of our consultancy services for reference in future.
- The data to be published in this bulletin shall reduce the requirement of storing space and damage of samples received for authentication.
- The published digital image of the crude drugs authenticated by RHMD shall be available in open access for posterity.
- Through this database NIScPR will connect to students, industry, researchers and traditional medicine dealers, exporters for societal impact of authentic collections.
- About 90% herbs are collected by untrained people from wild habitats. Due to variation in habit and habitat species exhibits variation in their morphology of aerial parts and roots and rhizomes also. The situation becomes more difficult in the dried samples appearance, smell and colour. Considering these factors an attempt is being made here to publish in each issue details of one freshly collected plant, its parts vis-à-vis their dried form from CSIR–NIScPR campus (in first phase) for the purpose of awareness of differences in the morphology of fresh and dry materials and to reduce ambiguity about the identity and name of some species. It shall help in the collection from fields as well as dried sample of the particular species from market.
- This illustrated initiative is a gesture to help potential researchers and traders in identification of raw drugs.
- The data created by authentication of crude drugs shall be uploaded on CSIR-NIScPR website which could be accessed by various user groups free of cost.
- It would be a user-friendly image library and virtual repository of raw herbal medicines.
- This bulletin would act as referral source for collection and purchase of correct raw drugs.
- Number of pages will vary as per the received samples per month and the data to be published on for PLANT OF THE MONTH from NIScPR campus.

IN THIS ISSUE: Vol. 6, No. 3, 2022, Authentication certificate number, Botanical name /common names, Family, plant part, Name and Address of Researchers/Pharmaceutical Co./Others and Image of the samples received/authenticated during the months of April – June 2022 have been included to display on NIScPR website: <https://niscpr.res.in>

Previous issues may be visited through following link: <https://niscpr.res.in/periodicals/rhmdebuletin>

JULY 2022

Authenticati on certificate number/Date	Botanical Name, common names and Family	Plant Part (s)	Name and Address of Researcher/ Pharmaceutical Co./Others	Images
NISCAIR/R HMD/Consu lt/2022/4155 -56 7/07/2022	<i>Prosopis cineraria</i> (L.) Druce syn. <i>Adenanthera</i> <i>aculeata</i> Roxb., <i>Prosopis spicigera</i> L., <i>Mimosa</i> <i>cineraria</i> L. Shami, Khejri Family: Fabaceae	Leaves	Mr. Rajaneesh Kumar Chaudhary Amity University, Lucknow-226028	
NISCAIR/R HMD/Consu lt/2021/4157 -58 5/7/2022	<i>Celosia cristata</i> L. syn. <i>Celosia</i> <i>argentea</i> var. <i>cristata</i> (L.) Kuntze Lalmurga, The Garden Cockscomb Family:	Flowers	Ms. Manita Demla Jagannath University Jaipur, Rajasthan	
NISCAIR/R HMD/Consu lt/2021/4158 -59 13/7/2022	<i>Tamarindus indica</i> L. Tamarind, Imli, Amli Family: Caesalpinaceae	Seeds (along with seed coats)	Dr. Suja Rani S. Department of Pharmacology and Toxicology College of Veterinary and Animal Sciences Mannuthy, P.O., Trissur-680 651	
NISCAIR/R HMD/Consu lt/2021/4159 -60 19/7/2022	<i>Erythrina</i> <i>variegata</i> L. Indian Coral Tree, Mandara. Family: Fabaceae	Stem bark	Dr. Bibu John Kariyil Department of Veterinary Pharmacology & Toxicology College of Veterinary & Animal Sciences Mannuthy-680651	

NISCAIR/R HMD/Consu lt/2021/4160 -61-1 13/7/2022	<i>Aegle marmelos</i> Correa ex Roxb. Bael, Bilva Family: Rutaceae	Dried fruits pulp	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4160 -61-2 13/7/2022	<i>Aegle marmelos</i> Correa ex Roxb. Bael, Bilva Family: Rutaceae	Dried leaves	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4160 -61-3 13/7/2022	<i>Aegle marmelos</i> Correa ex Roxb. Bael, Bilva Family: Rutaceae	Dried twigs	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4160 -61-4 13/7/2022	<i>Aegle marmelos</i> Correa ex Roxb. Bael, Bilva Family: Rutaceae	Stem bark pieces	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4160 -61-5 13/7/2022	<i>Acalypha indica</i> L. Indian Acalypha, Khokli, Kuppi Family: Euphorbiaceae	Dried whole plant	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	

NISCAIR/R HMD/Consu lt/2021/4160 -61-6 13/7/2022	<i>Cinnamomum tamala</i> Nees & Eberm. Indian Bay Leaf, Tejpatta, Tejptra Family: Lauraceae	Dried leaves	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4160 -61-7 13/7/2022	<i>Glycyrrhiza glabra</i> L. Yasti, Mulethi, Yashtimadhu, Liquorice Family: Fabaceae	Dried roots	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4160 -61-8 13/7/2022	<i>Zingiber officinale</i> Rosc. Ginger, Sonth Family: Zingiberaceae	Dried Rhizome	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4160 -61-9 13/7/2022	<i>Phyllanthus emblica</i> L. syn. <i>Embolica officinalis</i> Gaertn. Amla, Anvala, Embelic Myrobalan Family: Euphorbiaceae	Dried fruits	Dr. V. Kalaiselvan Phytopharmaceuticals Division Indian Pharmacopoeia Commission (MOHFW, GOI)	
NISCAIR/R HMD/Consu lt/2021/4161 -62 17/7/2022	<i>Citrus limetta</i> Risso Sweet Lemon, Sweet Lime Family: Rutaceae	Fruit peels	Ms. Megha Mittal Department of Pharmacology K. R. Mangalam University Sohna Road, Gurugram Delhi-NCR-122103	

NISCAIR/R HMD/Consu lt/2021/4162 -63 17/7/2022	<i>Withania somnifera</i> (L.) Dunal Ashwagandha, Punir, Asgandh Family: Solanaceae	Roots	Mr. Kaushal Khatana Department of Pharmacology K. R. Mangalam University Sohna Road, Gurugram Delhi-NCR-122103	
NISCAIR/R HMD/Consu lt/2021/4163 -64 17/7/2022	<i>Carissa carandus</i> L. Karaunda, Christ's thorn Family: Apocynaceae	Leaves	Ms. Mahika Jain Department of Pharmacology K. R. Mangalam University Sohna Road, Gurugram Delhi-NCR-122103	
NISCAIR/R HMD/Consu lt/2021/4165 -66-4 21/7/2022	<i>Nardostachys grandiflora</i> DC. syn. <i>Nardostachys jatamansi</i> DC. Jatamansi, Spike Nard, Balchar. Family: Valerianaceae	Rhizomes	Multani Pharmaceuticals Ltd. Khasra No.37, Makkanpur Mehmood Alam Tehsil- Bhagwanpur Haridwar-247661	
NISCAIR/R HMD/Consu lt/2021/4165 -66-5 21/7/2022	<i>Vitis vinifera</i> L. Kali Draksha Family: Vitaceae	Seedsless mature berries (black Fruit cultivar)	Multani Pharmaceuticals Ltd. Khasra No.37, Makkanpur Mehmood Alam Tehsil- Bhagwanpur Haridwar-247661	
NIScPR/RH MD/Consult /2022/4166- 67 27/7/2022	<i>Cymbopogon citratus</i> (DC.) Stapf syn. <i>Andropogon citratus</i> DC. Agyaghas, Agin Ghas, Gandhatrina, West Indian Lemongrass Family: Poaceae	Leaves	Mr. Nihal University School of Pharmaceutical Sciences Rayat Bahra University Mohali, Punjab- 140301	

AUGUST 2022

NIScPR/RH MD/Consult /2022/4167- 68-1 2/08/2022	<i>Bacopa monnieri</i> (L.) Wettst. Brahmi, Nir Brahmi, Jalneem, Indian Pennywort Family: Scrophulariaceae	Vegetative whole plant	Ms. Gauri University School of Pharmaceutical Sciences, Rayat Bahra, University VPO Sahauran, Teh & Dist. Kharar Punjab-140103	
NIScPR/RH MD/Consult /2022/4167- 68-2 2/08/2022	<i>Cynodon dactylon</i> Pers. Bermuda grass, Durva, Dhuh Grass, Harijali Family: Poaceae	Aerial parts	Ms. Gauri University School of Pharmaceutical Sciences, Rayat Bahra, University VPO Sahauran, Teh & Dist. Kharar Punjab-140103	
NIScPR/RH MD/Consult /2022/4167- 68-3 2/08/2022	<i>Withania somnifera</i> (L.) Dunal Ashwagandha, Punir, Asgandh Family: Solanaceae	Roots	Ms. Gauri University School of Pharmaceutical Sciences, Rayat Bahra, University VPO Sahauran, Teh & Dist. Kharar Punjab-140103	
NIScPR/RH MD/Consult /2022/4168- 69 2/08/2022	<i>Nyctanthes arbor-tristis</i> L. Coral Jasmine, Harsingar, Night Flowering Jasmine, Parijat Family: Oleaceae	Leaves	Ms. Daya Luxmi Rayat Bahra University Kharar, Mohali Punjab-140301	

NIScPR/RH MD/Consult /2022/4169- 70-1 3/08/2022	<i>Cymbopogon citratus</i> (DC.) Stapf syn. <i>Andropogon citratus</i> DC. Agyaghas, Agin Ghas, Gandhatrina, West Indian Lemongrass Family: Poaceae	Leaves	Er. Harpreet Singh Rayat Bahra University Kharar, Mohali Punjab-140301	
NIScPR/RH MD/Consult /2022/4169- 70-3 3/08/2022	<i>Ficus benghalensis</i> L. Banyan Tree, Bar, Bargad, Vat Family: Moraceae	Dried pieces of aerial roots	Er. Harpreet Singh Rayat Bahra University Kharar, Mohali Punjab-140301	
NIScPR/RH MD/Consult /2022/4175- 76 4/08/2022	<i>Delonix regia</i> (Bojer ex Hook.) Raf. syn. <i>Caesalpinia regia</i> (Bojer ex Hook.) D. Dietr., <i>Poinciana regia</i> Bojer ex Hook. Gulmohar, Flamboyant Flame Tree Family: Caesalpiniaceae	Fresh aerial parts	Mrs. Kamica Amity Institute of Pharmacy Gurugram-123106	
NIScPR/RH MD/Consult /2022/4176- 77 08/08/2022	<i>Polygonatum sibiricum</i> F. Delaroche syn. <i>Convallaria sibirica</i> (Redoute) Ker, <i>Polygonatum chinense</i> Kunth Siberian Solomon's Seal Family: Liliaceae	Roots	Ms. Kirandeep Kaur Rayat Bahra University Sahauran, Distt. Mohali-140301	

NIScPR/RH MD/Consult /2022/4177- 78-1 11/08/2022	<i>Semecarpus anacardium</i> L. f. Bhallataka, Baladur, Bhilawa, Marking nut, Oriental Cashew Family: Anacardiaceae	Dried nuts	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	
NIScPR/RH MD/Consult /2022/4177- 78-2 11/08/2022	<i>Zingiber officinale</i> Rosc. Sonth, Shunthi, Ginger Family: Zingiberaceae	Dried rhizomes	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	
NIScPR/RH MD/Consult /2022/4177- 78-3 11/08/2022	<i>Piper nigrum</i> L. Black Pepper, Golemiricha, Kali Mirch Family: Piperaceae	Unripe fruits	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	
NIScPR/RH MD/Consult /2022/4177- 78-4 11/08/2022	<i>Piper longum</i> L. Pipal, Pippali (Chota Pipal variety) Family: Piperaceae	Fruiting spikes	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	
NIScPR/RH MD/Consult /2022/4177- 78-5 11/08/2022	<i>Terminalia bellirica</i> Roxb. Bahera, Belliric Myrobalan, Bibhitak Family: Combretaceae	Dried fruits peels (Chilka)	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	

NIScPR/RH MD/Consult /2022/4177- 78-6 11/08/2022	<i>Abrus precatorius</i> L. Gunja, Gunghchi, Jequirty seed, Rattee, Rosary Pea Family: Fabaceae	Seeds of red variety	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	
NIScPR/RH MD/Consult /2022/4177- 78-7 11/08/2022	<i>Phyllanthus emblica</i> L. syn. <i>Embolica officinalis</i> Gaertn. Amalaki, Amla, Anvala, Embelic Myrobalan Family: Euphorbiaceae	Dried fruits	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	
NIScPR/RH MD/Consult /2022/4177- 78-8 11/08/2022	<i>Terminalia chebula</i> Retz. Harad, Haritaki, Chebulic Myrobalan Family: Combretaceae	Fruits	Dr. Pankaj Kumar Singh Shri N. P. A. Govt. Ayurvedic College G. E. Road Raipur- 492001, (C.G.)	
NIScPR/RH MD/Consult /2022/4178- 79-1 11/08/2022	<i>Curcuma longa</i> L. syn. <i>Curcuma domestica</i> Valetton Haldi, Haridra, Turmeric. Family: Zingiberaceae	Leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Karnal, Haryana 132001	

NIScPR/RH MD/Consult /2022/4178- 79-2 11/08/2022	<i>Mangifera indica</i> L. Aam, Amra, Mango Family: Anacardiaceae	Leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Karnal, Haryana 132001	
NIScPR/RH MD/Consult /2022/4178- 79-3 11/08/2022	<i>Mentha piperita</i> L. Peppermint Family: Lamiaceae	Leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Karnal, Haryana 132001	
NIScPR/RH MD/Consult /2022/4178- 79-4 11/08/2022	<i>Moringa oleifera</i> Lam. syn. <i>Moringa</i> <i>pterygosperma</i> Gaertn. Drumstick Tree, Horse Radish Tree, Sainjna Family: Moringaceae	Leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Karnal, Haryana 132001	
NIScPR/RH MD/Consult /2022/4178- 79-5 11/08/2022	<i>Ocimum sanctum</i> L. Tulsi, Sacred Basil, Holy Basil. Family: Lamiaceae	Leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Karnal, Haryana 132001	
NIScPR/RH MD/Consult /2022/4178- 79-6 11/08/2022	<i>Tinospora</i> <i>cordifolia</i> (Willd.) Hook. f. & Thoms. Giloy, Giloe, Amrita, Golancho Family: Menispermaceae	Leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Karnal, Haryana 132001	

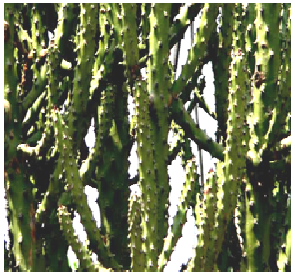
NIScPR/RH MD/Consult /2022/4178- 79-8 11/08/2022	<i>Syzygium cumini</i> (L.) Skeels Black Plum, Java Plum, Jamun, Jambul Family: Myrtaceae	Leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Karnal, Haryana 132001	
NIScPR/RH MD/Consult /2022/4179- 80 11/08/2022	<i>Tabernaemontana divaricata</i> (L.) R. Br. ex Roem. & Schult. syn. <i>Ervatamia coronaria</i> (Jacq.) Stapf., <i>Nerium divaricatum</i> L. Chandni, East Indian Rosebay Family: Apocynaceae	Fresh flowering twig	Mr. Vasudev Biswas Dept. of Pharmaceutical Sci./Pharmacognosy DPSR University Campus New Delhi-110017	
NIScPR/RH MD/Consult /2022/4180- 81 12/08/2022	<i>Ficus geniculata</i> Kurz Phutkal, Putkal Family: Moraceae	Leaves	Ms. Zeba Perween University Dept. of Botany Ranchi University, Ranchi	
NIScPR/RH MD/Consult /2022/4181- 82 12/08/2022	<i>Pyrus pashia</i> Buch.-Ham. ex D. Don syn. <i>Malus pashia</i> Wenz. Mahal Mol, Kainth, Indian Wild Pear Family: Rosaceae	Fruits	Ms. Komal Baddi University of Emerging Sciences & Technology Makhnumajra, Distt. Solan Tehsil Baddi, Himachal Pradesh- 173205	

NIScPR/RH MD/Consult /2022/4182- 83-1 12/08/2022	<i>Boerhaavia diffusa</i> L. Punarnava, Spreading Hog- Weed, Sant Family: Nyctaginaceae	Leaves	Dr. Shiwakshi Sharma Dept. of Rasa Shastra Evam Bhaishajya Kalpana Faculty of Ayurveda IMS, Banaras Hindu University Varanasi-221005	
NIScPR/RH MD/Consult /2022/4182- 83-2 12/08/2022	<i>Gymnema sylvestre</i> (Retz.) Schult. Gudmar, Gurmar, Madhu-Nashni, Medhasing Family: Asclepiadaceae	Leaves	Dr. Shiwakshi Sharma Dept. of Rasa Shastra Evam Bhaishajya Kalpana Faculty of Ayurveda IMS, Banaras Hindu University Varanasi-221005	
NIScPR/RH MD/Consult /2022/4182- 83-3 12/08/2022	<i>Lawsonia inermis</i> L. Hina, Henna, Egyptian Privet, Mehndi. Family: Lythraceae	Leaves	Dr. Shiwakshi Sharma Dept. of Rasa Shastra Evam Bhaishajya Kalpana Faculty of Ayurveda IMS, Banaras Hindu University Varanasi-221005	
NIScPR/RH MD/Consult /2022/4183- 84 12/08/2022	<i>Hedychium</i> <i>spicatum</i> Buch.- Ham. ex Smith Shati, Shathi, Kapur Kachri, Spiked Ginger Root Family: Zingiberaceae	Rhizome pieces	Dr. Vishal Kumar Dept. of Dravyaguna Vigyan All India Institute of Ayurveda New Delhi-110 076	

NISCAIR/RHMD/Consult/2020/4184-85 24/8/2022	<i>Pedaliu murex</i> L. Bada-Gokharu, Bara-Gokhru, Large Caltrops Family: Pedaliaceae	Fruits	Ms. Faiza Jamia Hamdard (SUMER) Hamdard Nagar New Delhi-110062	
NIScPR/RHMD/Consult/2022/4185-86 23/08/2022	<i>Bombax ceiba</i> L. syn. <i>Salmalia malabarica</i> (DC.) Schott & Endl., <i>Bombax malabaricum</i> DC. Silkcotton Tree, Semul, Shembal Family: Bombacaceae	Leaves	Ms. Riya Thakur Baddi University of Emerging Sciences & Technology Makhnumajra, Distt. Baddi-173205	
NIScPR/RHMD/Consult/2022/4186-87-1 23/08/2022	<i>Anethum graveolens</i> L. Sowa, Dill Family: Apiaceae	Fruits	Mr. Hiren V. Trivedi Parul University Applied Science Food & Nutrition Waghodia, Vadodara, Gujarat	
NIScPR/RHMD/Consult/2022/4186-87-3 23/08/2022	<i>Foeniculum vulgare</i> Mill. Saunf, Fennel, Badiyan. Family: Apiaceae	Fruits	Mr. Hiren V. Trivedi Parul University Applied Science Food & Nutrition Waghodia, Vadodara, Gujarat	

NIScPR/RH MD/Consult /2022/4186- 87-4 23/08/2022	<i>Trigonella foenum-graecum</i> L. Methi, Fenugreek Family: Fabaceae	Seeds	Mr. Hiren V. Trivedi Parul University Applied Science Food & Nutrition Waghodia, Vadodara, Gujarat	
NIScPR/RH MD/Consult /2022/4186- 87-5 23/08/2022	<i>Withania somnifera</i> Dunal Ashwagandha, Asgandh Family: Solanaceae	Roots	Mr. Hiren V. Trivedi Parul University Applied Science Food & Nutrition Waghodia, Vadodara, Gujarat	
NIScPR/RH MD/Consult /2022/4188- 89-1 30/08/2022	<i>Asparagus racemosus</i> Willd. Satavar, Satavari, Shatavri, Satmooli Family: Liliaceae	Roots	Ms. Neha Singh Bhaskaracharya College of Applied Sciences Delhi University Sector 2, Dwarka, New Delhi-110075	
NIScPR/RH MD/Consult /2022/4188- 89-2 30/08/2022	<i>Withania somnifera</i> (L.) Dunal which is commonly known as Asgandh, Ashwagandha, Punir Family: Solanaceae	Roots	Ms. Neha Singh Bhaskaracharya College of Applied Sciences Delhi University Sector 2, Dwarka, New Delhi-110075	
NIScPR/RH MD/Consult /2022/4188- 89-3 30/08/2022	<i>Moringa oleifera</i> Lam. Drumstick Tree, Horse Radish Tree, Sainjna Family: Moringaceae	Leaves	Ms. Neha Singh Bhaskaracharya College of Applied Sciences Delhi University Sector 2, Dwarka, New Delhi-110075	

NIScPR/RH MD/Consult /2022/4189- 90 30/08/2022	<i>Myrica esculenta</i> Buch.-Ham. syn. <i>Myrica nagi</i> Hook. f. Box Myrtle, Kafal, Katphal, Kaiphal Family: Myricaceae	Leaves	Mr. Lovish Sharma Baddi University of Emerging Sciences & Technology Makhnumajra, Distt. Baddi H P-173205	
SEPTEMBER 2022				
NIScPR/RH MD/Consult /2022/4192- 93-1 27/09/2022	<i>Bauhinia tomentosa</i> L. Yellow Bauhinia, Peet Kachnar Family: Caesalpiniaceae	Leaves	Ms. Shikha Kumari Baddi University of Emerging Sciences & Technology Baddi, Himachal Pradesh	
NIScPR/RH MD/Consult /2022/4192- 93-2 27/09/2022	<i>Bauhinia tomentosa</i> L. Yellow Bauhinia, Peet Kachnar Family:	Flowers	Ms. Shikha Kumari Baddi University of Emerging Sciences & Technology Baddi, Himachal Pradesh	
NIScPR/RH MD/Consult /2022/4193- 94 13/09/2022	<i>Crinum latifolium</i> L. Sudarshan, Milk and Wine Lily, Pink- striped trumpet lily Family: Amaryllidaceae	Leaves	Mr. Ankur Sharma School of Medical & Allied Sciences G. D. Goenka University Gurugram, Haryana	

NIScPR/RH MD/Consult /2022/4194- 95 21/09/2022	<i>Asparagus racemosus</i> Willd. Satawar, Shatavari, Satmooli. Family: Liliaceae	Roots	Mr. Gopi Mareedu Radiant Research Services Pvt. Ltd. Plot No. 99/A, 8 th Main Road 3 rd Phase Peenya Industrial Area Bengaluru	
NIScPR/RH MD/Consult /2022/4195- 96 27/09/2022	<i>Spondias pinnata</i> (L. f.) Kurz syn. <i>Spondias mangifera</i> Willd., <i>Spondias</i> <i>amara</i> Lam. Amra, Hog plum, Wild or forest mango Family: Anacardiaceae	Leaves	Ms. Zeba Perween Farzand Nagar Neori Post-Neori, Vikas Ranchi	
NIScPR/RH MD/Consult /2022/4196- 97 28/09/2022	<i>Plectranthus</i> <i>amboinicus</i> (Lour.) Spreng. syn. <i>Coleus</i> <i>amboinicus</i> Lour., <i>Coleus aromaticus</i> Benth. Ajowan Patta, Indian Borage Family: Lamiaceae	Fresh leaves	Mr. Vaibhav Bharat Rokade ICAR-National Dairy Research Institute Krishna Hostel, Room No.- 208 GT Road, Near Jewels Hotel, Nyaypuri Karnal	
NIScPR/RH MD/Consult /2022/4197- 98 28/09/2022	<i>Euphorbia neriifolia</i> L. Danda thaur, Sehund Family: Euphorbiaceae	Leaves	Mrs. Navneet Kaur Village Sonti, P. O. Ladwa Distt.- Kurukshetra, Haryana	
NIScPR/RH MD/Consult /2022/4198- 99 28/09/2022	<i>Grevillea robusta</i> A. Cunn. ex R. Br. Silver Oak, Silky Oak. Family: Proteaceae	Leaves	Mr. Jatin Dabar Baddi University of Engineering Sciences & Technology Makhnumajra, Distt. Solan Tehsil Baddi- 173205	

PLANT OF THE MONTH



In each issue we are publishing short note on a plant growing in CSIR–NIScPR campus. Tree species in addition to annual ornamentals, weeds, shrubs and climbers will be considered and photographs of the fresh whole plant, its parts including roots, stem, bark, leaves, flowers, fruits, seeds in dried forms shall be displayed for assisting identification.

***Araucaria heterophylla* (Salisb.) Franco syn. *Araucaria exelsa* R. Br.**

Family: Araucariaceae

English and Vernacular Names: Hindi; English- Norfolk Island Pine

Distribution and Cultivation: Native to Norfolk Island, Australia, Introduced in Indian gardens as ornamental plants. Propagated by cuttings or by seeds. These plants are sensitive to frosts, however, reportedly age of these trees is more than hundred years.

Description: Evergreen plants attain a height upto 70 m, however, also grown as ornamental plant in pots. Leaves incurved, densely arranged, bright green, soft and awl-shaped, 1-1.5cm long, 1-1.5 mm broad, spine-tipped. Cones globose.

Uses: A common greenhouse species. Wood of grown up trees is used for sheep-building and it's a good source of oleo-resin. The foliage resin and essential oils possess antibacterial property. The plant reported to possess antioxidant properties and could possibly be of use in cancer prevention medicine in the future. The essential oil obtained from oleoresin showed gastroprotective role and their use can be recommended to protect against the recurrence of peptic ulcers [Wlth India-Raw Materials, Vol. 1: A, Revised series, 1985, p. 387-88; Verma *et al*, Chemical composition and antibacterial activity of foliage resin and essential oils of *Araucaria cunninghamii* Aiton ex D.Don and *Araucaria heterophylla* (Salisb.) Franco from India, *Industrial Crops and Products*, 2014, **61**, 410-416; Camille Anne M. Manalo *et al*, In vitro antioxidant and DNA damage inhibition activity of ethanolic extract of *Araucaria heterophylla* (Salisb.) Franco, *The Steth*, 2020, **14**, 31-45].

Published by

Dr. Ranjana Aggrawal on behalf of CSIR-National Institute of Science Communication and Policy Research (NIScPR),

Dr K. S. Krishnan Marg, Pusa Campus, New Delhi-110012

Editor: R. S. Jayasomu, Head, Raw Materials Herbarium and Museum (RHMD)

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