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RHMD e-Bulletin

IN-HOUSE QUARTERLY BULLETIN

Envisaging the usage of Indian Raw Materials

Volume 5

No. 4

October – December 2021

NISCAIR 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. NISCAIR, 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. NISCAIR, 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 programme 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 poisoned 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 NISCAIR 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–NISCAIR 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-NISCAIR 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 NISCAIR campus.

IN THIS ISSUE: Vol. 5, No. 4, 2021, 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 October – December 2021 have been included to display on NIScPR website: www.niscair.res.in. Previous issues may be visited through following link: <http://www.niscair.res.in/InformationResources/rawmaterial/RHMD-eBULLETIN>.

OCTOBER 2021				
Authentication certificate number/Date	Botanical Name, common names and Family	Plant Part (s)	Name and Address of Researcher/ Pharmaceutical Co./Others	Image
NIScPR/RHM D/Consult/2021/3912-13-1 21/10/2021	<i>Moringa oleifera</i> Lam. syn. <i>Moringa pterygosperma</i> Gaertn. Drumstick Tree, Horse Radish Tree, Sainjna Family: Moringaceae	Dried leaves	Dr Ramesh Uniyal Head, Bioresources Development Emami Ltd., 5 th Floor, 687, AnandapurEM Bypass, Kolkata- 700107 E-mail: ramesh.uniyal@e mamigroup.com	
NIScPR/RHM D/Consult/2021/3912-13-2 21/10/2021	<i>Anthemis nobilis</i> L. Chamomile, Roman Chamomile Family: Asteraceae	Dried stems	Dr Ramesh Uniyal Head, Bioresources Development Emami Ltd., 5 th Floor, 687, Anandapur EM Bypass, Kolkata-700107	

NIScPR/RHM D/Consult/202 1/3912-13-3 21/10/2021	<i>Lilium polyphyllum</i> D. Don ex Royle Kakoli, Kshirkakoli Family: Liliaceae	Dried roots	Dr Ramesh Uniyal Head, Bioresources Development Emami Ltd., 5 th Floor, 687, Anandapur EM Bypass	
NIScPR/RHM D/Consult/202 1/3912-13-4 21/10/2021	<i>Buchanania</i> <i>cochinchinensis</i> (Lour.) M. R. Almeida. syn. <i>Buchanania lanzan</i> Spreng., <i>Buchanania</i> <i>latifolia</i> Roxb. Almondette, Cheronjee, Chirongi, Piya Family: Anacardiaceae	Kernels	Dr Ramesh Uniyal Head, Bioresources Development Emami Ltd., 5 th Floor, 687, Anandapur EM Bypass	
NIScPR/RHM D/Consult/202 1/3913-14 5/10/2021	<i>Amberboa ramosa</i> (Roxb.) Jafri syn. <i>Volutarella</i> <i>divaricata</i> (DC.) Benth. & Hook. f., <i>Amberboa</i> <i>divaricata</i> Kuntze, Branched Sweet- Sultan, Badaward, Unt kantilo Family: Asteraceae	Dried whole plant	Dr. Kaisar Raza Department of Pharmacy Central University of Rajasthan Bandar Sindri, Kishangarh Dist. Ajmer (Raj.), Pincode - 3055817	

NIScPR/RHM D/Consult/202 1/3914-15-1 27/10/2021	<i>Averrhoa carambola</i> L. Carambola, Kamrakh Family: Oxalidaceae	Leaves	Mr. Dinesh Kumar IFTM, University Moradabad NH-24, Lodhipur Rajput Moradabad, U. P. -244102	
NIScPR/RHM D/Consult/202 1/3914-15-2 27/10/2021	<i>Leucaena leucocephala</i> (Lam.) de Wit. syn. <i>Leucaena glauca</i> Benth. Safed Babool, White Popinac, The Lead-Tree, Subabul Family: Fabaceae	Leaves	Mr. Dinesh Kumar IFTM, University Moradabad NH-24, Lodhipur Rajput Moradabad	
NIScPR/RHM D/Consult/202 1/3915-16-1 27/10/2021	<i>Cayratia trifolia</i> (L.) Domin syn. <i>Vitis carnosa</i> (Lam.) Wall., <i>Vitis trifolia</i> L. Foxgrape, Amal- bel, Bush Grape, Ramchana Family: Vitaceae	Dried leaves and fruits	Ms. Aamna Tabassum Pharmacology Department Sunderdeep Pharmacy College Ghaziabad- 201001	
NIScPR/RHM D/Consult/202 1/3915-16-2 27/10/2021	<i>Hibiscus rosa- sinensis</i> L. Shoe Flower, Chinese Hibiscus, Jasun Family: Malvaceae	Flowers	Ms. Aamna Tabassum Pharmacology Department Sunderdeep Pharmacy College Ghaziabad	

NIScPR/RHM D/Consult/202 1/3916-17-1 28/10/2021	<i>Pterocarpus marsupium</i> Roxb. Vijaysar, Bijaisaar, Indian Kino wood Family: Fabaceae	Stem wood	Ms. Saba Fatma Department of Pharmacology Sunderdeep Pharmacy College Ghaziabad	
NIScPR/RHM D/Consult/202 1/3916-17-2 28/10/2021	<i>Hibiscus rosa-sinensis</i> L. Shoe Flower, Chinese Hibiscus, Jasun Family: Malvaceae	Flowers	Ms. Saba Fatma Department of Pharmacology Sunderdeep Pharmacy College Ghaziabad- 201001 (U. P.)	
NIScPR/RHM D/Consult/202 1/3919-20 28/10/2021	<i>Cissus quinquangularis</i> Chiov Rangka, Five- ribbed or Five- angled Cissus Family: Vitaceae	Dried stems	M/S PDC Marketing Pvt. Ltd., Flat No. 7, Deep Laxmi Apartment Near Hotel Seven Heaven, Chetna Nagar, Nashik, Maharashtra, Code:27	
NIScPR/RHM D/Consult/202 1/3920-21-1 28/10/2021	<i>Tinospora cordifolia</i> (Willd.) Hook. f. & Thoms. Giloy, Giloe, Amrita, Golancha Family: Menispermaceae	Dried stem and root pieces	Ms. Priyanka Sharma DPSRU, Lab-107 Mehrauli- Badarpur Road Sector 3, Pushp Vihar , New Delhi-110017	

NIScPR/RHM D/Consult/202 1/3920-21-2 28/10/2021	<i>Picrorhiza kurroa</i> Royle ex Benth. Kutki, Katuka, Kadu, Kedar- Karwi, Hellebore root Family: Plantaginaceae	Roots and rhizomes	Ms. Priyanka Sharma DPSRU, Lab-107 Mehrauli- Badarpur Road Sector 3, Pushp Vihar, New Delhi-110017	
NIScPR/RHM D/Consult/202 1/3920-21-3 28/10/2021	<i>Phyllanthus amarus</i> Schum. & Thonn. Bhu-Amla, Bhui- Amla Family: Phyllanthaceae	Dried leaves	Ms. Priyanka Sharma DPSRU, Lab-107 Mehrauli- Badarpur Road Sector 3, Pushp Vihar New Delhi- 110017	

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NIScPR/RHM D/Consult/202 1/3917-18-1B 16/11/2021	<i>Hedychium spicatum</i> Buch.- Ham. ex Smith Kapur Kachri, Shathi, Spiked Ginger Root Family: Zingiberaceae	Dried rhizome pieces	Dr Arun T Namboodiri AVP Research Foundation 136/137, Trichy Road, Ramanathapuram P. O. Coimbatore- 641045	
NIScPR/RHM D/Consult/202 1/3917-18-1C 16/11/2021	<i>Hedychium spicatum</i> Buch.- Ham. ex Smith Kapur Kachri, Shathi, Spiked Ginger Root Family: Zingiberaceae	Dried rhizome pieces	Dr Arun T Namboodiri AVP Research Foundation 136/137, Trichy Road, Ramanathapuram P. O. Coimbatore- 641045	

NIScPR/RHM D/Consult/202 1/3917-18-1D 16/11/2021	<i>Hedychium spicatum</i> Buch.- Ham. ex Smith Kapur Kachri, Shathi, Spiked Ginger Root Family: Zingiberaceae	Dried rhizome pieces	Dr Arun T Namboodiri AVP Research Foundation 136/137, Trichy Road, Ramanathapuram P. O. Coimbatore- 641045	
NIScPR/RHM D/Consult/202 1/3925-26 11/11/2021	<i>Saussurea costus</i> (Falc.) Lipsch. syn. <i>Saussurea lappa</i> Clarke Kuth, Costus Root Family: Asteraceae	Dried roots	Mrs. Chhaya Bakshi Amity Institute of Pharmacy Amity University Campus, Noida	
NIScPR/RHM D/Consult/202 1/3926-27 15/11/2021	<i>Abrus precatorius</i> L. Gunja, Jequirty seed, Gunghchi, Rattee and Rosary Pea Family: Fabaceae	Seeds of red variety	Ms. Srishti Vats KIET School of Pharmacy Delhi NCR, Ghaziabad, UP- 201206	
NIScPR/RHM D/Consult/202 1/3927-28 15/11/2021	<i>Nyctanthes arbour- tristis</i> L. Night Flowering Jasmine, Coral Jasmine, Harsingar, Parijat Family: Oleaceae	Leaves	Mr. Nishant Kaushik KIET School of Pharmacy Delhi NCR, Ghaziabad, UP- 201206	

NIScPR/RHM D/Consult/202 1/3928-29 23/11/2021	<i>Cedrus deodara</i> (Roxb. ex Lamb.) G. Don syn. <i>Pinus deodara</i> Roxb. Deodar, Dedwar, Himalayan Cedar Family: Pinaceae	Dried wood pieces	Ms. Nancy Guliya Department of Pharmaceutical Science PDM University Bahadurgarh- 124507, Haryana	
NIScPR/RHM D/Consult/202 1/3929-30 23/11/2021	<i>Tinospora cordifolia</i> (Willd.) Hook. f. & Thoms. Giloy, Giloe, Amrita, Golancha Family: Menispermaceae	Stem pieces	Ms. Ritu Rani Department of Pharmaceutical Science PDM University Bahadurgarh- 124507	

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NIScPR/RHMD/ Consult/2021/39 31-32 2/12/2021	<i>Aconitum chasmanthum</i> Stapf. ex Holmes Vatsanabh, Indian Aconite, Bachnag, Meetha Telia Family: Ranunculaceae	Dried roots	Dr Alok Kumar Tiwari Govt. Ayurvedic College Raipur- 492 001 Chhattisgarh	
NIScPR/RHMD/ Consult/2021/39 32-33 22/12/2021	<i>Hibiscus rosa-sinensis</i> L. Gudhal, Jasum, Chinese Hibiscus, Shoe Flower Family: Malvaceae	Dried leaves	Ms. Ankita Gupta Shiva Institute of Pharmacy Chandpur, Bilaspur-174004 Himachal Pradesh	

NIScPR/RHMD/ Consult/2021/39 33-34 13/12/2021	<i>Artemisia vulgaris</i> L. Mugwort, Indian Warmwood, Fleabane, Nagdonga Family: Asteraceae	Leaves	Ms. Preeti University Institute of Pharmaceutical Sciences Chandigarh University Ghruan, Punjab- 1401435	
NIScPR/RHMD/ Consult/2021/39 34-35 27/12/2021	<i>Urtica dioica</i> L. Stinging-Nettle, Bichhu booti Family: Urticaceae	Leaves	Ms. Sheetal Rani UIPS, Chandigarh University Chandigarh- Ludhiana Highway Mohali, Punjab (INDIA)	
NIScPR/RHMD/ Consult/2021/39 35-36 28/12/2021	<i>Syzygium cumini</i> (L.) Skeels Jaman, Jamun, Black Plum Family: Myrtaceae	Stems	Ms. Ridhi Bajaj Swami Dayanand Post Graduate Institute of Pharmaceutical Sciences Pt. B. D. Sharma University of Health Sciences Rohtak, Haryana-124001	
NIScPR/RHMD/ Consult/2021/39 36-37-1 28/12/2021	<i>Ficus racemosa</i> L. Goolar, Udumbara Family: Moraceae	Leaves	Ms. Anu Rani Amity Institute of Pharmaceutical Sciences Manesar, Gurugram, Haryana	

NIScPR/RHMD/ Consult/2021/39 36-37-2 28/12/2021	<i>Ficus racemosa</i> L. Goolar, Udumbara Family: Moraceae	Root	Ms. Anu Rani Amity Institute of Pharmaceutical Sciences Manesar, Gurugram, Haryana	
NIScPR/RHMD/ Consult/2021/39 37-38-1 13/12/2021	<i>Piper longum</i> L. Pipal, Pippali, Long Pepper Family: Piperaceae	Mature fruiting spikes	Dr. Poonam Bamola Department of Shalakya SGT University Gurugram, Haryana-122505	
NIScPR/RHMD/ Consult/2021/39 37-38-2 13/12/2021	<i>Acorus calamus</i> L. Vach, Vacha, Sweet Flag, Indian Calamus Family: Acoraceae	Dried rhizomes	Dr. Poonam Bamola Department of Shalakya SGT University Gurugram, Haryana-122505	
NIScPR/RHMD/ Consult/2021/39 38-39-1 13/12/2021	<i>Hemidesmus indicus</i> R. Br. Anantamool, Indian Sarsaparilla, Nannari, Utpal Sariva Family: Apocynaceae	Dried roots	Dr. Neeraj Kumar Gupta FIMS, Department of Bal Rog SGT University Gurugram, Haryana-122505	

NIScPR/RHMD/ Consult/2021/39 38-39-2 13/12/2021	<i>Glycyrrhiza glabra</i> L. Liquorice, Mulethi, Yashtimadhu Family: Fabaceae	Dried roots	Dr. Neeraj Kumar Gupta FIMS, Department of Bal Rog SGT University Gurugram, Haryana-122505	
NIScPR/RHMD/ Consult/2021/39 38-39-3 13/12/2021	<i>Cynodon dactylon</i> Pers. Durva, Dhub Grass, Hariali Family: Poaceae	Whole plant	Dr. Neeraj Kumar Gupta FIMS, Department of Bal Rog SGT University Gurugram, Haryana-122505	
NIScPR/RHMD/ Consult/2021/39 38-39-4 13/12/2021	<i>Sesamum indicum</i> L. Gingelly, Til, Tila, Sesame Family: Pedaliaceae	Seeds	Dr. Neeraj Kumar Gupta FIMS, Department of Bal Rog SGT University Gurugram, Haryana-122505	
NIScPR/RHMD/ Consult/2021/39 38-39-5 13/12/2021	<i>Nymphaea nouchali</i> Burm. f. syn. <i>Nymphaea stellata</i> Willd. Nilufur, Nilophar, Nilotpala, Blue Lily Flower, Nilkamal Family: Nymphaeaceae	Dried flowers	Dr. Neeraj Kumar Gupta FIMS, Department of Bal Rog SGT University Gurugram, Haryana-122505	

NIScPR/RHMD/ Consult/2021/39 38-39-6 13/12/2021	<i>Prosopis cineraria</i> Druce Shami Family: Fabaceae	Dried leaves	Dr. Neeraj Kumar Gupta FIMS, Department of Bal Rog SGT University Gurugram, Haryana-122505	
NIScPR/RHMD/ Consult/2021/39 38-39-7 13/12/2021	<i>Albizzia lebbek</i> Benth. Siris, Sirisha Family: Fabaceae	Dried stem bark	Dr. Neeraj Kumar Gupta FIMS, Department of Bal Rog SGT University Gurugram, Haryana-122505	
NIScPR/RHMD/ Consult/2021/39 39/40 13/12/2021	<i>Cinnamomum tamala</i> Nees & Eberm. Tejpat, Indian Cassia Lignea Family: Lauraceae	Dried leaves	Ms. Vaishnavi Verma KIET Group of Institutions Muradnagar, Ghaziabad-201206	
NIScPR/RHMD/ Consult/2021/39 40-41-1 13/12/2021	<i>Pteris vittata</i> L. The Chinese brake fern Family: Pteridaceae	Leaves	Mr. Prateek Kumar Tiwari KIET Group of Institutions Muradnagar, Ghaziabad-201206	

NIScPR/RHMD/ Consult/2021/39 40-41-2 13/12/2021	<i>Adiantum capillus-veneris</i> L. Maidenhair Fern, Hansraj Family: Pteridaceae	Leaves	Mr. Prateek Kumar Tiwari KIET Group of Institutions Muradnagar, Ghaziabad- 201206	
NIScPR/RHMD/ Consult/2021/39 41-42-1 14/12/2021	<i>Cyperus rotundus</i> L. Motha, Musta, Nutgrass Tubers Family: Cyperaceae	Tubers (born on roots)	Mrs. Sanjana Prasad (Kumar) Amity Institute of Pharmacology Amity University, NOIDA	
NIScPR/RHMD/ Consult/2021/39 41-42-2 14/12/2021	<i>Citrullus colocynthis</i> (L.) Schrad. Indravaaruni Mool, Indrayan mool, Colocynth root Family: Cucurbitaceae	Dried roots	Mrs. Sanjana Prasad (Kumar) Amity Institute of Pharmacology Amity University, NOIDA	
NIScPR/RHMD/ Consult/2021/39 41-42-3 14/12/2021	<i>Berberis aristata</i> DC. Daru Haldi, Daruharidra, Indian Berberis Family: Berberidaceae	Stem bark	Mrs. Sanjana Prasad (Kumar) Amity Institute of Pharmacology Amity University, NOIDA	

NIScPR/RHMD/ Consult/2021/39 42-43 27/12/2021	<i>Gloriosa superba</i> L. Malabar Glory Lily, Langli, Kalihari, Karihari Family: Colchicaceae	Dried roots	Ms. Sangita Patel , Dept. of Pharmacognosy Nootan Pharmacy College Sankalchand Patel University Visnagar, Gujarat	
NIScPR/RHMD/ Consult/2021/39 44-45 14/12/2021	<i>Celosia cristata</i> L. syn. <i>Celosia</i> <i>argentea</i> var. <i>cristata</i> Voss Cockscomb, Common Cockscomb, Lalmurga Family: Amaranthaceae	Leaves	Ms. Neha Tripathi Chandigarh University (UIPS), Ajitgarh NH-95, Ludhiana, Chandigarh Highway, Punjab-140413	
NIScPR/RHMD/ Consult/2021/39 45-46 27/12/2021	<i>Myrica esculenta</i> Buch.- Ham. ex Don syn. <i>Myrica</i> <i>nagi</i> Hook. f. Katphal, Kaiphal, Box Myrtle Family: Myricaceae	Dried stem bark	Ms Shilpa Thakur Amar Saheed Baba Ajit Singh Jujhar Singh Memorial College of Pharmacy Bela Ropar, Punjab	
NIScPR/RHMD/ Consult/2021/39 46-47-1 28/12/2021	<i>Fumaria indica</i> (Hauskn.) Pugsley Papra, Pitpapra Family: Papaveraceae	Aerial parts	Ms. Farha Sultana Chitkara University Chandigarh- Patiala, National Highway NH-64, Village- Jansla, Rajpura Punjab-140401	

NIScPR/RHMD/ Consult/2021/39 46-47-2 28/12/2021	<i>Allium ascalonicum</i> L. The Shallot, Gandana, Ghungaar Family: Liliaceae	Vegetative Whole plant	Ms. Farha Sultana Chitkara University Chandigarh- Patiala, National Highway NH-64, Village- Jansla, Rajpura Punjab-140401	
NIScPR/RHMD/ Consult/2021/39 47-48 27/12/2021	<i>Ipomoea aquatica</i> Forsk Kalmi Saag, Water Spinach, Aquatic Morning Glory, Chinese water spinach Family: Convolvulaceae	Aerial parts including stem, leaves and flowers	Ms. Ayantika Ghosh University Institute of Pharmaceutical Sciences Punjab University Chandigarh	
NIScPR/RHMD/ Consult/2021/39 48-49 27/12/2021	<i>Portulaca grandiflora</i> Hook. Moss Rose, Eleven o'clock, Mexican rose, Moss-rose purslane Family: Portulacaceae	Stems and leaves	Ms. Aishwarya Sharma Amar Saheed Baba Ajit Singh Jujhar Singh Memorial College of Pharmacy Bela Ropar, Punjab	
NIScPR/RHMD/ Consult/2021/39 49-50-1 28/12/2021	<i>Ananas comosus</i> (L.) Merrill Pineapple, Ananas Family: Bromeliaceae	Stems and leaves	Ms. Pooja Rani Guru Jambheshwar University of Science & Technology, Hisar - 125001, Haryana (India)	

NIScPR/RHMD/ Consult/2021/39 49-50-2 28/12/2021	<i>Musa acuminata</i> Colla Dwarf Banana, Dwarf Cavendish Family: Musaceae	Pseudostem	Ms. Pooja Rani Guru Jambheshwar University of Science & Technology, Hisar - 125001, Haryana (India)	
NIScPR/RHMD/ Consult/2021/39 50-51-1 28/12/2021	<i>Madhuca longifolia</i> (J. Koenig. ex L.) J. F. Macbr. Butter Tree, Mahua, Madhuca, Mohwo Family: Sapotaceae	Dried seeds	Ms. Premsheela Sao School of Pharmacy Chouksey Engineering College Bilaspur	
NIScPR/RHMD/ Consult/2021/39 50-51-2 28/12/2021	<i>Colocasia esculenta</i> (L.) Schott Arabi, Cocoyam, Ghuiya Family: Araceae	Leaves	Ms. Premsheela Sao School of Pharmacy Chouksey Engineering College Bilaspur	
NIScPR/RHMD/ Consult/2021/39 51-52-1 27/12/2021	<i>Nyctanthes arbour-tristis</i> L. Coral Jasmine, Harsingar, Night Flowering Jasmine, Parijat Family: Oleaceae	Leaves	Ms. Kiran Department of Pharmaceutical Sciences M.D.U. , Rohtak	

NIScPR/RHMD/ Consult/2021/39 51-52-2 27/12/2021	<i>Hordeum vulgare</i> L. Barley, Jau, Jav Family: Poaceae	Leaves	Ms. Kiran Department of Pharmaceutical Sciences M.D.U. , Rohtak	
NIScPR/RHMD/ Consult/2021/39 52-53 14/12/2021	<i>Epipremnum aureum</i> (Lind. & Andre) G. S. Bunting Money Plant Family: Araceae	Fresh leaves	Mr. S M Osama Iqbal Depart. of Pharmacology School of Pharmacy & Emerging Sciences. Baddi, Himachal Pradesh-173205	
NIScPR/RHMD/ Consult/2021/39 53-54-1 28/12/2021	<i>Curcuma longa</i> L. syn. <i>Curcuma domestica</i> Valeton Curcuma, Haldi, Turmeric Family: Zingiberaceae	Rhizomes	Ms Arushi Shiva Institute of Pharmacy Chandpur, Bilaspur, Himachal Pradesh	
NIScPR/RHMD/ Consult/2021/39 53-54-2 28/12/2021	<i>Aloe vera</i> (L.) Burm. f. syn. <i>Aloe barbadensis</i> Miller Aloe, Barbados Aloe, Indian Aloe, Ghee-Kunvar, Ghrit Kumari Family: Asphodelaceae	Leaves	Ms Arushi Shiva Institute of Pharmacy Chandpur, Bilaspur, Himachal Pradesh	

NIScPR/RHMD/ Consult/2021/39 53-54-3 28/12/2021	<i>Tagetes erecta</i> L. Aztec, African Marigold, Genda Family: Asteraceae	Dried leaves	Ms Arushi Shiva Institute of Pharmacy Chandpur, Bilaspur, Himachal Pradesh	
NIScPR/RHMD/ Consult/2021/39 56-57 27/12/2021	<i>Trigonella foenum-graecum</i> L. Methi, Fenugreek Family: Fabaceae	Dried vegetative plant	Ms Vandana School of Pharmacy Sharda University Plot No. 32, 34 Knowledge Park-3, Greater Noida-201310	
NIScPR/RHMD/ Consult/2021/39 58-59 28/12/2021	<i>Aloe vera</i> (L.) Burm. f. syn. <i>Aloe barbadensis</i> Miller Aloe, Barbados Aloe, Indian Aloe, Ghee- Kunvar, Ghrit Kumari Family: Liliaceae	Fresh leaf	Mr. Shubham UIPS, Punjab University Chandigarh - 160014	
NIScPR/RHMD/ Consult/2021/39 59-60 28/12/2021	<i>Curcuma longa</i> L. syn. <i>Curcuma domestica</i> Valeton Curcuma, Haldi, Turmeric Family: Zingiberaceae	Rhizomes	P. Roja Reddy Shiva Institute of Pharmacy Bilaspur, Himachal Pradesh	

NIScPR/RHMD/ Consult/2021/39 60-61 27/12/2021	<i>Selinum vaginatum</i> C. B. Clarke syn. <i>Cortia vaginata</i> Edgew. Bhootkeshi Family: Apiaceae	Dried roots and rhizomes	Ms. Supriya Sharma UIPS, Panjab University Chandigarh-160 014	
NIScPR/RHMD/ Consult/2021/39 61-62 27/12/2021	<i>Merremia emarginata</i> (Burm. f.) Hallier f. syn. <i>Ipomoea reniformis</i> (Roxb.) Choisy Musakarni, Musakani Family: Convolvulaceae	Dried aerial parts	Ms. Reema Mitra Institute of Nano Science & Technology (INST) Sector-81, Mohali, Punjab- 140306	
NIScPR/RHMD/ Consult/2021/39 62-63 27/12/2021	<i>Murraya koenigii</i> (L.) Spreng. Curry Leaf Tree, Kurru Patta, Mitha Neem Family: Rutaceae	Leaves and Root	Mr. Prajjwal Baddi University Dept. of Pharmacology Baddi Distt., Solan (H P)	
NIScPR/RHMD/ Consult/2021/39 63-64 28/12/2021	<i>Punica granatum</i> L. Anar, Pomegranate, Dalim Family: Punicaceae	Fruit peels	Ms. Manjula Devi Department of Pharmacognosy Shiva Institute of Pharmacy Bilaspur, HP	

NIScPR/RHMD/ Consult/2021/39 65-66-1 28/12/2021	<i>Ficus virens</i> Aiton syn. <i>Ficus virens</i> var. <i>glabella</i> (Blume) Corner White Fig, Pilkhan, Pakhad Family: Moraceae	Leaves	Mr. Denish Ghodasara B. K. Mody Govt. Pharmacy College Rajkot, Gujarat	
NIScPR/RHMD/ Consult/2021/39 65-66-2 28/12/2021	<i>Crataeva nurvala</i> Buch.- Ham. Barna, Kumarak, Varun, Setu briksh Family: Capparaceae	Leaves	Mr. Denish Ghodasara B. K. Mody Govt. Pharmacy College Rajkot, Gujarat	
NIScPR/RHMD/ Consult/2021/39 66-67 28/12/2021	<i>Tagetes erecta</i> L. Aztec, African Marigold, Genda Family: Asteraceae	Leaves and flowers	Mr. Naveen Singh Baddi University of Engineering Sciences and Technology, Vill.- Makhnumajra, Baddi, Distt. Solan-173205	
NIScPR/RHMD/ Consult/2021/39 67-68 28/12/2021	<i>Chrysopogon zizanioides</i> (L.) Roberty syn. <i>Anatherum zizanioides</i> (L.) Hitchc. & Chase, <i>Vetiveria zizanioides</i> (L.) Nash Khas-Khas, Vetiver, Sugandhimula Family: Poaceae	Roots	Prof.(Dr.) Dhirender Kaushik Dept. of Pharmaceutical Sciences Gurugram University, Gurugram	

NISCAIR/RHM D/Consult/2020/ 3889-90-21 21/9/2021	<i>Nardostachys grandiflora</i> DC. syn. <i>Nardostachys jatamansi</i> DC. Jatamansi, Spike Nard, Balchar Family: Caprifoliaceae	Rhizomes	Multani Pharmaceuticals Ltd Village- Makkanpur Mehmood Alam Pargana & Tehsil- Bhagwanpur Dist.- Haridwar (Uttarakhand)- 247 661, India	
NISCAIR/RHM D/Consult/2020/ 3889-90-22 21/9/2021	<i>Acacia catechu</i> Willd. Cutch Tree, Khair Family: Mimosaceae	Stem bark	Multani Pharmaceuticals Ltd Village- Makkanpur Mehmood Alam Pargana & Tehsil- Bhagwanpur Dist.- Haridwar (Uttarakhand)- 247 661, India	

PLANT OF THE MONTH

In each issue we are publishing short note on a plant growing in CSIR–NISAIR 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 and dried forms shall be displayed for assisting identification.



Hibiscus rosa-sinensis L.

Family: Malvaceae

English and Vernacular Names: Shoe Flower, Chinese Hibiscus, Jasum, Jabaphool

Distribution and Cultivation: A native of China, grown as an ornamental plant in gardens throughout India and often planted as hedge or fence. Propagated by mature woody stem cuttings in any type of soil.

Description: An evergreen woody shrub. Leaves bright green, 10-20 cm long, ovate or ovate-lanceolate, acuminate, toothed, coarse on lower surface. Flower solitary, axillary, bell-shaped, 3-10 cm in diam. with pistil and stamens projecting from the centre, they may only last a day, single or double-flowered cultivars are also grown by Horticulturists. Capsules roundish, many-seeded.

Uses: In some countries flowers are eaten raw or pickled, they are rich in calcium, and iron. Crushed flowers yield a dark purplish dye (anthocyanin) which could be used for polishing shoes, colouring hair, food articles or liquors. Flowers also possess demulcent, refrigerant and emmenagogue properties, paste is also applied on swellings, boils and for making hair colour. Roots are used in some veterinary diseases. The flowers are used in several Ayurvedic formulations and could be used as antioxidant and for applications on some skin diseases. Tribals in Karnataka use juice of leaves and flowers for curing constipation. It is reported that a flower bud is given daily up to 10 days to reduce high blood sugar level.

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