



#आयुष जिंदगी रहे खुश



राष्ट्रीय औषधीय पादप बोर्ड, आयुष मंत्रालय, भारत सरकार
National Medicinal Plants Board, Ministry of Ayush GOI

IUCN-RED LISTED

MEDICINAL PLANTS

OF

HORTH WEST HIMALYAN REGION



क्षेत्रीय एवं सुगमता केंद्र उत्तर भारतीय क्षेत्र-1 (आर सी एफ सी एन आर-1) एन एम पी बी
आयुर्वेद अनुसंधान संस्थान आयुष विभाग जोगिन्द्रनगर-175015 (मंडी) हि.प्र.

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In the Universe, earth is the only planet where it is blessed with the existence of life which makes it most beautiful and different from the other planets. There are two different forms of life visible on earth, Plants and Animals which are interdependent for their existence. Apart from the sustained source of Oxygen for breathing, the mankind at large is directly dependent upon the plants as a vital source providing us with a variety of things of our day to day requirements such as source of food, air to breath, shelter and many other products for the benefit to mankind to live a long healthy life. Not only this, plants are also beneficial to human societies for curing the ailments and provide as an easy approachable health care system. The plants which possess the healing properties are termed as Medicinal Plants.

Wild habitats have been the source of many Medicinal plants growing naturally around the human inhabitations. These have been the source of a large number of drug formulations practiced across the world. In our country a system of Medicine has evolved since Vedic era based mainly on Herbs and is well known as Ayurvedic System of Medicines. It is a time tested Health Care System and deep rooted in our country. In the recent years, outreach of Ayurveda is phenomenally wide spread globally and the Ayurvedic Drugs are considered safest for human consumption. Consequent upon, the demand of these herbs based drug formulations have increased tremendously. As most of the herbal crude drugs are met through wild collection and to meet it, large scale extraction of many herbs has lead a rapid loss of their wild population. This threat of existence is not only in Medicinal Plants sector but it can also be witnessed in other categories of vegetation and biological diversity as whole. Decline in Bio-diversity is at an alarming rate in recent years on planet earth and the main culprit is human himself being by insidious exploitation of the natural resources and environment. Large scale land use for urbanization & Industrialization, climate change, introduction of invasive alien species, habitats loss, overexploitation of preferred species and natural disasters are some the factors for decline the biological diversity in nature.

Various International Organizations keep the watch to assess the loss of Biological Diversity Time to Time from the natural Habitats and come up with tangible recommendations for its conservation. International Union for Conservation of Nature (IUCN) is one of such an organization which is a membership Union uniquely composed of both Govt. and Civil society organisations and is a

global authority on the status of nature world and the measures needed to safeguard it.

In the matter of conservation of plants wealth, IUCN assess the status of the species which are facing threat for existence in the natural habitats periodically for the consideration of the authorities and environmentalists. It works to develop best practices and approaches that enable effective conservation and help sites achieve high standards, while also informing professional capacity development and influencing natural and global policy. IUCN is at the forefront of the global fight to save the species from extinction.

IUCN organise regional specific meetings, workshops and seminars in the different parts of the world to assess the threat status of vulnerable species designating these in the different categories as:

DD : Data Deficient

LC : Least Concern

NT : Near Threatened

VU : Vulnerable

END : Endangered

CR : Critically Endangered

EW : Extinct in the Wild

These threat categories are interchangeable in assessing the threat status periodically in next such meetings.

North West Himalayas of Himachal Pradesh, Uttrakhand and J&K is a natural house of many valuable Medicinal Plants species highly demanded in trade. Due to tremendous increase in demand of the crude drugs derived from these species and other factors as stated above many of the Taxa are under great threat for survival in the in their natural habitats. Some of these species are at the verge of extinction and therefore, it is needed that the threat status of these may be assessed to draw a strategy for the conservation measures to ensure their survival in the nature. In this direction, Forest department has been organising some workshops to address the issues as stated above and one of such work shop "Shimla CAMP Workshop-Dec., 2010" (Conservation Assessment and Management Prioritisation of Medicinal Plants of Himachal Pradesh) was organised. Although this work shop was aimed to assess the threat status of Medicinal Plants of Himachal, but the final list which has been drawn is also applicable to the other North Western Himalayan Region States. A panel of subject matter experts representing the North Western Himalayan States participated in the work shop and after the brainstorming four days session, came up with a document enlisting the IUCN red listed categories of Medicinal Plants as per the table given below:

IUCN Red Listed Medicinal Plants of the Region

Sr. No.	BOTANICAL NAME	COMMON / LOCAL NAME	USEABLE PART	THREAT STATUS
1	Aconitum dinorrhizum	Vatsnabh, Mora वत्सनाभ, मोरा	Root Tuber	EN
2	Aconitum heterophyllum	Atis, Patish अतीस, पतीस	Root Tuber	CR
3	Aconitum violaceum	Meethi Patish, Meetha Telia मीठी पतीस, मीठा तेलिया	Root Tuber	VU
4	Allium stracheyi	Jambu, Farna जम्बू, फरना	Leaves & bulbs	VU
5	Angelica glauca	Chora चोरा	Root	EN
6	Arnebia benthami	Ratan Jot रतन जोत	Root	CR
7	Arnebia euchroma	Ratan Jot रतन जोत	Root	CR
8	Atropa acuminata (Atropa belladonna)	Atropa, Jharka एट्रोपा, झरका	Leaves & Roots	CR
9	Bergenia stracheyi	Pashan Bhed पाषाण भेद	Rhizome & Leaves	VU
10	Betula utilis	Bhoj, Bhojpatra भोज, भोजपत्र	Paper bark, Leaves	EN
11	Bunium persicum (Carron bulbocastanum)	Kala zira, Shia zira काला जीरा, सियाह जीरा	Seeds	VU
12	Cinnamomum tamala	Tej Patra तेज पत्र	Leaves & Bark	VU
13	Colchicum leutium	suranjan kadvi सुरंजन कड़वी	Tuber	VU
14	Dactylorhiza hatagirea (Orchis latifolia)	Salampunja सालम पंजा	Tuberous Root	CR
15	Datisca cannabina	Bajar Bhang बजर भांग	Root	EN
16	Didymocarpus pedicellatv	Pathar laung, Pathatphori, Mushakarni पत्थर लौंग, पत्थर फोड़ी, मुशाकर्णी	Leaf Galls	VU
17	Dienia mucifera (Melaxis mucifera)	Jeevak, Rishbhik जीवक, ऋषभक	Bulbils	CR
18	Dioscorea deltoidea	Shingli Mingki शिंगली-मिंगली	Tuberous Roor	EN
19	Emhclia tsjcriam-cottam	Vibidans बायवड़िंग	Fruit	VU
20	Ephedra gerardiana	Somlata सोमलता	Tender Leaves	EN
21	Eremostachys superba (Phlomoides superb)	Gaju Mulla गाजू मुल्ला	Root	VU

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Sr. No.	BOTANICAL NAME	COMMON / LOCAL NAME	USEABLE PART	THREAT STATUS
22	Ferula jaeskeana	Kindal किंडल	Roots	VU
23	Fritillaria roylei	Kashir Kakoli कशीर काकोली	Tuberous Root	EN
24	Gentiana kurroo	Traiman, Kaur त्रायमान, कौड़	Root	CR
25	Gloriosa superba	Kalihari, Langli कलिहारी, लांगली	Tuberous Root	VU
26	Habenaria intermedia	Ridhi ऋधी	Tuberous Root	EN
27	Heracleum lanatum	Patrali पतराली	Root	VU
28	Ilippophae rhamnoides	Chharma, Seabuckthorn छरमा, सीबकथॉर्न	Fruits	VU
29	Hyocymus niger	Khurasani Ajwain खुरासानी अजवाइन	Seeds	EN
30	Hypericum perforatum	Basant बसंत	Aerial parts	VU
31	Hyssopus officinalis	Juffa जूफा	Flowers	VU
32	Juniperus polycarpus (J. Macropoda)	Hauber, Jau हाऊबेर, जाऊ	Fruits	EN
33	Jurinea dolomiaea (J. Macrocephala)	Dhoop धूप	Roots	EN
34	Lilium polyphyllum	Kakoli काकोली	Tuberous Roots	CR
35	Litsea glutinosa (- L. Chinensis)	Medasak, Guan मेदासक, गुआं	Bark	VU
36	Meconopsis aculeata	Patishan rooli पतिशान रूली	Whole plant & root powder	EN
37	Nardostachys grandiflora (N. Jatamansi)	Jatamansi, Balchhar जटामांसी, बालछड़	Fibrous rhizome	EN
38	Paris polyphylla	Meethi batch, Dudh bach, Satwa, Kakoli मीठी बच, दूध बच, सतवा, काकोली	Tuberous Roots	EN
39	Physochlaena praeallata	Bajar Bhang बजर भांग	Roots	
40	Picrorhiza kurroa	Kutki, Karu कुटकी, कडु	Rhizome & Roots	EN
41	Podophyllum hexandrum (P. emodi)	Bankakri बनककड़ी	Root	EN
42	Polygonatum cirrhifolium	Mahameda, Salam Mishri महामेदा, सालम मिश्री	Rhizome	EN

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Sr. No.	BOTANICAL NAME	COMMON / LOCAL NAME	USEABLE PART	THREAT STATUS
43	Polygonatum multiflorum	Meda, Salam Mishri मेदा, सालम मिश्री	Rhizome	VU
44	Polygonatum ver Licellatum	Meda, Salam Mishri मेदा, सालम मिश्री	Rhizome	VU
45	Rauvolfia serpentina	Sarpgandha सर्पगंधा	Roots	CR
46	Rhem emodi (R. australe)	Revandchini, Chukhri रेवँदचीनी, चुखरी	Roots	EN
47	Rheum moocroftianum	Revandchini, Chukhri रेवँदचीनी, चुखरी	Root	EN
48	Rheum speciforme	Revandchini, Chukhri रेवँदचीनी, चुखरी	Roots	VU
49	Rheum webbianum	Revandchini, Chukhri रेवँदचीनी, चुखरी	Roots	VU
50	Rhodiola he Lerodonla	-	Aerial Parts	VU
51	Rhododendron anthopogon	Talispatra तालिस पत्र	Leaves, Flowers	VU
52	Rhododendron campanulatum	Burans, Kashmiri patha बुरांस, कश्मीरी पठा	Flowers	VU
53	Rhododendron lepidotum	Kashmiri patha कश्मीरी पठा	Leaves	VU
54	Roylea cinerea (-R. calycina)	Karvi कड़वी	Leaves	VU
55	Saussurea gossypuphora	Ghooghi घुगी	-	CR
56	Saussurca obvallata	Braham Kamal ब्रह्म कमल	-	CR
57	Swertia chirayita (S. chirata)	Chirayata चिरायता	Aerial Parts	CR
58	Taxus wallichiana (T. baccata)	Talispatra, Rakhil, Thunarm Brihmi तालिस्पत्र, राखल, थुनार बिरहमी	Leaves & bark	EN
59	Valeriana jatamansi (= V. wallichii)	Mushkbala, Nihani, Tagar, Somak मुशकबाला, निहानी, तगर, सोमाक	Rhizome & Roots	VU
60	Zanthoxylum armatum (= Z. alatum)	Tumru, Tirmir तुमरू, तिरमिरा	Fruits, Leaves	

Aber:

CR= Critically Endangered

EN= Endangered

VU= Vulnerable

* Source : Shimla CAMP WORKSHOP

(Conservation Assessment & Management Prioritisation
of Medicinal Plants of Himachal Pradesh - Dec., 2010)



Berberis aristata



Gentiana kurroa



Dactylorhiza hatagirea



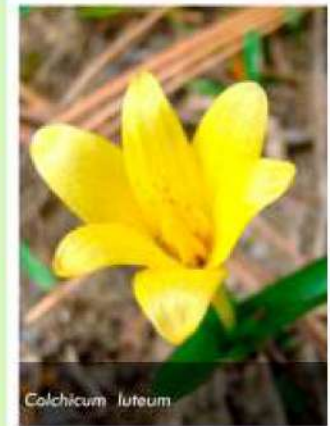
Lilium polyphyllum



Aconitum heterophyllum



Podophyllum hexandrum



Colchicum luteum



Picrorhiza kurroa



Melaxis muscifera



Bergenia stracheyi



Ferula jaeschkeana



Arnebia euchroma



Jurinea dolomieuana



Hyoscyamus niger



Juniperus communis



Allium stracheyi



Nardostachys grandiflora



Zanthoxylum alatum



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