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ESTIMATION OF CURRENT STATUS OF FLORAL BIODIVERSITY AT M.J.B COLLEGE CAMPUS INDORE WITH SPECIAL REFERENCE TO MEDICINAL AND ORNAMENTAL PLANTS

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Abstract

The traditional knowledge started from Vedic Time (1000-5000B.C.) Our epics Ayurveda, Rigvade, Yagurveda were reported Plants used as a medicinal plant. These medicinal plants were used by Tribal people, villagers, Urban of India. The traditional knowledge of medicinal plants of Tribals are transferred from one gene ration to other generation. Plants have medicinal value too along with ornamental purpose. Indians have been using plants as medicines to treat many diseases like wounds healing, inflammation. The ancient science of Ayurveda and Yoga relied heavily on these plants to treat major conditions, from pain management to weight management and everything in between. The list of medicinal plants too long but some important which are present in our college campus are Aloevera, Awala, Hadjod, Tulsi, Giloy, Neem Arjun, Bel, Ashwagandha. The large numbers of plant i.e. plant vegetations enormous in the college campus which shows the biodiversity of college campus.

Keywords: Biodiversity; Medicinal Plants; College Campus.

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1. Introduction

Biodiversity is the degree of variation of life forms within a given ecosystem, biome, or on an entire planet. Biodiversity is not consistent across the Earth planet. India has been recognized as one of the 12-megadivesity countries of the world and it is estimated that these 12 countries possess 70% of the world total flowering plants (Mc Neely et al., 1990). Chowdhary and Murti (2002) have pointed out that approximately 17,500 species of angiosperms occur in India. This paper deals with the medicinal uses of more than twenty plants species which are mainly found in college

campus and also practical knowledge of medicinal value of different plant species which growing around us.

2. Methodology

Biodiversity survey of college campus was conducted throughout the year 2018-19. In this survey the information on the use of medicinal plants and ornamental purposes was gathered from time to time. The information was recorded in which include name of Family, Botanical name, local name of plant, plant part used in medicine etc. specimens were collected for making herbarium sheets by standard method. The plant specimens were identified with the help of Floras. (Hooker et al 1872-1897). Duthie (1973) and other standard literature.



Eucalyptu globules. Nilgiri.



Azadirachta indica Neem



Catharanthus rosus Sadabahar



Tridex procumbens

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Observation Table

S.N.	Botanical	Vernacular	Famaily	Medicinal Uses
	Name	Name		
1	Abitulon indicum	Kanghi	Malvaceae	laxative, diuretic, sedative, astringent, expectorant, tonic, anti-inflammatory, anthelmintic,
2	Acacia nilotica	Babul	Mimosaceae	Malaria fever. skin diseases and piles, Tender twigs are used as tooth - brush
3	Aegle marmelos	Bel	Rutaceae	diarrhoea. Pulp of ripe fruits mixed with water for making 'Sharbat' Tender leaves are used to prepare 'Chutney'
4	Achyranthes aspera Linn.	Latjira, Hathjira	Amaranthaceae	Stem is used as a toothbrush. Root juice helps in the treatment of snake bite, scorpion bite etc.
5	Aloe berbandis Mill.	Ghrtkumari	Liliaceae	A jelly like substance applies directly upon wounds and burned skin, as moisturizer, digestive juice.
6	Azadirachta indica Meliaceae	Neem	Meliaceae	for leprosy, eye disorders, bloody nose, intestinal worms, stomach upset, loss of appetite, skin ulcers, diseases of the heart and blood vessels (cardiovascular disease), fever, diabetes, gum disease
7	Barleria prionitis Linn.	Deo katas	Acanthaceae	In powder form given in dental carries
8	Boerhaavia diffusa Linn.	Vishkhapra	Nyctaginaceae	Leaves help to cure jaundice and kidney
9	Cassia tora Linn.	Puwada	Fabaceae	skin diseases such as leprosy, ringworm, itching, & psoriasis and also for treatment of snakebite and arthritis.
10	Calotropis procera	Madar	Asclepiadaceae	cure cough. Latex applied to remove thrown from legs.
11	Cathranthus rosus	Sadabahar	Apocynaceae	Diabetes
12	cissus quadrangularis	. Hadjod	Vitaceae	Anti-Inflammatory, Anti- Osteoporotic, Antioxidant, Anti- Ulcer: BoneHealing Central Nervous System Activity:
13	Emblica officinalis	Amala	Euphorbiaceae	Diabetes, respiratory disorder, diarrhea, heart diseases, and dental disease. Amla cleanses the mouth, strengthens, rich in Vit. A,C

14	<u>Psidium</u>	Amrud	Myrataceae	Digestive, toothache, Diabetes, rich
	guajava – Linn			in Iron
15	Eucalyptus	Nilgirir	Myrataceae	Oil used in cough cold
	globulus			
16	Mangifera	Aam	Anacardiaceae	Unripe fruits used in dysentery, rich
	indica Linn			in Vit A
17	Ocimum	Tulsi	Labiateae	herbal tea for cough, cold cancer
	tenuiflorum			
18	Tribulus	Gokharu	Zygophyllaceae	Dried fruit powder is taken with
	terrestris Linn.			honey in urinary, kidney trouble and
				stone trouble
19	Tinospora	Giloy	Menispermiaceae	Skin diseases, Cure gastro-
	cordifolia			intestinal disorders: Panacea for
				liver diseases, Stress management,
				Diabetes urinary infection
20	Tridax	Mamaji ki	Asteraceae	To cure urinary problem in male
	procumbens	mundi		and also in hair fall problems
	Asteraceae			

3. Result and Discussion

In the present biodiversity survey provides medicinal values of the medicinal plants used to cure various diseases and ailments. The twenty mentioned plant species belong to different families. Most of the plant species are wild and few of them are cultivated and used as spices, vegetables, and medicines. As per the survey, we can conclude that there are so many medicinal plants available in college campus which are too much beneficial for health purpose and can provide easy source for phonological studies.

It also shows that the college campus has a great diversity of medicinal plants with different medicinal properties. They utilize numerous plants and their various parts viz, roots, leaves, stems, flowers and fruits in various ways for the medicinal purposes because medicinal plants and their extracts have immense potential for the management and treatment of various diseases as well as the phytomedicines that are used by the local people for various diseases

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