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A Study on Medicinal Trees Found in Rajeev Gandhi South Campus, Barkaccha, Mirzapur

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ABSTRACT

In this study a survey of the plants was conducted to identify the medicinal trees found in the Rajeev Gandhi South Campus of Banaras Hindu University, Barkaccha, district Mirzapur, Uttar Pradesh. Total fifty three trees of twenty five families were identified. It was observed that highest numbers of trees belonged to the family of Fabaceae. The medicinal importance of identified trees have also evaluated on the basis of Ayurvedic classics and published research work and it is observed that each species have certain medicinal value. It is further observed that those trees have efficacy to cure diseases like oedema, skin diseases, diarrhoea, fever, intrinsic haemorrhage etc.

KEYWORDS

Medicinal, Tree, Mirzapur, Inflammation



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INTRODUCTION

Plants are an important gift of nature, its multidimensional uses makes them as an essential part of human life, nobody can survive without plants, and it is used as a food as well as medicine. Plants are an important source of medicine¹ since Vedic period. Every Plants and their part have certain medicinal value. As per World Health Organization (WHO) more than 80% population of the words is dependent on traditional system of medicine for their primary health care need². It is reported that about 21,000 plants are in use as medicinal substance throughout the world, and in India about 8000 plants are used as medicinal substances of them, 1500 plants are place in Ayurvedic classics. In a preliminary survey it is observed that the south campus of BHU have good number of trees, which are naturally present there. The Rajeev Gandhi South Campus of Banaras Hindu University is located in village Barkaccha of district Mirzapur. It is situated about 8 km South West of Mirzapur city on the way of Robertsganj highway and about 80 km from Varanasi. Physiographically the area of campus lies in Vindhyan plateau, the climate of this area is mostly dry in nature. Normally winter season is short and it is in between Dec to Feb and summer is long, it is from March to

November³. Temperature rises up to 50°C and drops to 4°C during winters. On an average rainfall is 1059 mm of which 90% is received by southwest monsoon (Jun-Sep). The normal period of onset of monsoon in this region is last week of June which lasts up to the end of September or sometimes up to mid of October. Rainfall is very unpredictable sometimes causing drought periods of different degrees and durations. The natural vegetation of RGSC is mainly dominated by the herbs, shrubs and trees. Some area is being used by KrishiVigyan Kendra for cultivation crops. The entire area of the campus was served as study material and it can be divided into metalled and unmetalled road, agriculture land, waste land and forest area.

MATERIALS AND METHODS

The entire area of the South campus was surveyed as study material. During survey of the area, photographs of whole plants and its branches, leaves, flowers, fruits and seeds, especially the part of the plants used in medicines were taken. The Herbarium sheets were also preserved considering their parts, complete plants in case of small herbs and branches of suitable size in flowering and/or fruiting stage for trees, climbers and shrubs were collected. Complete field notes was prepared regarding the habit, habitat,



height, flowering, fruiting season and some other special features of the plants with any specific information from local habitants of the surrounding areas. The plants specimen was identified with the help of keys and descriptions given in various floras and monographs. A list of plants was prepared with Classical Name, English Name Botanical name, Family, Part used and uses.

RESULTS AND DISCUSSION

In the present study total fifty three tree species of twenty five families has been identified and each species reported to have medicinal value. The most useful parts of these trees was bark and leaves and it was also noticed that these plants have ability to

cures diseases like Diarrhoea, Skin diseases, Asthama, Intrinsic haemorrhage, Worm infestation, Fever, Oedema, Cough as described in table no.1. During study, it is also observed that maximum twelve trees are belonging to family Fabaceae followed by Moraceae (5) Euphorbeaceae (4) Verbenaceae, Apocynaceae (3) each and Bignoniaceae Combretaceae, Lytheraceae, Meliaceae, Rutaceae, Sapotaceae(2) each, whereas only a single tree in the family Anacardiaceae, Annonaceae, Bombacaceae, Boraginaceae, Capparidaceae, Caricaceae, Moringaceae, Myrtaceae Oleaceae, Poaceae, Rubiaceae, Samydeaceae, Simaroubaceae and Urticaceae were found.

Table 1 List of Trees found in Rajeev Gandhi South Campus, Barkaccha, Mirzapur.

S. No	Classical Name	English Name	Local Name	Botanical Name & Family	Part used	Medicinal Uses as found in Ayurvedic classics
1.	Aamra	Mango	Aama	<i>Magnifera indica</i> Linn Anacardiaceae	Bark Fruit Leaves Seed	Diarrhoea ⁴ Epistaxis ⁵ Spleen enlargement ⁶ Vomiting ⁷ Gonorrhoea ⁸
2.	Kaasthdaaru	Mast Tree	False Ashoka	<i>Polyalthia longifolia</i> Thw. Annonaceae	Bark	Worms ⁹
3.	Saptaparna	Dita	Chitvana	<i>Alstonia scholaris</i> R.Br. Apocynaceae	Bark Latex Flower	Fever ¹⁰ Asthama ^{11, 12} Kustha ¹³
4.	Sarpagandha	Rauvolfia Root / Serpentina Root	Dhavalabaruaa	<i>Rauvolfia serpentine</i> Benth.Ex. Kurz Apocynaceae	Root	Mental disorders ¹⁴ Rat Poisoning ¹⁵
5.	Kutaja	Kurchi/ Ester tree, Conessi bark	Kuda	<i>Wrightia tomentosa</i> Roem. &Schult Apocynaceae	Bark Leaves	Snake bite and scorpion stings ¹⁶ as diaphoretic, dysentery ¹⁷
6.	Patala	Trumpet Flower Tree/	Adhakaparee	<i>Stereospermum suaveolens</i> Dc. Bignoniaceae	Root Leaves Flower s	Calculus ¹⁸ Retention of Urine ¹⁹ Wound ²⁰



		Yellow Snake Tree			Fruit	Inflammation ²¹ Hiccough ²²
7.	AakashaNimba	Indian Cork tree	NeemChameli	<i>Millingtonia hortensis</i> Linn. Bignoniaceae	Root Leaves	Asthama, Fever ²³
8.	Shalmali	Silk-cotton; red cotton tree	Semal	<i>Salmella malabarica</i> (DC.) Schoot and Endl. Bombacaceae	Root Bark Flower Petioles Thorns	Diarrhoea ^{24,25} Intrinsic haemorrhage ²⁶ Freckles ²⁷ Wound ²⁸
9.	Shleshmantaka	Sebesten	Lisora	<i>Cordia dichotoma</i> Forst. f. Boraginaceae	Root Bark Fruit Seed-oil	Spider poisoning ²⁹ Intrinsic haemorrhage ³⁰ Erysipealas ³¹ Greying of hairs ³²
10.	Varuna	Three Leaved Caper	Barna	<i>Crataeva nurvala</i> Buch.-Ham Capparidaceae	Bark Leaves	Erysipealas ³³ Calculus ³⁴ Piles ³⁵
11.	Erandakarkati	Papaya	Papita	<i>Carica papaya</i> Linn Caricaceae	Fruit Seed Leaves Latex	Dengue Fever, Indigestion, Diarrhoea, Piles ³⁶
12.	Vibhitaki	BelliricMyrobalan	Baheda	<i>Terminalia bellerica</i> Roxb. Combretaceae	Fruit Seed	Cough and Asthma ³⁷ Oedema ³⁸ Vitiligo ³⁹ Corneal opacity ⁴⁰
13.	Arjuna	Arjuna Tree	Koha, Arjun	<i>Terminalia arjuna</i> W.&A. Combretaceae	Bark	Heart disease ⁴¹ Skin disease ⁴² Intrinsic haemorrhage ⁴³ Kustha ⁴⁴
14.	Aamalaki	Indain Gooseberry/ EmblicMyrobalan	Aavala	<i>Embelica officinalis</i> Gaertn. Euphorbeaceae	Fruit Seed	Fever ⁴⁵ Piles ⁴⁶ Anaemia ⁴⁷ Jaundice ⁴⁸ Hiccough ⁴⁹ Heart disease ⁵⁰ Hyperacidity ⁵¹ Rasayana ⁵²
15.	Kampillaka	Kamala Tree	Kamala, Sindur	<i>Mallotus philipinensis</i> Muell-Arg. Euphorbiaceae	Dried glands covering the mature fruits,	Worms ⁵³ Wound ⁵⁴
16.	Putrajivka	Wild Olive	Jiyapota	<i>Putranjiva roxburghii</i> Wall. Euphorbiaceae	Seed Leaves	Filaria ⁵⁵ Punsavana Karma (Providing male child) ⁵⁶
17.	Eranda	Castor oil plant	Arandi	<i>Ricinus communis</i> Linn. Euphorbiaceae	Root Leaves Seed oil	Fever ⁵⁷ Constipation ⁵⁸ Obesity ⁵⁹ Gout ⁶⁰ Rheumatoid arthritis ⁶¹



18.	Babbula	Indian gum Arabic tree	Baboola	<i>Acacia Arabica</i> Wild. And <i>Acacia nilotica</i> Delile & ssp. Fabaceae	Leaves Fruit Seed Bark	Diarrhoea ⁶² Obesity ⁶³ Soft Chancre ⁶⁴
19.	Kadara (ShwetaKhadi ra)	White Cutch tree / White Catechu	Vita khaira	<i>Acasia suma</i> Buch-Ham Fabaceae	Heart- wood	Diabetes ^{65,66}
20.	Khadira	Black catechu/ Cutch tree	Khaira	<i>Accacia catechu</i> Wild. Fabaceae	Root Heart- wood Flower s	Kustha ^{67,68} Vitiligo ⁶⁹ Diseases of Mouth ⁷⁰
21.	Shirisha	Siris Tree/ Lebeck Tree	Sirisa	<i>Albizia lebbeck</i> Benth. Fabaceae	All parts	Asthama ⁷¹ Kustha ⁷² Worms ⁷³ Headache ⁷⁴
22.	Kovidara	camel's foot tree; butterfly tree	Kachnara	<i>Bauhinia purpurea</i> Linn. Fabaceae	Flower Root	Intrinsic haemorrhage ⁷⁵ Snake Poisoning ⁷⁶
23.	Kanchnara	Mountain Ebony	Kachnara	<i>Bauhinia variegata</i> Linn. <i>Bauhinia acuminata</i> L. <i>Bauhinia racemosa</i> Lamk. Fabaceae	Bark	Glandular enlargement ⁷⁷
24.	Palasha	Flame of the forest / Bastard peak	Tesu, Dhak	<i>Butea monosperma</i> (Linn.) Kuntze. Fabaceae	Leaves Flower Seed Root	Diarrhoea ⁷⁸ Worms ⁷⁹ Intrinsic haemorrhage ⁸⁰
25.	Aaragvadh	Purging Cassia/ Indian Laburnum	Amaltas	<i>Cassia fistula</i> Linn Fabaceae	Fruit- pulp Root - Bark Leaves	Fever ⁸¹ Prameha ⁸² Kustha ⁸³ Wound ⁸⁴ Erysipealas ⁸⁵
26.	Shinshapa	Indain Rosewood / Sissoo Tree	Shisama	<i>Dalbergia sissoo</i> Roxb. Fabaceae	Heart- wood Leaves	Fever ⁸⁶ Prameha ⁸⁷ Sciatica ⁸⁸
27.	Karanja	Indain Beech	Dithouri	<i>Pongamia pinnata</i> (Linn.) Pierre. Fabaceae	Fruit Root Leaves Bark	Intrinsic Haemorrhage ⁸⁹ Piles ⁹⁰ Skin diseases ⁹¹ Wounds ⁹² Loss of hairs ⁹²
28.	Agastya	Agathi, Vegetableh uming bird.	Agati	<i>Sesbania grandiflora</i> Retz. Fabaceae	Leaves Flower s Bark	Fever ⁹⁴ Night Blindness ⁹⁵
29.	Amlika	Tamarind	Emali	<i>Tamarindus indica</i> Linn Fabaceae	Fruits Leaves Seeds	Bleeding Piles ⁹⁶ Swelling due to injury ⁹⁷ Abdominal Lump ⁹⁸
30.	Siddhaka	Crepe Myrtle	Dhaura	<i>Largerstroemia parvifolia</i> Roxb. Lytheraceae	Bark	Lactation related problem
31.	Jarula	Queen's crepe- myrtle	Jarul	<i>Lagerstroemia speciosa</i> Linn. Lytheraceae	Root Bark Fruit	Diarrhoea, Fever, Mouth ulcer ⁹⁹



						Seed
32.	Nimba	Margosa Tree / Indian Lilac / Neem Tree	Neem	<i>Azadirachta indica</i> A.juss. Meliaceae	All parts	Fever ¹⁰⁰ Wound ¹⁰¹ Gout ¹⁰² Kustha ¹⁰³ Prameha ¹⁰⁴
33.	Mahanimba	Bead Tree / Persian Liliac	Bakain	<i>Melia azedarachta</i> Linn. Meliaceae	Root Leaves Seeds	Sciatica ¹⁰⁵
34.	Panasa	Jack Tree	Katahala	<i>Artocarpus hetrophyllus</i> Lam. Moraceae	Seed	Aphrodisiac ¹⁰⁶
35.	Vata	Banyan tree	Bargad	<i>Ficus bengalensis</i> Linn. Moraceae	Bark Latex Leaf Leaf – bud Hangin g-root	Diarrhoea ¹⁰⁷ Bony growth ¹⁰⁸ Pradara ¹⁰⁹ Intrinsic Haemorrhage ¹¹⁰ Wound ¹¹¹
36.	Udumbara	Cluster Fig / Country Fig	Goolar	<i>Ficus glomerata</i> Roxb. Moraceae	Bark Fruit Latex	Diarrhoea ^{112,113} Intrinsic haemorrhage ¹¹⁴ Hiccough ¹¹⁵ Miscarriage ¹¹⁶
37.	Plaksa	Java fig	Pakada	<i>Ficus lacor</i> Buch-Ham Moraceae	Bark Leaves	Menorrhagia ¹¹⁷ Bloody Diarrhoea ¹¹⁸ Erysipelas ¹¹⁹ Wound-healing ¹²⁰
38.	Ashvatha	Pipal tree	Peepal	<i>Ficus religiosa</i> Linn. Moraceae	Bark Fruit Leaf Bud Seed	Vomiting ¹²¹ Gout ¹²² As Aphrodisiac ¹²³ Mouth ulcer ¹²⁴ Wound ¹²⁵ Prameha ¹²⁶
39.	Shigru	Drum stick Plant/ Horseraddi sh Tree	Sahijan	<i>Moringa oleifera</i> Lam. Moringaceae	Root Bark Fruit Leaves Flowers Seed	Hiccough and Asthma ¹²⁷ Oedema, Piles, Skin diseases ¹²⁸ Calculus ¹²⁹ Eye diseases ¹³⁰
40.	Jambu	Jambul tree	Jamun	<i>Syzygium cumini</i> (Linn.) Skeels Myrtaceae	Leaves Bark Fruit Seed	Diarrhoea ¹³¹ Intrinsic haemorrhage ¹³² Wound healing ¹³³
41.	Paarijaat	Indain Coral Tree / Tree of Sorrow	Harshingar	<i>Nyctanthes arbotrisis</i> Linn Oleaceae	Root Leaves Bark Alkali	Prameha ¹³⁴ Sciatica ¹³⁵ Splenomegaly ¹³⁶
42.	Vansa	Bamboo	Baasa	<i>Bambusa arundinacea</i> willd. (Retz.) Roxb. Poaceae	Root Nodes leaves Fruits	Prameha ¹³⁷ Amenorrhoea ¹³⁸ Eye diseases ¹³⁹ Rabies ¹⁴⁰
43.	DharaKadamba	Kaim	Doolikadamba	<i>Mitragyna parvifolia</i> (Roxb.) Rubiaceae	Root Bark, Leaves Fruit	Bleeding disorder Fevers colic, muscular pains



44. Bilva	IndainQuin ce/ BengalQui nce/ Bael Fruit	Bel	<i>Aegle marmelos</i> Correa Rutaceae	Fruit Leaves Root	Diarrhoea ^{141,142} Piles ¹⁴³ Jaundice ¹⁴⁴ Deafness ¹⁴⁵
45. Jambira	Lemon of India	Nimbu	<i>Citrus limon</i> (L.) Burm. Rutaceae	Fruit	Indigestion ¹⁴⁶ Acidity ¹⁴⁷
46. Chilhaka	Toothed Leaf Chilla,	Chilla	<i>Casearia tomentosa</i> Roxb. Samydaceae	Fruit Bark	As Tonic Fruit juice Fish Poisons ¹⁴⁸
47. Madhuka	The Indian Butter tree/ Mahawash tree	Mahuaa	<i>Madhuca indica</i> J.F.Gmel. Sapotaceae	Flower Bark Fruit	Intrinsic Haemorrhage ¹⁴⁹ Thirst ¹⁵⁰ Conjunctivitis ¹⁵¹ Corneal opacity ¹⁵²
48. Bakula	Indian Medlar	Maulsari	<i>Mimuspos elengi</i> Linn. Sapotaceae	Bark Seed	Dental problem ¹⁵³
49. Aralu	Tree Of Heaven	Ghodaneem	<i>Ailanthus excels</i> Roxb Simaroubaceae	Bark	Diarrhoea ¹⁵⁴ Balroga ¹⁵⁵ Poisoning ¹⁵⁶
50. Chirabilva	Indian elm	Chirbil	<i>Holeptelia integrifolia</i> Planch Urticaceae	Bark Leaves Leaf – bud Seeds	Abdominal lump and pain ¹⁵⁷ Wound ¹⁵⁸ Filaria ¹⁵⁹ Worms ¹⁶⁰
51. Gambhaari	Candahar Tree, Cashmere Tree	Gambhar, Gamhar	<i>Gmelina arboria</i> Roxb. Verbenaceae	All parts	Fever ¹⁶¹ Diarrhoea ¹⁶² Bleeding Piles ¹⁶³ Gout ¹⁶⁴
52. Shaaka	Indian Teak	Sagun	<i>Tectona grandis</i> Linn.f. Verbenaceae	Seed Bark	Miscarriage ¹⁶⁵ Calculus ¹⁶⁶
53. Nirgundi	Five Leaved Chaste /Indian Privet	Sinduar	<i>Vitex negundo</i> Linn. Verbenaceae	All parts	Cough and Asthama ¹⁶⁷ Cervical adenitis ¹⁶⁸ Lumbago ¹⁶⁹

CONCLUSION

The Rajeev Gandhi South campus of Banaras Hindu University is situated in Village Barkaccha of district Mirzapur. Physiographically the area of the campus lies in Vindhyan Plateau and is rich in biodiversity. The entire area of the campus was surveyed for identification of medicinal trees. Total fifty three trees of twenty five family are identified which

have several medicinal value as describe in Table no.1



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