

madiculous, aesthetic or knowledge based ground which is divine gift to cradle for future endeavour.

Table A: Includes the list of medicinal plant species at Sariska Tiger Reserve

S.No	Name of the species	Families	Vernacular name	Part used	Medicinal properties	Purpose of use
1.	<i>Abrus precatorius L.</i>	Papilionaceae	Chirmi/Ratti	seeds	purgative and aphrodisiac	nervous disorder
2.	<i>Acacia catechu Willd.</i>	Mimosoaceae	Khair	exudate	-	difficult child birth
3.	<i>Acacia farnesiana (L.) Willd.</i>	Mimosoaceae	Vilati babul	bark	astringent	cough, renal dropsy, bronchial infection
4.	<i>Achyranthes aspera L.</i>	Amaranthaceae	Chirchitta	whole plant	-	cough and colds
5.	<i>Adhatoda zeylanica Medic</i>	Acanthaceae	Adulsa	leaves	expectorant	bronchitis
6.	<i>Aegle marmelos (L.) Corr.</i>	Rutaceae	Bel	fruit pulp	cooling, laxative and digestive	chronic diarrhoea and dysentery
7.	<i>Ailanthus excelsa Roxb.</i>	Simaroubaceae	Adu	root/stem bark	-	fever / coughs
8.	<i>Ammania baccifera L.</i>	Lythraceae	-	whole plant	-	guinea worm expulsion
9.	<i>Anogeissus pendula Edgew.</i>	Combretaceae	Dhok	stem bark	-	gastric disorder
10.	<i>Argemone mexicana L.</i>	Papaveraceae	Kateli	root	laxative	chronic skin disease
11.	<i>Asparagus adscendens Roxb.</i>	Liliaceae	Safed musli	roots fasciculated	demulcent	diarrhoea and dysentery
12.	<i>Azadirachta indica A. Juss.</i>	Meliaceae	Neem	leaves twigs	prophylatic	leprosy and skin diseases
13.	<i>Bacopa monnieri (L.)</i>	Scrophulariaceae	Brahmi	whole plant	potent diuretic tranquilizer	insanity, epilepsy cardiac tonic and nerve tonic
14.	<i>Balanites aegyptica (L.) Delile</i>	Simaroubaceae	Hingot	seed	hypotensive source of diosgenin	oral contraceptives
	<i>Name of the species</i>	<i>Families</i>	<i>Vernacular name</i>	<i>Part used</i>	<i>Medicinal properties</i>	<i>Purpose of use</i>
15.	<i>Bauhinia racemosa Lamk.</i>	Caesalpiniaceae	-	stem bark	toxic	weakness
16.	<i>Boswellia serrata Roxb.</i>	Burseraceae	Salar	exudate gum	-	-
17.	<i>Bridella retusa (L.) Spr.</i>	Euphorbiaceae	-	leaves	suppository	-

18.	<i>Butea monosperma</i> (Lamk.) Taub.	Papilionaceae	Dhak	seeds gum	anthelminthic diarrhoea	-
19.	<i>Calotropis gigantea</i> (L.) R. Br.	Asclepiadaceae	Aak	root bark	dysentery diaphoretic	skin diseases
20.	<i>Calotropis procera</i> (Ait.) R. Br.	Asclepiadaceae	Aakada	root bark flowers powdered	expectorant diaphoretic	cough and asthma
21.	<i>Capparis sepiaria</i> (L.)	Capparaceae	-	roots	-	decay of tooth and jaws
22.	<i>Cardiospermum halicacabum</i> (L.)	Sapindaceae	Kanphuti	whole plant	-	stiffness of limbs, earache, rheumatism
23.	<i>Cassia fistula</i> (L.)	Caesalpiniaceae	Amaltas	fruit pulp	purgative laxative	-
24.	<i>Celastrus paniculatus</i> Willd.	Celastraceae	Malkagni	seeds	laxative stimulant aphrodisiac	leprosy and rheumatism
25.	<i>Cayratia trifolia</i> L.	Vitaceae	-	roots	-	diabetes
26.	<i>Citrullus colocynthis</i> (L.) Schard	Cucurbitaceae	Indrayan	roots fruits-pulp	purgative	jaundice, urinary diseases, antibacterial
27.	<i>Cocculus pendulous</i> (J.R. & Frost) Diels.	Menispermaceae	-	roots	-	Intermittent fever
28.	<i>Commiphora wightii</i> (Arn.) Bhandari	Burseraceae	Guggal	oleo-resin exudate	expectorant aphrodisiac carminative	lower blood cholesterol
29.	<i>Cuscuta reflexa</i> Roxb.	Cuscutaceae	Amerbel	stem	-	tonsilites
30.	<i>Cyperus rotundus</i> L.	Cyperaceae	Moth	rhizome	-	-
31.	<i>Derris indica</i> (Lamk.) Bennet.	Papilionaceae	-	leaves	-	dandruff and hair tonic
32.	<i>Desmodium gangeticum</i> (L.) Dc.	Papilionaceae	-	roots and seeds	febrifuges anticatarrhatic	-
33.	<i>Eclipta prostrata</i> (L.) Linn.	Asteraceae	Bhrangra	plant juice	-	jaundice and hair tonic
34.	<i>Emblica officinalis</i> Gaertn.	Euphorbiaceae	Amla	fruit raw	diuetic and laxative	-
35.	<i>Euphorbia hirta</i> L.	Papilionaceae	Laldudhi	whole plant	-	bronchial infection, cough, asthma and wormicide in children
36.	<i>Gymnema sylvestris</i> (Retz.) Schult.	Asclepiadaceae	Gurmar	leaves	antidiabetic	blood sugar reducing
37.	<i>Holarrhena antidysentrica</i> (L.) Wall ex. Dc.	Apocynaceae	-	leaves + unripe fruit	-	biliousness dysentery and diarrhoea
38.	<i>Martynia annua</i> L.	Martyniaceae		seeds oil leaves and fruits	-	scabies, eczema and dysentery
39.	<i>Moringa oleifera</i> Lamk.	Moringaceae	Sainjana	seed oil	-	acute rheumatism
40.	<i>Nyctanthes arbor-tristis</i> L.	Nyctanthaceae	Kali tulsi	seeds	diuretic, tonic cooling	-

41.	<i>Ocimum sanctum L.</i>	Lamiaceae	Tulsi	leaves juice / infusion	-	bronchitis digestive complaint and cold
	<i>Name of the species</i>	Families	Vernacular name	Part used	Medicinal properties	Purpose of use
42.	<i>Oldenlandia corymbosa L.</i>	Rubiaceae	-	whole plant	-	in fever and jaundice
43.	<i>Pavonia odorata Willd.</i>	Malvaceae	-	whole plant	-	rheumatism
44.	<i>Plumbago zeylanica L.</i>	Plumbaginaceae	-	roots	an appetizer	diarrhoea, piles and scabies ulcers
45.	<i>Sapindus emarginatus Vahl.</i>	Sapindaceae	Ritha	leaves	-	colic pain due to indigestion diarrhoea, paralysis of limbs.
46.	<i>Solanum nigrum L.</i>	Solanaceae	Makoi	whole plant	-	anema in infant having abdominal upset, cirrhosis of liver
47.	<i>Soymida febrifuga A. Juss.</i>	Meliaceae	Rohan	bark	stimulant	diarrhoea dysentery
48.	<i>Sterculia uren Roxb.</i>	Sterculiaceae	Kadaya	exudate	laxative	-
49.	<i>Tamarindus indica L.</i>	Caesalpiniaceae	Imili	fruit pulp leaves	carminative, antibiotic, refrigerant and laxative	swelling and boils
50.	<i>Terminalia belirica (Gaertn.) Roxb.</i>	Combretaceae	Bahera	fruit pulp unripe fruit	purgative	purgative
51.	<i>Tribulus terrestris L.</i>	Zygophyllaceae	Gokhru	fruit	diuretic and tonic	stone in urinary bladder
52.	<i>Tridax procumben L.</i>	Asteraceae	-	leaves	-	cuts and wound
53.	<i>Withania somnifera (L.) Dunal</i>	Solanaceae	Aswgandh	leaves and roots	tonic/diuretic and antibacterial	joints pain/headache and rheumatism
54.	<i>Syzygium cumini (L.) Skeels.</i>	Myrtaceae	-	bark	-	diarrhoea and dysentery

4. Acknowledgement

Author has deep sense of gratitude to his supervisor Director Indira Gandhi centre for Human Ecology and Population studies, University of Rajasthan, Jaipur for their able guidance during the research tenure and also thankful to Dept of forest, Government of Rajasthan and field director to sariska and other staff members.

References

- [1] Anon, 2000. Report of the task force on conservation and sustainable use of medicinal plants. Planning Commission, Government of India, New Delhi.
- [2] Champion, H.G. and Seth, S.K., 1968. A revised survey of the forest type of India. Government of India Press, Delhi, pp. 404.
- [3] Dennis, T.J., Billore, K.V. and Mishra, K.P., 1997. Pharmacognostic study on gum-oleo-resin of *Boswellia serrata* Roxb. Reprint Bulletin **1(3)** : 353-360.
- [4] Jain, S.K. and Kotwal, N., 1960. On the vegetation of Shahabad in Rajasthan, Indian Forester, **Oct.** 602-608.
- [5] Jain, S.K., 1970. Flora composition of Rajasthan – A review. Bull. Bot. Surv. India 12 : 176-187.
- [6] Khan, T.I., 1995. Tropical deforestation and its consequences with reference to biodiversity in India. The Int. Jour. of Environmental Edu. and information 14(1) : 31-44.
- [7] Katewa, S.S., 1996. Ecology of grazing land of Aravalli hills (south west Rajasthan). J. Environ. Bio. 17(1) : 43-50.
- [8] Mathur, K.B.L. and Saxena, V.S., 1968. The working plan of Bharatpur forest division. Government of Rajasthan, Jaipur, no. F.8 (11) Rev. A/68.
- [9] Mathur, V.B., 1991. Ecological impacts of livestock grazing on wild ungulates in Sariska National Park, India, IVth Congress International de Terres de parcours, Montpellier, France.
- [10] Nair, N.C. and Nathawat, G.S., 1957. Vegetation of Harshnath, Aravalli hills. The Journal of the Bombay Natural History Society 54(2).
- [11] Parmar, P.J., 1985. A contribution to the flora of Sariska Tiger Reserve, Alwar District Rajasthan. Bull. Bot. Surv. India 27(1-4) : 29-40.

- [12] Pandravada, S.R., Babu, B. Sarath, Sivaraj, N. Rao, G. Maheswara and Satyanarayana, Y.V.V., 2000. Species diversity and germplasm collection of medicinal plants from Eastern Ghats. *Indian Forester* **Nov.** 1191-1203.
- [13] Rodgers, W.A. and Panwar, H.S., 1988. Planing a wildlife protected area network in India Vol. I & II Wildlife Institute of Dehradun.
- [14] Rodgers, W.A., 1990a. A preliminary ecological survey of Algal spring, Sariska Tiger Reserve, Rajasthan. *Journal Bombay Natural. History Soc.* 87(2) : 201-210.
- [15] Rodgers, W.A., 1990b. *Capparis sepiaria* Linn. an important dry season fodder plant for wildlife. *Range Mgmt. and Agroforestry* 11(2) : 199-206.
- [16] Rodgers, W.A., 1991. A preliminary ecological survey of Algal spring, Sariska Tiger Reserve Rajasthan. *J. Bombay Nat. Hist. Soc.* 7 : 201-209.
- [17] Rodgers, W.A., 1991. The Management of protected area buffer zones for the maintenance of biodiversity. *Int. J. Sustainable Development*
- [18] Sharma, V.S., 1958. The flora of Ajmer (Rajasthan). *The Journal of the Bombay Natural History Society* 55: 1.
- [19] Sharma, Shiv, 1978. Studies in floral composition of Jaipur District, Rajasthan. *Indian Forester* 104(1) : 41-49.
- [20] Sharma, S., 1983. A contribution to the Botany of Ranthambore Tiger Reserve National park. Department of Environment, Government of India, New Delhi.

