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Medicinal Plants of Bangur P.G. College Campus and Nearby Area in Pali Rajasthan (India)

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Abstract: A study was undertaken to explore the medicinal flora of the Government Bangur P.G. College, Pali and nearby area. The native medicinal plants, and the medicinal plants of perennial duration dominated over medicinal plants of annual and biennial duration on the campus and nearby area. A total of 52 plant species belonging to 38 families were identified and recorded during the study. Study based on random surveys.

KEYWORDS: Plant, Medicinal, Leaf, Fruit, Root, Bark.

Rajasthan has rich biodiversity consisting of a large number of plants, some of which are used for their medicinal value. Although flora of Rajasthan has been complied by Bhandari (1978, 1990) and Sharma (2002) but detailed information about their medicinal properties are lacking. Rapid deforestation and exploitative trade of medicinal plants has significantly reduced the availability of the medicinal plants of Rajasthan (Srivastava, 1977; Sinha, 1999). Knowledge about the medicinal properties of these plants is confined only to local people. Generally the local people are well acquainted with the medicinal properties of their surrounding vegetation particularly for their well-being (Jain, 1991; Mishra and Kumar, 2001; Ashwani Kumar 2009; all Mishra & Shukla Afri; Sharma & Kumar 2011; Prateek and Trivedi 2011; Sharma and Chakraborty 2021; Jain et al. 2009; Gupta and Kumar 2002; Choudhary et. al. 2008; Sharma 2002; Goyal et. al. 2011).

The present paper is an attempt to prepare an index of all the medicinal plants of Bangur P.G. College, Pali Campus and nearby area, which will be helpful for chemists and pharmacologists to undertake for their research on these medicinal plants to explore the prospect of their exploitation on a commercial scale. It is also hoped that the information presented herein will also be useful for a layman, government and other agencies engaged in the economic development of the area.

Materials and methods: The information presented here in about the plants and their medicinal value is based on the

survey carried out by the author, experiences of the local inhabitants, practitioners and scattered literature. The plants are indexed in a uniform, systematically followed by their local names, family, part used and their medicinal value in consecutive columns. For achieving the goals of present study surveys were carried out form January 22 to December 22 for proper and reliable documentation photographs of observed plants were taken out. The species identification was based on various field guides.

Study area- Pali is a district of Rajasthan State (India) situated at 25.7781° N and 73.3311° E, the district covers an area of about 12,387 Kilometers. Pali district is surrounded by Nagur district, Rajsamand district, Jodhpur district, Sirohi district, Udaipur district and Ajmer district (fig-1). In Pali district the type of soil mainly found is sierozems (Sandy loam or clay) with an annual rainfall of 50-70 cm. (higher than desert).

Abbreviations used:

WP :	Whole plant
akJourna	Root
B cientifi	Bark
ch and :	Leaf
pment :	Flower
56 ^F r ₆ 470 :	7 Fruit
Sd :	Seeds
RB :	Root Bark
LO :	Leaf Oil
SO :	Seed Oil
Tu :	Tuber
Rh :	Rhizome
Gm :	Gum
Pd :	Pods
Th :	Thorns
St :	Stem

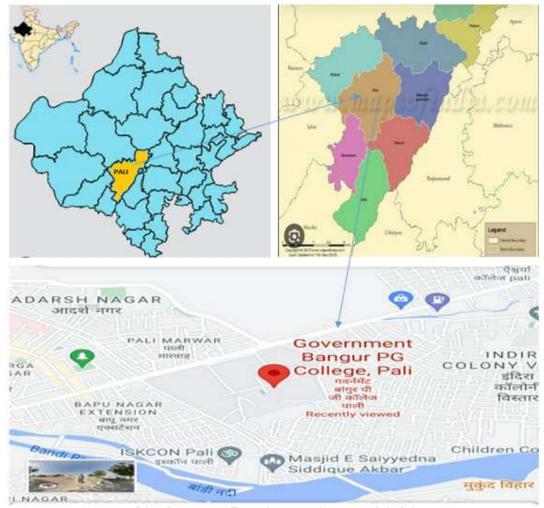


Fig-1: Figure Showing study area in the map.

Table: Index of medicinal plants of Bangur P.G. College, Pali Rajasthan, India and nearby area.

S. No.	Botanical Name/Local Name	Family	Parts Used	Traditional uses as medicine
1. Acacia nilotica Linn (Babool)		Minds the	B	Astringent, Demulcent
	Aggaig viloting Linn (Pahaol)		Gm	Asthma, Diarrhoea, Dysentery, Diabetes
	Mimosaceae	Th	Joint Pain, Heavy sweating	
		4000	Pd	Sexual impotency, Urino-genital disorders
2.	Aloe vera Linn Gheeganwar)	Liliaceae	WP	Rheumatism, Anthelmintic, Aphrodisiac Purgative, Alexiteric, Opthalmia
3.	Amaranthus virdis Linn (Janglichauli)	Amaranthaceae	L	Laxative
4.	Argemone maxicana Linn (Satyanasi)	Nelumbonaceae	WP	Diuretic, Purgative, Aphrodisiac, strangury, leukoderma
	Andionalta indian A Tura	Meliaceae	В	Anthelmintic, Maturant, Diuretic, Blood skin disease, Leprosy
5.	5. Azadirachta indica A. Juss (Neem)		L	Anthelmintic, Ulcers, Insecticidal, Opthalmia, Biliousness
			Fl	Anthelmintic
6.	Barleria cristata wight (Raktajhinti)	Acanthaceae	WP	Inflammation, fever, Bronchitis, Biliousness, Tympanitis
7.	Brassica campestir Linn	Brassicaceae	WP	Cholagogue, Vermifuge Leucoderma, Piles, Ulcer, Epilepsy, Toothache
/.	(Sarson)		SP	Rheumatism
8. <i>Ca</i>	Capparis deciduas Edgew, (Ker)	Capparaceae	WP	Carminative, Aphrodisiac, Appetisor, Emmenagogue, Alexipharmic, Lumbago, Rheumatism Hiccup.
			В	Analgesic, Diaphoretic, Alexiteric, Laxative, Anthelmintic, Ulcer, cough, Asthma, Piles
			Fr	Biliousness, Cardic troubles

9. (Sadabar) (Apocynaceae (Sadabar) (Apocynac		Cath avanthus voscus C. Don		D	Hymotonoisea Codative
Poaceae WP Astringent, Diuretic, Dropsy	9.		Apocynaceae		
11. Dotura stramonium Linn (Dhatura) Solanacea (Dhatura) S	10		Doggogo		
11. Ditatural candidation Solanacea Sd Asthma Anodyne Fr Sedative, Intoxicant, Carbuncles Carminative, Laxative, Appetizer, Alexipharmic, Carbundista Carminative, Laxative, Appetizer, Alexipharmic, Proceedings Polygonacea Polygonace	10.	Cynodon ductylon Fels (Dub)	roaceae	1	
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12. Euphorbia caduaifolia Linn (Thor) Euphorbiacea Euphorbiacea WP Billousness, Uler, Ersyphilis, Liver troubles Linn (Bargad) WP Billousness, Uler, Ersyphilis, Liver troubles Linn (Bargad) WP Euchorbea, Billousness, Uler, Syphilis, Liver troubles Linn (Bargad) WP Euchorbea, Billousness, Ulers WP Euchorbea, WP Eu		(Dhatura)	Solaliacea		
12. [Thor) Euphorbiacea WP Bronchitis, Tumours, Delirium, Leucoderma, Piles, Spelen enlargement, Amemia, Ulcer, fever Billousness, Ulcer, Erysipelas R Veginal complaints Fevers B Genorrhoea, Syphilis, Liver troubles L Diabetes S Ulcer, Legrosy, Piles, Cooling Tonic WP Leucorrhoea, Billousness, Ulcers RB Gout S Ulcer, Legrosy, Piles, Cooling Tonic WP Leucorrhoea, Billousness, Ulcers RB Gout S Ulcer, Legrosy, Piles, Cooling Tonic WP Leucorrhoea, Billousness, Ulcers RB Gout S Disease of Vagina and uterus Gout S Disease Disease			11		
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26. Murraya koenigii (Curry tree/Metha neem) Rutaceae L Anti-inflammatory, Heart and liver diseases, Hair, Anaemia, Diabetes L Anti-inflammatory L Anti-inflammatory	25		Menispermiaceae		
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B Antibacterial	27	Vacheillia nihtica (Rahool)	Fahaceae		
	47.	vacricinia monica (Dabbot)	1 avacede	В	Antibacterial

	T	ı	1	T
28.	Cordia myxa (Gondi/Lassura)	Boraginaceae	F	Asthma, Cough, Fever, Skin allergies.
29.	Calotropis procera R.Br.		R	Toothache
	(Madar/Ankra)	Asclepiadaceae	L	Stomachic
	(Madai/Mikra)		Fl	Appetiser, Piles, Asthma, Tonic
				Antidiabetic, Hepatoprotection Anti-diarrheal,
30.	Delonix regia (Gulmohar)	Fabaceae	L	Antifungal, Malaria, Pneumonia, Constipation,
				Rheumatoid, Arthritis
24	Prosopis cineraria Macbr	14:	В	Rheumatism
31.	(Khejri)	Mimosaceae	Pd	Astringent
	, ,			Increases haemoglobin, Digestive, Respiratory,
32.	Syzygium cumini (Jamum)	Myrtaceae	Fr	Cardic, Skin problems, Teeth, Gum, Diabetes
02.		n'iy reaccae	1	management.
	Eucalyptus globulus			Antibacterial, Antimicrobial, Decongestant, Pain
33.	(Eucalyptus globalus	Myrtaceae	L	reliever
	Salvadora persica			renever
34.		Salvadoraceae	L	Tooth aches, Decay Strengthens gums
	(Miswak/tooth brush)			
35.	Saraca asoca (Roxb) de wilde	Caesalpiniaceae	В	Uterine tonic, Menorrhagia, Sedative, Astringent
	(Ashoka)	•		
36.	Momordica charantia Linn	Cucurbitaceae	Fr	Diabetes
	(Karela)		L	Anti-helmintic, Piles, Jaundice
			_	Carminative, Flavouring agent, Antiseptic,
37.	Mentha piperita Linn (Podina)	Labiatae	WP	Refrigerant, body heat, Toothache, Intestinal
				worms.
38.	Lawsonia inermis Linn	Lythraceae	πm	Hair dye, Hair conditioner, Headache, Astringent,
30.	(Mehandi)	Lyunateae	ntic.	Gargle, Cooling
		5 111000	CITIE	Astringent, Anthelmintic, Diarrhoea, Dysentery,
39.	Punica granatum Linn (Anar) 左	Punicaceae	WP	Stomachic, Cough, Digestive, Piles, Pimples,
				Dysentery.
	Citrus aurantifolia Linn	à · IJTS	RI)	Refrigerant, Appetiser, Antiseptic, Stomachic
40.	(Nimbu)	Rutaceae	F	anti-ascorbic
	A S	Internation	But	
	Q 5	of Trend in	Scient	Eczema, Abdominal & liver problems
	Tecomella undulata (G. Don)	• Pocoard	h Sd	: 5 12
41.	Seem (Rakt Rohira)	Bignoniaceae	, II Sulu	Liver Complaints, laxative
	Seem (Nakt Rollina)	• Develo	ment em	Anthelmintic, Abscess, Ulcers, Blood and Eye
	Y 9		St	disease
	Alstonia scholaris R. Br.	- ISSN: 245	6-64/0	Febrifuge, Astringent, Malarial fever, Chronic
42.	(Saptparni)	Apocynaceae	В	dysentery, Diarrhoea
		9, 9000		
43.	Calotropis gigantean (L) W.	Asclepiadaceae	L	Rheumatism
	Aiton (Safed Oak)	Who have	Fl	Digestive problems
		. willing	R	Ulcer, Leprosy, Piles,
44.				
1	Nerium indicum Mill (Kaner)	Apocynaceae	L	Skin disease
	, ,	Apocynaceae	L RB	
45	Eclipta prostrata Linn		RB	Skin disease Skin disease
45.	Eclipta prostrata Linn (Bhringraj)	Asteraceae	RB L	Skin disease Skin disease Blood pressure, Cholesterol Hair growth
45. 46.	Eclipta prostrata Linn		RB	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold
	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru)	Asteraceae	RB L WP	Skin disease Skin disease Blood pressure, Cholesterol Hair growth
	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn	Asteraceae	RB L	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold
46.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru)	Asteraceae Pedaliaceae	RB L WP	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea,
46.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass)	Asteraceae Pedaliaceae Cyperaceae	RB L WP L Tu	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial
46.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy	Asteraceae Pedaliaceae	RB L WP L	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache,
46.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi)	Asteraceae Pedaliaceae Cyperaceae	RB L WP L Tu WP	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic
46. 47. 48.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb)	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae	RB L WP L Tu WP B	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic,
46.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb) Benth (Manila tamarind/Jalebi	Asteraceae Pedaliaceae Cyperaceae	RB L WP L Tu WP B L	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage
46. 47. 48.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb)	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae	RB L WP L Tu WP B L Fr	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage Astringent, Haemostatic
46. 47. 48.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb) Benth (Manila tamarind/Jalebi tree)	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae	RB L WP L Tu WP B L	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage
46. 47. 48.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb) Benth (Manila tamarind/Jalebi tree) Phyllanthus niruri Linn (Bhumi	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae Fabaceae	RB L WP L Tu WP B L Fr	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage Astringent, Haemostatic Ulcers, diarrhoea, Tuberculosis
46. 47. 48. 49.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb) Benth (Manila tamarind/Jalebi tree) Phyllanthus niruri Linn (Bhumi Amla)	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae	RB L WP L Tu WP B L Fr Sd	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage Astringent, Haemostatic
46. 47. 48. 49.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb) Benth (Manila tamarind/Jalebi tree) Phyllanthus niruri Linn (Bhumi Amla) Hibiscus rosa sinensis Linn	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae Fabaceae Phyllanthaceae	RB L WP L Tu WP B L Fr Sd WP	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage Astringent, Haemostatic Ulcers, diarrhoea, Tuberculosis Liver disorders, Ulcers
46. 47. 48. 49.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb) Benth (Manila tamarind/Jalebi tree) Phyllanthus niruri Linn (Bhumi Amla) Hibiscus rosa sinensis Linn (China rose)	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae Fabaceae	RB L WP L Tu WP B L Fr Sd	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage Astringent, Haemostatic Ulcers, diarrhoea, Tuberculosis
46. 47. 48. 49.	Eclipta prostrata Linn (Bhringraj) Pedalium Murex Linn (Gokhru) Cyprus rotundus Linn (Nagarmotha/Nutgrass) Convolculus pluricavlis Choisy (Shankhpushpi) Pithecellobium dulce (Roxb) Benth (Manila tamarind/Jalebi tree) Phyllanthus niruri Linn (Bhumi Amla) Hibiscus rosa sinensis Linn	Asteraceae Pedaliaceae Cyperaceae Convolvulaceae Fabaceae Phyllanthaceae	RB L WP L Tu WP B L Fr Sd WP	Skin disease Skin disease Blood pressure, Cholesterol Hair growth Gonorrhea, Dysurea, Cough, Cold Fever, Digestive disorders, Dysmenorrhea, Muscle relaxation, Nausea Antibacterial Improves memory, Epilepsy, Headache, Vomiting Diabetes, Analgesic Astringent, Antipyretic, Prevent miscarriage Astringent, Haemostatic Ulcers, diarrhoea, Tuberculosis Liver disorders, Ulcers

Conclusion: Phototherapy is an art practiced by our elderly people, who are familiar with the sign and symptoms of various common disease and ill conditions and cure or allay symptomatically these illness with the locally available plant drugs. From the collected data a list of 52 plants distributed into 38 families with their uses, part used, is prepared in alphabetical order. It was observed during the survey that these healers now represent a disappearing oral tradition which is not passed on to the next generation, obviously because the younger generation usually consider the belief in plant remedies a sort of superstition and less effective as compared to modern medicine. It is essential that this valuable knowledge regarding medicinal uses of plants be recorded before the time tested uses of herbal drugs are lost forever. The rapid degradation of forest has resulted in the depletion of resources. So conservation of these plants should be viewed seriously and urgent need to embark on large scale cultivation of these plants through high socioeconomic value and creation of herbal garden in Pali. The government should take sincere action to protect the forest and its wealth and need for developing a code of practices for growing, harvesting, collecting, handling, packaging, storing these medicinal plants because many of them are at the verge of threat due to over-exploitation.

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