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Ethno-Botanical Importance of Some Tree Species in Jammu District, J&K

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Abstract: The concept of biodiversity is as old as origin of human beings on earth, but now biodiversity is under threat. Sacred groves are rich sources of biodiversity conserved by local people in the name of religious beliefs. In the present paper, a survey was carried out in sacred groves of Jammu district to enumerate the tree diversity and importance of trees in the area. In the 60 sacred groves studied a total of 87 tree species belonging to 44 families were observed. Out of these 87 tree species found in the study area 74 were medicinal, 12 of religious importance and 30 were identified as aesthetically and economically. The study emphasises on conservation, awareness generation and management of local knowledge and resources.

Keywords: Biodiversity, Conservation, Management

1. Introduction

Trees play an important role in folklore, mythology in many religions and also in maintaining environmental balance, which can be directly demonstrated through recognition of sacred sites by society from ancient times. Sacred groves are the pools of the native species, so considered as 'islands of biodiversity'. With the destruction of forests around them they have become the last refuge of many plant and animal species (Chandran *et al.*, 1998). So this study is an attempt to find out the importance of tree diversity in Jammu region.

2. Literary Survey

Biodiversity and sacred groves are interlinked and had a strong relationship with mankind since time immemorial. Brandis (1897) reported numerous sacred groves from India and also revealed that these areas have never been touched by human beings except for religious purposes. Many studies further highlighted that sacred groves are rich in plant diversity and the species growing in these groves are of great economic importance and served as repositories of genotypes (Gadgil and Vartak, 1975).

3. Previous Work

Ethnobotany of sacred groves of Bankura district in West Bengal was studied by Basu (2009) to record medicinal plants and floristic diversity. Vinothkumar *et al.* (2011) carried out a study on biodiversity of three sacred groves in Pudukkottai district and enumerated 106 species out of which 52 were used for medicinal, edible, construction and cultural purposes.

4. Study Area

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Keeping in view the importance of tree diversity as source of food, fodder, medicine, *etc.* a study was carried out in Jammu district, which is also informally known as *Duggar desh*. Jammu region is almost plain, sloping towards the south. In recent years, this region has faced unprecedented growth of population and large scale development.

5. Methodology

The study envisages the estimation of tree diversity of the region, for this sacred groves were taken as sampling units. Information about sacred groves was gathered from local people and various religious authorities. A total of 60 sacred groves of Jammu city and its surrounding areas were studied. A brief tree inventory was prepared and identification was confirmed by Herbaria in Botany Department, University of Jammu. Whenever any sacred grove was visited the people were interviewed to know the uses and importance of trees present there.

6. Observations

Sacred groves in the study area are located at various sites like rural and semi-urban (30), urban (29) and in wildlife sanctuary (1). The results show that great variety of trees species exist in the study area. In the 60 sacred sites studied, a total of 87 species belonging to 70 genera and 44 families were observed. All the total 87 tree species were found to have economic value, but they are primarily used as medicine, timber, food, fodder, etc. (Table 6.1). About 74 tree species were found to have medicinal value and 12 species were identified to have religious value in rituals and ceremonies like Aegle marmelos, Azadirachta indica, Ficus benghalensis, Ficus religiosa, Mangifera indica, Musa paradisiaca, etc (Anthwal et al., 2006, Jasrai et al., 2003). Around 30 tree species were identified to have aesthetic and economic value such as fruit trees like Annona squamosa, Carica papaya, Zizyphus mauritiana, etc. timber trees like Dalbergia sisoo, Acacia catechu etc. dye and ornamental trees like Amaranthus caudatus, Ficus virens, Bauhinia vahlii etc. Trees like Ficus benghalensis, Ficus religiosa, Mangifera indica, Musa paradisiaca, Phyllanthus officinalis, Syzygium cumini, Tectona grandis, Zizyphus mauritiana, etc. found in the sacred groves of study area having multiple uses (Hughes and Chandran, 1997).

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Figure: Phyllanthus officinalis (Amla)



Figure: Musa paradisiaca (Kela)



Figure: Elaeocarpus ganitrus (Rudraksh)

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Figure: Ziziphus mauritiana (Bheri)

Table-6.1. Uses of trees found in sacred groves of the study area

S.	Botanical Names	Local names	Parts Used	
No		Locai names	Parts Usea	Purpose/Uses
		- · ·	=	5
	Aegle marmelos (L.) Corr.		Fruit pulp	Diarrhoea and Dysentry.
	Alistonia scholaris (L.) R.Br.	· · · · · · · · · · · · · · · · · · ·	Bark	Malaria, ornamental
	Adina cordifolia		Bark	Antiseptic
	Albizia lebbeck L.)Benth		Leaves	Surma
	Azadirachta indica		Leaves, stem	Skin boils, ring worms
	Araucaria cookii	Arucaria	Seeds	Ornamental
	Artocarpus lakoocha Roxb.	Tao	Wood, fruit	Medicine
8	Amaranthus caudatus Linn.	Chaleri	Leaves, flowers	Vegetable and dyes
9	Acacia nilotica	Kikar	Whole plant	Fodder, medicine
10	Acacia modesta Wall	Fulai	1	Fuel, Medicine
11	Acacia catechu (L.) Willd., Oliv	Khair	1	Food, fodder, medicine, dying
12	Acacia torta	Raal	-	Medicine, ornamental
13	Acer caesium	Madirae	Bark	Muscular swellings, boils
14	Annona squamosa L.	Sitaphal	-	Fruit
15	Anthocephalus cadamba Roxb.	Kadamb	-	Fodder, medicinal
16	Artabotrys odoratissimus	Kandar	Flowers, essential oils	Vomiting, biliousness, heart diseases
17	Berberis aristata	Kimbal	Whole plant	Urinary problems, dying clothes, tanning leather
18	Bauhinia variegata Linn.	Kartaid	Bark	Tonic and anthelimintic, leprosy
19	Bauhinia vahlii	Balungad	-	Ornamental
20	Butea monosperma (lam.) Taub.	Palash	Leaves and seed	Rhematic pain
21	Bauhinia purpurea	Kreal	Bark, Flower, Plant	Astringent, Antidiarrhoeal,
22	Bombax ceiba	Simbal	Young roots, Fruits, Flowers,	Kidney problems, Anti-inflammatory, Skin
23	Citrus limon	Nimbu	Fruit, Leaves and Stem	Influenza, Biliousness, Antibacterial
24	Citrus medica	Gargal	Fruit, Root, Flowers	Refrigerant, Anthelmintic, Astringent
25	Cordia dichotoma	Lasoora	Fruit, Bark, Leaves	Ringworm, Cough and Cold
26	Crataeva nurvala	Barna	Root, Bark	Urinary disorders
27	Cassia fistula	Amaltas	Flowers, pods, Seed powder	Amoebiasis
28	Cassia gluaca	Acacia gluaca	-	Medicinal
	Carica papaya L.	Papita	Ripe Fruit, Juice of Seeds	Bleeding piles, Enlarged liver and spleen
	Casuarina equestifolia	Saru	Whole plant	Wind barrier, Antispasmodic
	Callistemon	Bottle brush	-	Natural herbicide
	citrinus(Curtis.)Skeels			
	Dalbergia sisoo Roxb.	Tali	Leaves, Wood	Skin diseases, dysentry, as fuelwood.
	Dillenia indica	Kanel	Seeds and leaves	To treat ulcers, antiseptic
	Diospysos cordifolia Roxb.	Razain	-	Medicinal
	Eucalyptus globules Labille		Wood and leaves	Timber, Eucalyptus oil
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36	Eriobotrya japonica Lindl.	Lokat	Leaves, Fruit, Flower	Diabetes, Skin diseases
	Elaeocarpus ganitrus Roxb.	Rudraksh	Fruit, Stem	Headache, Asthma
	Ficus racemosa Linn.	Rumbel	Bark, Fruits, Roots	Antiseptic, Skin Disorder, Urinary Disorders
39	Ficus elastica	Rubber	-	Industrial use
	Ficus benghalensis L.	Barh	Bark, Seeds, Buds, Leaves	Diabetes, Dysentry, Ulcers
	Ficus religiosa /linn.	Borh	Fruits, leaves, barks	Antiseptic, Ulcers
	Ficus palmata Forssk.	Fakoda	-	Medicinal, Ornamental
	Ficus virens L.	Pakh	-	Ornamental
44	Flacourtia indica	Kakoh	Fruits, leaves, roots, wood	For jam and jellies, Against snakebite and as
	(Burm.f.) Merr.			firewood
45	Grevillea robusta	Silver oak	Acorns	Astringent, Indigestion
	Grewia optiva Drumn. exBurret	Taman	Fruits	Commercial value, stomach and skin
	Grewia tillifolia	Baat Taman	-	Medicinal
	Kegilia pinnata		Bark and Fruit	Ornamental, Antirehumatic
	Litchi chinensis Sonn.	Lychee	Fruit and Leaf	Refrigent, Used in bites of animals
50	` '	Kambel	Bark	Used in gout
	Merill.			
	Mimosops elengi L.	Mulsari	Fruit, Flower, Bark and Seed	Astringent, Chronic Dysentry,
	Morus alba Linn.	Tut	Fruit, Leaves and Bark	Cooling, Sore throat, Anti-inflammatory
	Mangifera indica L.	Aam	Whole plant	Antiscorbutic, Antibacterial, Burns, Antifungal,
	Melia azedarach L.	Drenk	Fruits I coves and Poots	In malaria, leprosy and skin disease.
	Musa paradisiaca L. Murraya koenigi (L.)	Kela Kurry patta	Fruits, Leaves and Roots Leaves	Diarrhoea, Intestinal Antihelminthic Antiprotozoal, Digestion
20	Sprengel	ixuiiy patta	LCAVES	Antiprotozoai, Digestion
	,			
57	Mallotus philippensis	Kambal	Fruit	Antihelminthic, Antibacterial, Red dye
	(Lam.) Mull. Arg			
58	Michelia champaca L.	Chamba	Flowers, Oil, Fruits, Roots,	Stimulant, Gout, Healing Cracks
50	1.C T	g :	Seeds, Bark	T. 1
59	Moringa oleifera Lam.	Soanjna	-	Food
60	Magnolia grandiflora L.		-	Ornamental
61	Psidium guaiava L.	Amrud	Unripe fruits, Leaves, Flowers	Antidiarrhoel, Diabetes, Cough, cold.
61	Psidium guajava L.	Amrud	Unripe fruits, Leaves, Flowers	Antidiarrhoel, Diabetes, Cough, cold, Antihelmintic
				Antihelmintic
	Pterospermum acerifolium	Kanak	Unripe fruits, Leaves, Flowers Flower, Bark	
62	Pterospermum acerifolium (L.) Willd	Kanak champa	Flower, Bark	Antihelmintic Anti-inflammatory
62	Pterospermum acerifolium	Kanak		Antihelmintic
62 63	Pterospermum acerifolium (L.) Willd Pinus roxburghii	Kanak champa Chir	Flower, Bark Needle oil, Oil, Resin	Antihelmintic Anti-inflammatory Antiseptic, Cough, Cold remedies
62 63	Pterospermum acerifolium (L.) Willd	Kanak champa	Flower, Bark	Antihelmintic Anti-inflammatory
62 63 64	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis	Kanak champa Chir	Flower, Bark Needle oil, Oil, Resin	Antihelmintic Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent
62 63 64	Pterospermum acerifolium (L.) Willd Pinus roxburghii	Kanak champa Chir Chinar	Flower, Bark Needle oil, Oil, Resin Bark, Leaf	Antihelmintic Anti-inflammatory Antiseptic, Cough, Cold remedies
62 63 64 65	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea	Kanak champa Chir Chinar	Flower, Bark Needle oil, Oil, Resin Bark, Leaf	Antihelmintic Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent
62 63 64 65 66	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica	Kanak champa Chir Chinar Baans	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf	Antihelmintic Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble
62 63 64 65 66	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere	Kanak champa Chir Chinar Baans	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem	Antihelmintic Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry,
62 63 64 65 66	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis	Kanak champa Chir Chinar Baans Amli Amla	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant	Antihelmintic Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble
62 63 64 65 66 67	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia	Kanak champa Chir Chinar Baans Amli Amla Ashoka	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity
62 63 64 65 66 67 68 69	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold
62 63 64 65 66 67 68 69 70	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough
62 63 64 65 66 67 68 69 70 71	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves -	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal
62 63 64 65 66 67 68 69 70 71 72	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L.	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental
62 63 64 65 66 67 68 69 70 71 72	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.)	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves -	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal
62 63 64 65 66 67 68 69 70 71 72 73	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves -	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food
62 63 64 65 66 67 68 69 70 71 72 73	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L.	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves -	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal
62 63 64 65 66 67 68 69 70 71 72 73 74 75	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Frout, Medicinal Ornamental plant
62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema
62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Frout, Medicinal Ornamental plant
62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis Syzygium cumini (L.) Skeels	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand Jamun	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema Antibacterial Antidiarrhoeal,
62 63 64 65 66 67 70 71 72 73 74 75 76 77	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis Syzygium cumini (L.) Skeels Toona ciliata M.Roem	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds Fruit, Bark, Seed, Leaves	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema Antibacterial Antidiarrhoeal,
62 63 64 65 66 67 70 71 72 73 74 75 76 77	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis Syzygium cumini (L.) Skeels Toona ciliata M.Roem Thevetia peruviana	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand Jamun	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds Fruit, Bark, Seed, Leaves - Bark, Leaves Root	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema Antibacterial Antidiarrhoeal, Timber Root- Plaster is applied to tumors
62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79 80	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis Syzygium cumini (L.) Skeels Toona ciliata M.Roem Thevetia peruviana Tamarindus indica L.	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand Jamun Tuno	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds Fruit, Bark, Seed, Leaves	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema Antibacterial Antidiarrhoeal, Timber Root- Plaster is applied to tumors As blood purifier and snakebite
62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79 80 81	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis Syzygium cumini (L.) Skeels Toona ciliata M.Roem Thevetia peruviana	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand Jamun Tuno - Imli	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds Fruit, Bark, Seed, Leaves - Bark, Leaves Root Bark, Fruits and Seeds	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema Antibacterial Antidiarrhoeal, Timber Root- Plaster is applied to tumors
62 63 64 65 66 67 70 71 72 73 74 75 76 77 78 79 80 81	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis Syzygium cumini (L.) Skeels Toona ciliata M.Roem Thevetia peruviana Tamarindus indica L. Terminalia arjuna	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand Jamun Tuno - Imli Arjuna	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds Fruit, Bark, Seed, Leaves - Bark, Leaves Root Bark, Fruits and Seeds Bark and Fruit	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema Antibacterial Antidiarrhoeal, Timber Root- Plaster is applied to tumors As blood purifier and snakebite Cardiotonic, Cirrhosis of liver, Skin Diseases Urinary problems, Anti-inflammatory, Timber
62 63 64 65 66 67 71 72 73 74 75 76 77 78 79 80 81 82	Pterospermum acerifolium (L.) Willd Pinus roxburghii Platanus orientalis Phyllostachys aurea Riviere Phyllanthus emblica Phyllanthus officinalis Polyalthia longifolia Putranjiva roxburghii Prunus persica Pogamia pinnata Pyrus L. Prunus persica (L.) Stokes Punica granatum L. Roystonia regia Ricinus cummunis Syzygium cumini (L.) Skeels Toona ciliata M.Roem Thevetia peruviana Tamarindus indica L. Terminalia arjuna	Kanak champa Chir Chinar Baans Amli Amla Ashoka Patanjan Ardo Sukhchan Nashpati Ardo Dadoni Palm Arand Jamun Tuno - Imli Arjuna	Flower, Bark Needle oil, Oil, Resin Bark, Leaf Stem Fruits, Seeds, Bark and Leaf Whole Plant Stem bark and Leaves Fruits Fruit, Bark and Leaves Roots, Bark, Seeds Fruit, Bark, Seed, Leaves - Bark, Leaves Root Bark, Fruits and Seeds Bark and Fruit Flower, Seed, Wood, Bark	Anti-inflammatory Anti-inflammatory Antiseptic, Cough, Cold remedies Antidiarrhoel, Astringent Making of Baskets, Mats Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Antianaemic, Antidiabetic, Jaundice, Dysentry, Eye Trouble Fungitoxic activity Cough, Cold Tranquillizer, Whooping cough Medicinal Food, Ornamental Food Fruit, Medicinal Ornamental plant Dermatosis and Eczema Antibacterial Antidiarrhoeal, Timber Root- Plaster is applied to tumors As blood purifier and snakebite Cardiotonic, Cirrhosis of liver, Skin Diseases

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				eruptions
84	Terminalia chebula	Reed, Harad	Fruit and Bark	Antibilious, Constipation, Dysentry,
85	Vitex negundo L.	Bna	-	Analgesic
86	Wrightia tomentosa	Dudha	Bark and Seeds	Antidysenteric, Piles and Skin Disorders
	Ziziphus mauritiana Lam.	Bheri	Fruits, Seeds, Bark, Leaf	Gout, boils, Rheumatic inflammations

7. Conclusion

All the tree species in the study were found to be valuable economically, as medicine, food, timber *etc*. There is a significant role played by sacred groves in maintaining biodiversity in the present times. Thus it is recommended that there is need to refresh our traditional knowledge and generate awareness among the masses especially young population. Conservation of small sacred groves should be promoted and fragmentation of large sacred groves should be discouraged to save our indigenous wealth of biodiversity.

8. Future Scope

Sacred groves are important indigenous source of plant wealth for present and future generation. But recent trends in our society, now stress on the need of conservation of such areas as beliefs behind protection of such areas are fading. So, government organisations, NGOs, local people and scientific community should come forward to generate awareness and conserve these areas of rich biodiversity.

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