FLORAL DIVERSITY OF SAMBHAV, NAYAGARH, ODISHA

SAMBHAV

AMBIKA PRASAD RESEARCH FOUNDATION

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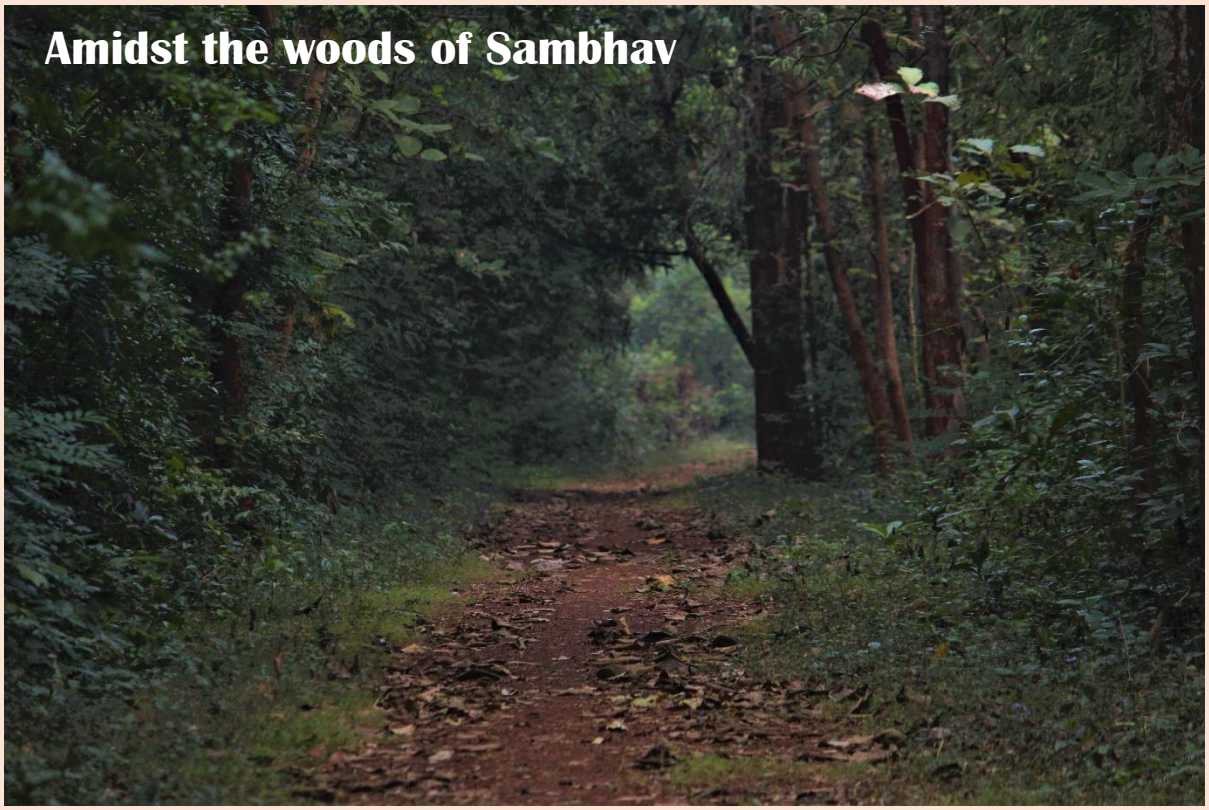
INTRODUCTION

With a deep concern about rapid disappearance of natural forest that have been an issue all over the world, Sambhav was established to cope up to some extend with the environmental issues. The idea came up in the year 1988 in a meeting to re-green the barren abandoned 90 acres land. This proposal was initially rejected by other members as it was proposed by someone residing in city. This challenge was accepted by Sabarmatee and her father Prof. Radhamohan, the founders of Sambhav. It is located at a village Rohibanka in Odgaon Block of Nayagarh district in Odisha.

With a consistent and unwavering efforts from the last quarter century, community participation and rural women with no or very little education are taking charge of changing their own destiny to convert the hopelessly degraded land to sustainable, ecologically friendly productive land. This approach initiated with the introduction of several indigenous plant species without the use of agro-chemicals which after some point of time became a habitat for several faunal species including mammals, birds, insects, etc.

It retained the natural establishment of prey-predator mechanism and adopted natural ways of soil and water conservation.



Amidst the woods of Sambhav

After a long continuous efforts and time, Sambhav is showing positive results with experiments based on climate related, nutrition, food, medicine and many others. With its positive experiments, many organizations, officials, universities and institutions across India and abroad are showing interest in various ways. This small group is contributing the society in a great way by volunteers and local people without any funding since the last three decades.

Recently, a survey was carried out by a team of Ambika Prasad Research Foundation (APRF), Odisha to enumerate the floral species. The survey took place during rainy season and winter season. Findings of the survey showed a total of about 500 floral species. Among them, some medicinally important plant species was observed such as *Abrus precatorius, Achyranthus aspera, Aegle marmelos, Aerva lanata, Aegeratum conyzoides, Andographis paniculata, Anacardium occidentale, Aergereia nervosa, Asparagus racemosa, Azadirachta indica, Bauhinia variegata, Biophytum sensitivum, Breynia retusa, Cassia fistula, Celastrus paniculata, Cissampelos pariera, Citus lemon, Coccinia grandis, Combretum roxburghii, Dioscorea bulbifera, Gymnema sylvestre, Murraya koenigii, Oroxylum indicum, Oxalis corniculata*, etc.

Important food plants such as *Aegle marmelos, Amorphophallus paeoniifolius, Annona sqamosa, Artocarpus heterophyllus, Cinnamomum verum, Cocos*

nucifera, Colocasia esculanta, Cucumis melo, Curcuma aromatica, Curcuma longa, Dillenia indica, Dioscorea alata, Diospyros melanoxylon, Glycosmis pentaphylla, Ipomoea aquatica, Leucas aspera, Madhuca longifolia, Manilkara zapota, Mimusops elengi, Momordica charantia, Morus alba, Oriza sativa, Oxalis corniculate, Phyllanthus emblica, Piper longum, Psidium gujava, Semecarpus anacardium, etc. were also observed.

In addition to medicinal and food plants, economically important plants were also observed such as *Acacia auriculiformis, Albizia lebbeck, Albizia procera, Allamanda cathartica, Alstonia scholaris, Andographis paniculata, Anogeissus acuminata, Anogeissus latifolia, Artocarpus heterophyllus, Artocarpus lacucha, Averrhoa carambola, Azadirachta indica, Barringtonia acutangula, Bixa Orellana, Bombax ceiba, Buchanania lanzan, Butea monosperma, Calophyllum inophyllum, Careya arborea, Cassia fistula, Cassia siamea, Celastrus paniculata, Cissampelos pareira, Curculigo orchioides, Dalbergia paniculata, Diospyros melanoxylon, Ficus benghalensis, Gloriosa superba*, etc.

***Striga densiflora*, a parasitic plant at Sambhav**

FLORAL DIVERSITY AT SAMBHAV

The list of enumerated plants with its food, medicinal, economic or other values are represented in Table 1.

Table 1: Plant diversity at SAMBHAV in Nayagarh District, Odisha State

Plant Name	Family	Common Name(s)	Purposes			
			Medicinal	Food	Economic	Others
Abrus precatorius	Fabaceae	Kaincho	✔			
Abutilon indicum	Malvaceae	Pedipedica	✔			
Acacia auriculiformis	Mimosaceae	Jaranasaka			✔	
Acacia catechu	Mimosaceae	Khaira	✔			
Acacia farnesiana	Fabaceae	Gandhagohira				✔
Acacia leucopholea	Mimosaceae	Gohira				✔
Acacia pennata	Mimosaceae	Dantari				✔
Acalypha indica	Euphorbiaceae	Muktajuri	✔			
Acampe praemorsa	Orchidaceae	Gandhanakuli				✔
Achyranthes aspera	Amaranthaceae	Apamaranga	✔			
Adansonia digitata	Malvaceae	Baobab				✔
Adiantum philippense	Adiantaceae	Kali jhat	✔			
Aegle marmelos	Rutaceae	Belo	✔	✔	✔	✔
Aerides odorata	Orchidaceae	Fox brush orchid				✔
Aerva lanata	Amaranthaceae	Paunsia	✔			
Aerva sanguinolenta	Amaranthaceae	Bada chauladhua				✔
Aeschynomene spp.	Fabaceae	NIL	✔			
Aganosma caryophyllata	Apocynaceae	Gandhamalati	✔			
Agave americana	Agavaceae	Muraba				✔
Ageratum conyzoides	Asteraceae	Pokasunga	✔			
Albizia lebbeck	Leguminosae	Siriso			✔	
Albizia odoratissima	Leguminosae	Kala siriso			✔	✔
Albizia procera	Leguminosae	Dhala siriso			✔	✔
Allamanda cathartica	Apocynaceae	Kanaka champa			✔	✔
Allium sativum	Amaryllidaceae	Rasuna	✔	✔	✔	
Allmania nodiflora	Amaranthaceae	Mundia sag	✔			
Allophylus serratus	Sapindaceae	Khandakoli	✔	✔		
Alocasia macrorrhizos	Araceae	Alooka	✔	✔	✔	
Alstonia scholaris	Apocynaceae	Chatiana	✔		✔	
Alstonia venenata	Apocynaceae	Baghamari				✔
Alternanthera sessilis	Amaranthaceae	Madaranga	✔			
Alysicarpus vaginalis	Fabaceae	Trushnakranti	✔			
Amaranthus caudatus	Amaranthaceae	Khada saga	✔	✔	✔	
Amaranthus spinosus	Amaranthaceae	Kantakhada	✔	✔	✔	
Amaranthus viridis	Amaranthaceae	Leutia	✔	✔	✔	
Amorphophalus paeoniifolius	Araceae	Oolua	✔	✔	✔	

Ampelocissus latifolia	Vitaceae	Kanjinoi	✔			✔
Anacardium occidentale	Anacardiaceae	Lanka badam	✔	✔	✔	✔
Ananas comosus	Bromeliaceae	Sapuri	✔	✔	✔	
Andrographis paniculata	Acanthaceae	Bhuinnimba	✔	✔	✔	
Angelonia angustifolia	Plantaginaceae	Summer Snapdragons				✔
Annona reticulata	Annonaceae	Ramphola		✔		
Annona squamosa	Annonaceae	Sugar apple	✔	✔	✔	
Annona squmosa	Annonaceae	Aato,sitaphalo		✔		
Anogeissus acuminata	Combretaceae	Fasi			✔	✔
Anogeissus latifolia	Combretaceae	Dhaura			✔	✔
Antidesma acidum	Euphorbiaceae	Jamurola		✔		
Antidesma ghaesembilla	Euphorbiaceae	Nuniari		✔		
Argyreia nervosa	Convolvulaceae	Brudhataraka	✔			
Aristolochia indica	Aristolochiaceae	Pano-oiri	✔			
Artabotrys hexapetalus	Annonaceae	Chinichampa				✔
Artocarpus heterophyllus	Moraceae	Panaso	✔	✔	✔	✔
Artocarpus lacucha	Moraceae	Jeuotho	✔	✔	✔	✔
Asparagus racemosus	Asparagaceae	Satabari	✔		✔	
Asystasia gangetica	Acanthaceae	Creeping Foxglove				✔
Atalantia monophylla	Rutaceae	Narguni	✔			
Averrhoa carambola	Averrhoaceae	Karamanga	✔	✔	✔	
Azadirachta indica	Meliaceae	Nimba	✔	✔	✔	✔
Bambusa arundinacea	Poaceae	Kanta baunsa			✔	✔
Barleria cristata	Acanthaceae	Dashakarada	✔			
Barleria elegans	Acanthaceae	White bushveld barleria	✔			
Barleria prionitis	Acanthaceae	Dashakerenta	✔			
Barleria strigosa	Acanthaceae	Banamali	✔			
Barringtonia acutangula	Lecythidaceae	Hinjal			✔	✔
Basella alba	Basellaceae	Poi	✔	✔	✔	
Bauhinia acuminata	Leguminosae	Sweto kanchana	✔	✔	✔	✔
Bauhinia vahlii	Fabaceae	Siali lata	✔	✔	✔	✔
Bauhinia variegata	Leguminosae	Kanchana	✔	✔	✔	✔
Biophytum sensitivum	Oxalidaceae	Lokachana	✔			
Bixa orellana	Bixaceae	Sinduri	✔	✔	✔	✔
Blepharis boerhavifolia	Acanthaceae	Madras blephari	✔			
Blumea aurita	Asteraceae	Pokasunga	✔			
Blumea lacera	Asteraceae	Kukursunga	✔			
Boerhavia diffusa	Nyctaginaceae	Kharkharia	✔	✔		
Bombax ceiba	Malvaceae	Simuli	✔		✔	
Borassus flabellifer	Arecaceae	Tala	✔	✔	✔	✔
Borassus flabellifer	Arecaceae	Tala	✔	✔	✔	✔
Bothriochloa bladhii	Poaceae	Gandha bena				
Bougainvillea spectabilis	Nyctaginaceae	Kagajaphula	✔		✔	✔
Breynia retusa	Euphorbiaceae	Jajanga	✔			
Breynia vitis-idaea	Euphorbiaceae	Jhanjika	✔			

Bridelia monoica	Phyllanthaceae	Chota kasi	✔			
Bridelia retusa	Phyllanthaceae	Kasi	✔	✔		
Bryophyllum pinnatum	Crassulaceae	Amarapoi	✔			
Buchanania lanzan	Anacardiaceae	Chara	✔	✔	✔	✔
Butea monosperma	Leguminosae	Palasa	✔		✔	✔
Butea superba	Leguminosae	Latapalasa	✔		✔	✔
Caesalpinia bonduc	Caesalpiniaceae	Grey Nicker	✔			
Caesalpinia pulcherrima	Leguminosae	Ghodibano	✔			
Calamus latifolia	Arecaceae	Gouribeto	✔	✔	✔	✔
Calliandra haematocephala	Fabaceae	Powder Puff				✔
Calliandra haematocephala var alba	Fabaceae	White powderpuff	✔			
Callistemon rigidus	Myrtaceae	Bottlebrush			✔	✔
Calophyllum inophyllum	Calophyllaceae	Polanga	✔		✔	✔
Calotropis gigantea	Asclepiadaceae	Ranga arakha	✔			
Calotropis procera	Asclepiadaceae	Dhala arakha	✔			
Canavalia gladiata	Fabaceae	Sword bean	✔	✔		
Canna indica	Cannaceae	Krushna Kedar	✔			✔
Canscora alata	Gentianaceae	Buruburi				✔
Canthium dicoccum	Rubiaceae	Kuruma	✔			✔
Capsicum frutescens	Solanaceae	Lanka	✔	✔	✔	✔
Cardiospermum halicacabum	Sapindaceae	Photaka	✔			
Careya arborea	Lecythidaceae	Kumbhi	✔	✔	✔	✔
Carissa carandas	Apocynaceae	Karandakoli	✔	✔		
Carissa spinarum	Apocynaceae	Khirikoli	✔	✔		✔
Caryoto urens	Arecaceae	Salapa	✔	✔		✔
Cascabela thevetia	Apocynaceae	Kanyari	✔			✔
Casearia tomentosa	Salicaceae	Khakada				✔
Cassia fistula	Caesalpiniaceae	Sunari	✔		✔	✔
Cassia occidentalis	Caesalpiniaceae	Chotachakunda	✔			
Cassia roxburghii	Fabaceae	Red cassia				✔
Cassia siamea	Caesalpiniaceae	Chakunda	✔		✔	✔
Cassia tora	Caesalpiniaceae	Dhala chakunda				✔
Cassine glauca	Celastraceae	Mokha				✔
Cassytha filiformis	Lauraceae	Nipatia	✔			
Casuarina equisetifolia	Casuarinaceae	Jhaun				✔
Cayratia pedata	Vitaceae	Pita potola	✔			✔
Cayratia trifolia	Vitaceae	Amala lata	✔			✔
Celastrus paniculata	Celastraceae	Pengu	✔		✔	
Centrosema pubescens	Fabaceae	Butterfly pea				✔
Ceratopteris thalictroides	Pteridaceae	Water sprite	✔			
Cerbera odollam	Apocynaceae	Pani amba	✔			✔
Ceropegia candelabrum	Apocynaceae	Pharbaghaga	✔			
Cestrum nocturnum	Solanaceae	Night blooming jasmine	✔			
Chloris barbata	Poaceae	NIL				✔

Chloroxylon swietenia	Rutaceae	Bheru	✔			✔
Chromolaena odorata	Asteraceae	Pokasunga	✔			
Chrysopogon aciculatus	Poaceae	Guguchia				✔
Chrysopogon zizanioides	Poaceae	Bena			✔	✔
Cinnamomum camphora	Lauraceae	Karpura	✔		✔	
Cinnamomum tamala	Lauraceae	Tejapatra	✔	✔	✔	✔
Cinnamomum verum	Lauraceae	Dalchini	✔	✔	✔	
Cipadessa baccifera	Meliaceae	Nalbali	✔			
Cissampelos pareira	Menispermaceae	Akanabindhi	✔	✔	✔	✔
Cissus vitiginea	Vitaceae	Bana angur	✔			✔
Citrus aurantium	Rutaceae	Sweet Orange	✔	✔	✔	✔
Citrus limon	Rutaceae	Lembu	✔	✔	✔	✔
Citrus medica	Rutaceae	Lembu	✔	✔	✔	✔
Citrus reticulata	Rutaceae	Kamala lembu	✔	✔	✔	✔
Cleistanthus collinus	Phyllanthaceae	Karada	✔		✔	✔
Cleome gyanandra	Capparaceae	Anasorisa	✔			
Cleome rutidosperma	Capparaceae	Nilabhela	✔			
Cleome viscosa	Capparaceae	Banosorisha	✔			
Clerodendrum indicum	Lamiaceae	Bhanramala	✔			
Clerodendrum infortunatum	Lamiaceae	Hill Glory Bower	✔			
Clitoria ternatea	Fabaceae	Aparajita	✔	✔	✔	✔
Coccinia grandis	Cucurbitaceae	Kunduri	✔	✔	✔	✔
Cocculus hirsutus	Menispermaceae	Musakani	✔			
Cochlospermum religiosum	Cochlospermaceae	Kapasia	✔	✔	✔	✔
Cocos nucifera	Arecaceae	Nadia	✔	✔	✔	✔
Coffee arabica	Rubiaceae	Coffee	✔			
Coleus amboinicus	Lamiaceae	Indian mint	✔			
Colocasia esculenta	Araceae	Saru	✔	✔	✔	✔
Combretum roxburghii	Combretaceae	Atundi	✔			
Commelina benghalensis	Commelinaceae	Kansiri	✔	✔	✔	✔
Commelina benghalensis	Commelinaceae	Wandering jew	✔	✔	✔	
Commelina longifolia	Commelinaceae	Panikanchira	✔			
Corchorus aestuans	Tiliaceae	Bananalita	✔			
Costus speciosus	Costaceae	Gaigendalia	✔	✔	✔	✔
Couroupita guianensis	Lecythidaceae	Nagachampa	✔			
Crateva magna	Capparaceae	Varuno	✔			✔
Crinum asiaticum	Amaryllidaceae	Hatikanda	✔			
Crotalaria pallida	Fabaceae	Junjhunka	✔			
Crotolaria retusa	Fabaceae	Jhumki	✔			
Croton bonplandianus	Euphorbiaceae	Bana miricha	✔			
Cryptolepis buchananii	Apocynaceae	Gopakahnu	✔			
Cucumis melo	Cucurbitaceae	Kharbhuja	✔	✔		
Cucurbita pepo	Cucurbitaceae	Kakharu		✔	✔	
Curculigo orchioides	Hypoxidaceae	Talamuli	✔		✔	✔
Curcuma aromatica	Zingiberaceae	Palua	✔	✔	✔	✔

Curcuma caesia	Zingiberaceae	Kala haladi	✔			
Curcuma longa	Zingiberaceae	Haladi	✔	✔	✔	✔
Cuscuta reflexa	Cuscutaceae	Nirmuli	✔			
Cycas nayagarhensis	Cycadaceae	Arguna	✔			
Cynotis axillaris	Commelinaceae	Godhuli	✔			
Cyperus cyperoides	Cyperaceae					✔
Cyperus imbricatus	Cyperaceae	Single flat sedge				✔
Cyperus rotundus	Cyperaceae	Mutha	✔			✔
Cyrtococcum trigonum	Poaceae	Badali				✔
Dactyloctenium aegyptium	Poaceae	Kakhuriya				✔
Dalbergia paniculata	Leguminosae	Girishkala			✔	✔
Dalbergia sissoo	Leguminosae	Sissoo			✔	✔
Datura stramonium	Solanaceae	Dhala dudura	✔		✔	✔
Delonix regia	Fabaceae	Krushna chuda				✔
Dendrophthoe falcata	Loranthaceae	Madanga				✔
Desmodium gangeticum	Fabaceae	Salaparni	✔		✔	
Desmodium heterocarpon	Fabaceae	Salaparni	✔			
Desmodium pulchellum	Fabaceae	Birkapi	✔		✔	
Desmodium triflorum	Fabaceae	Kuradia				✔
Dillenia indica	Dilleniaceae	Ooa	✔	✔	✔	✔
Dillenia pentagyna	Dilleniaceae	Rai	✔	✔		
Dioscorea alata	Dioscoreaceae	Khamba alu	✔	✔	✔	✔
Dioscorea belophylla	Dioscoreaceae	Tara kanda	✔			
Dioscorea bulbifera	Dioscoreaceae	Pita alu	✔	✔		
Dioscorea dumetorum	Dioscoreaceae	NIL	✔			
Dioscorea glabra	Dioscoreaceae	Kanta alu	✔	✔		
Dioscorea hamiltonii	Dioscoreaceae	Suta alu	✔	✔		
Dioscorea hispida	Dioscoreaceae	Bainya alu	✔	✔		
Dioscorea oppositifolia	Dioscoreaceae	Pani alu	✔	✔		
Dioscorea pentaphylla	Dioscoreaceae	Koraba alu	✔	✔		
Dioscorea puber	Dioscoreaceae	Danga alu	✔	✔		
Diospyros malabarica	Ebenaceae	Mankeda kendu				✔
Diospyros melanoxylon	Ebenaceae	Kendu	✔	✔	✔	✔
Diospyros ovalifolia	Ebenaceae	Vedi kandru				✔
Diospyros sylvatica	Ebenaceae	Kalachua				✔
Diospyros vera	Ebenaceae	Rakta roda				✔
Dipteracanthus prostrates	Acanthaceae	Bell weed				✔
Dipteracanthus prostratus	Acanthaceae	Bell Weed	✔			
Dracaena angustifolia	Asparagaceae		✔			
Dracaena trifasciata	Asparagaceae	Snake plant	✔			
Duabanga grandiflora	Lythraceae	Duabanga	✔			✔
Duranta erecta	Verbenaceae	Sky flower			✔	✔
Ecbolium viride	Acanthaceae	Danti	✔		✔	
Echinochloa stagnina	Poaceae	Hippo grass	✔			
Eclipta prostata	Asteraceae	Bhrungaraj	✔			
Ehretia laevis	Boraginaceae	Masania				✔

Elaeocarpus ganitrus	Elaeocarpaceae	Rudraksha	✔		✔	✔
Elaeocarpus serratus	Elaeocarpaceae	Wild olive tree				✔
Elephantopus scaber	Asteraceae	Mayurachulia	✔			
Eleusine indica	Poaceae	Ana mandia				✔
Epipremnum aureum	Araceae	Golden pothos	✔			
Eranthemum nervosum	Acanthaceae	Blue sage	✔			
Eriobotrya japonica	Rosaceae	Loquat				✔
Eriocaulon quinquangulare	Eriocaulaceae	Phurki , Nakachana	✔			
Eupatorium purpureum	Asteraceae	sweetscented joe pye weed	✔			
Euphorbia hirta	Euphorbiaceae	Chitakutei	✔			
Euphorbia tirucalli	Euphorbiaceae	Danga siju				
Evolvulus alsinoides	Convolvulaceae	Bisiankaranti	✔			
Evolvulus nummularius	Convolvulaceae	Bichhamalia	✔			
Ficus benghalensis	Moraceae	Baragacha	✔		✔	✔
Ficus hispida	Moraceae	Panidimiri	✔		✔	✔
Ficus racemosa	Moraceae	Dimiri	✔		✔	✔
Flemingia chappar	Fabaceae	Shyamalata	✔			
Foeniculum vulgare	Apiaceae	Sweet fennel	✔			
Gardenia gummifera	Rubiaceae	Bhurudu	✔			✔
Gardenia latifolia	Rubiaceae	Damkurudu	✔			✔
Garuga pinnata	Burseraceae	Kekadogacha	✔	✔		
Gliricidia sepium	Fabaceae	Mexican lilac			✔	✔
Gloriosa superba	Liliaceae	Agnisikha	✔		✔	✔
Glycosmis pentaphylla	Rutaceae	Chauli	✔	✔		
Gmelina arborea	Lamiaceae	Gambhari			✔	
Gomphrena celosioides	Amaranthaceae	Hiragalo	✔			
Grevillea pteridifolia	Proteaceae	Silkey grevillea				✔
Grevillea robusta	Proteaceae	Silver Oak				✔
Grewia asiatica	Malvaceae	Pharosakoli	✔			
Grewia tiliifolia	Malvaceae	Dhamana	✔			
Guazuma ulmifolia	Malvaceae	Bhadraksha	✔			
Gustavia augusta	Lecythidaceae	Heaven lotus			✔	✔
Gymnema sylvestre	Apocynaceae	Gudmari	✔		✔	✔
Hackelochloa granularis	Poaceae	Pitscale grass				✔
Haldina cordifolia	Rubiaceae	Kuruma	✔			✔
Hedychium spicatum	Zingiberaceae	Spiked Zinger Lily	✔			
Heliconia rostrata	Heliconiaceae	Lobster Claw				✔
Helicteres isora	Malvaceae	Mudumudica	✔		✔	✔
Hemidesmus indicus	Apocynaceae	Anantamul	✔		✔	
Hibiscus radiatus	Malvaceae	Monarch Rosemallow	✔	✔	✔	
Hibiscus rosa sinensis	Malvaceae	Mandara	✔	✔	✔	
Hibiscus sabdariffa	Malvaceae	Khata saga	✔	✔	✔	
Holarrhena pubescens	Apocynaceae	Kurei	✔			✔
Holmskioldia sanguinea	Lamiaceae	Chinese hat				✔

Holoptelea integrifolia	Ulmaceae	Churla				✔
Hybanthus enneaspermus	Violaceae	Madanamastak	✔			✔
Hydrilla verticillata	Hydrocharitaceae	Chingudia dala				✔
Hydrolea zeylanica	Hydroleaceae	Kadamalli	✔			
Hymenodictyon orixense	Rubiaceae	Kansa				✔
Hyptis sauveolens	Lamiaceae	Ganga tulasi	✔			
Ichnocarpus frutescens	Apocynaceae	Sugandhimala	✔		✔	
Indigofera linifolia	Fabaceae	Bhangra lota				✔
Indigofera linnaei	Fabaceae	NIL				✔
Ipomea pes-caprae	Convolvulaceae	Kansari nata	✔			
Ipomoea aquatica	Convolvulaceae	Kalama saga	✔	✔	✔	✔
Ipomoea batata	Convolvulaceae	Kandamula	✔	✔	✔	
Ipomoea muricata	Convolvulaceae	Lavender Moonflower	✔			
Ixora arborea	Rubiaceae	Torchwood tree				✔
Jacaranda mimosifolia	Bignoniaceae	Nupur				✔
Jasminum multiflorum	Oleaceae	Star jasmine	✔			
Jasminum sambac	Oleaceae	Malli	✔		✔	
Jatropha curcas	Euphorbiaceae	Baigaba	✔		✔	✔
Jatropha gossypifolia	Euphorbiaceae	Nail-baigaba	✔			✔
Justicia betonica	Acanthaceae	Matisaga	✔			
Justicia gendarussa	Acanthaceae	Kala-basanga	✔			
Justicia japonica	Acanthaceae		✔			
Knoxia sumatrensis	Rubiaceae	Sumatra knoxia	✔			✔
Kopsia fruticosa	Apocynaceae	Shrub Vinca	✔		✔	
Kyllinga brevifolia	Cyperaceae	Nutsedge				✔
Kyllinga nemoralis	Cyperaceae	Nirvishi	✔			
Lagerstroemia indica	Lythraceae	Chenaphula				✔
Lantana camara	Verbenaceae	Naguari	✔	✔	✔	✔
Leea indica	Vitaceae	Kalad chana	✔			
Leea microphylla	Vitaceae	Hatikana	✔			
Lepidagathis fasciculata	Acanthaceae	NIL				✔
Leportea interrupta	Urticaceae	Bichata		✔		
Leucas aspera	Lamiaceae	Gayasa	✔	✔	✔	
Leucus biflora	Lamiaceae	Gayasa	✔			
Limnophila indica	Plantaginaceae	Keralata, Ambakasia	✔			
Limonia acidissima	Rutaceae	Kaintho	✔	✔	✔	
Lindernia custacea	Linderniaceae	Khetakuara	✔	✔		
Lippia javanica	Verbenaceae	Naguari	✔			
Litchi chinensis	Sapindaceae	Lichukoli	✔	✔	✔	
Litsea glutinosa	Lauraceae	Ledhachhali	✔			✔
Ludwigia perennis	Onagraceae	Bila labanga	✔			
Lygodium flexuosum	Lygodiaceae	Indrajal	✔			✔
Madhuca longifolia	Sapotaceae	Mahula	✔	✔	✔	✔
Mallotus philippensis	Euphorbiaceae	Kapilogundi	✔		✔	✔
Mangifera indica	Anacardiaceae	Amba	✔	✔	✔	✔

Manilkara zapota	Sapotaceae	Sapeta	✔	✔	✔	✔
Markhamia lutea	Bignoniaceae	Yellow Bell Bean Tree				
Marsilea minuta	Marsileaceae	Sunusunia saga	✔	✔	✔	
Maytenus emarginatus	Celastraceae	Baincho	✔			
Melia azedarach	Meliaceae	Mahanimba	✔	✔	✔	✔
Melochia corchorifolia	Malvaceae	Telpuri	✔			
Merremia hederacea	Convolvulaceae	Ivy woodrose	✔			
Merremia tridentata	Convolvulaceae	NIL	✔			
Mesua ferrea	Clusiaceae	Nageswara	✔		✔	✔
Michelia champaca	Magnoliaceae	Champa	✔		✔	✔
Micrococca mercurialis	Euphorbiaceae	Mercury doughwood	✔			
Mikania micrantha	Asteraceae	Bitter vine				✔
Miliusa tomentosa	Annonaceae	Gandhasalia	✔			
Miliusa velutina	Annonaceae	Gandhapalaso	✔			
Mimosa pudica	Mimosaceae	Lajakuli lata	✔			
Mimusops elengi	Sapotaceae	Baula	✔	✔	✔	
Mirabilis jalapa	Nyctanthaceae	Rangani	✔			✔
Mitragyna parvifolia	Rubiaceae	Kelikadamba	✔			✔
Mollugo pentaphylla	Molluginaceae	Pita sago	✔			✔
Momordica charantia	Cucurbitaceae	Kalara	✔	✔	✔	✔
Moringa oleifera	Moringaceae	Sajana saga	✔	✔	✔	✔
Morus alba	Moraceae	Mulberry	✔	✔	✔	✔
Mucuna pruriens	Fabaceae	Baidanka	✔			
Muntingia calabura	Muntingiaceae	Singapore cherry	✔	✔		
Murdannia spirata	Commelinaceae		✔			✔
Murdannia spirata	Commelinaceae	Asiatic dew flower		✔		✔
Murraya koenigii	Rutaceae	Bhursunga	✔	✔	✔	✔
Murraya paniculata	Rutaceae	Kamini	✔	✔	✔	✔
Musa paradisiaca	Musaceae	Kadali	✔	✔	✔	
Myriophyllum aquaticum	Haloragaceae	Parrot’s feather	✔			
Neolamarckia cadamba	Rubiaceae	Kadamba	✔			
Nyctanthes arbor-tristis	Oleaceae	Gangasiuli	✔	✔	✔	✔
Nymphaea nouchali	Nymphaeaceae	Nilakain				✔
Ochna obusta	Ochnaceae	Radhachampa	✔			
Ocimum gratissimum	Lamiaceae	Ram tulasi	✔			
Ocimum sanctum	Lamiaceae	Tulasi	✔			
Oplismenus burmanni	Poaceae	Mohara	✔			
Oropetium thomaeum	Poaceae	NIL	✔			
Oroxylum indicum	Bignoniaceae	Fanfana	✔		✔	✔
Oryza sativa	Poaceae	Dhana	✔	✔	✔	✔
Ougeinia oojeinensis	Fabaceae	Bandano	✔			
Oxalis corniculata	Oxalidaceae	Chingudisaga	✔	✔		
Paederia foetida	Rubiaceae	Pasaruni	✔	✔	✔	
Pandanus fascicularis	Pandanaceae	Kia	✔			
Panicum brevifolium	Poaceae					✔

Panicum notatum	Poaceae	Narhali plant	✔			
Panicum repens	Poaceae	Torpedo grass	✔			
Parthenium hysterophorus	Asteraceae	Bano dhania				✔
Paspalidium flavidum	Poaceae	NIL	✔			
Passiflora edulis	Passifloraceae	Purplr passion fruit	✔			
Passiflora foetida	Passifloraceae	Bisiripi	✔	✔		
Pennisetum pedicellatum	Poaceae	Fountaingrass	✔			
Peperomia pellucida	Piperaceae	Ghusuri pana	✔			✔
Pergularia daemia	Asclepiadaceae	Uturudi	✔			✔
Persea americana	Lauraceae	Avacodo	✔			
Phoenix sylvestris	Arecaceae	Khajuri	✔	✔	✔	✔
Phyllanthus acidus	Phyllanthaceae	Narakoli	✔	✔	✔	
Phyllanthus emblica	Phyllanthaceae	Anola	✔	✔	✔	✔
Phyllanthus fraternus	Phyllanthaceae	Bhuin aonla	✔			
Phyllanthus nummulariifolius	Phyllanthaceae	Bhuin aonla	✔			
Phyllanthus urinaria	Phyllanthaceae	Bhuin amla	✔			
Phyllanthus virgatus	Phyllanthaceae	Bhuin anola	✔			
Pimenta dioca	Martyaceae	Allspice	✔	✔		
Piper longum	Piperaceae	Pipali	✔	✔	✔	✔
Piper nigrum	Piperaceae	Goloamaricha	✔	✔	✔	✔
Pistia stratiotes	Araceae	Borajhanji				✔
Plantago ovata	Plantaginaceae	Psyllium plant	✔			
Plumbago rosea	Plumbaginaceae	Lal chitraka, Agni	✔			
Plumbago zeylanica	Plumbaginaceae	Chitrak	✔			
Plumeria alba	Apocynaceae					✔
Plumeria rubra	Apocynaceae	Katha champa				✔
Polyalthia longifolia	Annonaceae	Debdaru			✔	✔
Polyalthia suberosa	Annonaceae	Karadia				✔
Polygala arvensis	Polygalaceae	Meradu	✔			
Polygonum barbatum	Polygonaceae		✔			
Polygonum chinensis	Polygonaceae	Chinese knotweed	✔			
Polygonum plebeium	Polygonaceae	Chanti saga	✔			
Pongamia pinnata	Leguminosae	Karanja	✔		✔	✔
Portulaca oleracea	Portulaceae	Badabalbalua	✔			
Portulaca quadrifida	Portulaceae	Balbaluka	✔			
Pseudarthria viscida	Fabaceae	Salaparni	✔			
Psidium guajava	Myrtaceae	Pijuli	✔	✔	✔	✔
Psophocarpus tetragonolobus	Fabaceae	Winged bean	✔			
Pteris vittata	Pteridaceae	Chinese ladder brake fern	✔			
Pterocarpum peltophorum	Fabaceae	Radhachuda	✔		✔	
Pterocarpus indicus	Leguminosae	Amboyna				✔
Pterocarpus marsupium	Leguminosae	Piasal	✔		✔	
Pterocarpus santalinus	Leguminosae	Rakta Chandan	✔		✔	✔

Pterospermum acerifolium	Malvaceae	Muchukunda	✔			
Pterospermum xylocarpum	Sterculiaceae	Giringa	✔		✔	✔
Punica granatum	Lythraceae	Dalimba	✔	✔	✔	
Pupalia lappacea	Amaranthaceae	Forest Burr	✔	✔		
Quisqualis indica	Combretaceae	Madhumalati	✔			
Randia dumetorum	Rubiaceae	Kaari	✔			✔
Raphanus raphanistrum	Brassicaceae	Mula	✔	✔	✔	
Rauvolfia serpentina	Apocynaceae	Patalagaruda	✔		✔	✔
Rauvolfia tetraphylla	Apocynaceae	Sana patalagaruda	✔		✔	✔
Ricinus communis	Euphorbiaceae	Jada	✔	✔	✔	✔
Saccharum officinarum	Poaceae	Akhu	✔	✔	✔	
Sacciolepis indica	Poaceae	Glenwood grass	✔			
Salacca zalacca	Arecaceae	Snake fruit	✔			
Sansevieria roxburghiana	Asparagaceae	Snakeplant	✔			✔
Santalum album	Santalaceae	Chandan	✔	✔	✔	✔
Sapindus trifoliatus	Sapindaceae	Ritha	✔			✔
Saraca asoca	Caesalpiniaceae	Ashoka	✔		✔	✔
Sauropus androgynus	Phyllanthaceae	Multi vitamine plant	✔			
Schleichera oleosa	Anacardiaceae	Kusuma	✔	✔	✔	✔
Schoenoplectus grossus	Cyperaceae	Wood club rush	✔			
Scindapus officinalis	Araceae	Gajapipali	✔			✔
Scoparia dulcis	Plantaginaceae	Chirarita	✔		✔	✔
Sebastiana chamaelea	Euphorbiaceae	Snakes tongue	✔			
Selaginella repanda	Selaginellaceae	NIL	✔			
Selenicereus undatus	Cactaceae	Dragon fruit	✔			
Semecarpus anacardium	Anacardiaceae	Bhalia	✔	✔	✔	✔
Senna alata	Fabaceae	Candle bush	✔			
Sericocalyx scaber	Acanthaceae	Khakusa	✔			
Sesbania bispinosa	Fabaceae	Tentua	✔			
Sesbania grandiflora	Fabaceae	Agasthi	✔	✔		
Setaria pumila	Poaceae	Sialalanji				✔
Setaria verticillata	Poaceae	Hooked bristlegrass	✔			
Shorea robusta	Dipterocarpaceae	Sal	✔		✔	✔
Sida acuta	Malvaceae	Bajramuli	✔			
Sida cordata	Malvaceae	Bisiripi	✔			
Sida cordifolia	Malvaceae	Bisvokopari	✔			
Simarouba glauca	Simaroubaceae	Paradise tree	✔			✔
Smilax zeylanica	Smilaceae	Muturi	✔	✔		✔
Solanum melongena	Solanaceae	Baigano	✔	✔	✔	✔
Solanum nigrum	Solanaceae	Nununnunia	✔	✔		✔
Solanum tuberosum	Solanaceae	Alu	✔	✔	✔	
Solanum virginianum	Solanaceae	Bheji-baigan	✔	✔		
Solanum xanthocarpum	Solanaceae	Kanta baigana	✔	✔	✔	
Solena amplexicaulis	Cucurbitaceae	Banokunduri	✔	✔		

Soymida febrifuga	Meliaceae	Suam, Rohni				✔
Spathodea campanulata	Bignoniaceae	Kanakaturi	✔			
Spermacoce articularis	Rubiaceae	Solaganthi	✔			
Spermacoce mauritiana	Rubiaceae	NIL	✔			
Spermacoce ocymoides	Rubiaceae	Sanagharapodia	✔			
Spilanthes paniculata	Asteraceae	Akarakara	✔		✔	
Spondias pinnata	Anacardiaceae	Ambada	✔	✔	✔	✔
Sporobolus diandrus	Poaceae	Kankra chara				✔
Stachytarpheta jamaicensis	Verbenaceae	Jalajali	✔			
Streblus asper	Moraceae	Sahada	✔	✔	✔	✔
Striga densiflora	Orobanchaceae	Witchweed	✔			✔
Strychnos nux-vomica	Loganiaceae	Kochila	✔			✔
Strychnos potatorum	Loganiaceae	Katakala	✔			✔
Swietenia mahagoni	Meliaceae	Mahagoni				✔
Symphorema involucratum	Verbenaceae	Bhingri	✔			
Synedrella nodiflora	Asteraceae	Cindrella weed	✔			
Syzygium aromaticum	Myrtaceae	Labanga	✔	✔	✔	✔
Syzygium cuminii	Myrtaceae	Jamun	✔	✔	✔	✔
Syzygium jambos	Myrtaceae	Malabar plum	✔	✔	✔	
Tagetes lacera	Asteraceae	Mexican marigold	✔			
Talinum fruticosum	Talinaceae	Ceylon spinach	✔			
Tamarindus indica	Fabaceae	Tentuli	✔	✔	✔	✔
Tectona grandis	Lamiaceae	Saguan	✔		✔	✔
Tephrosia purpurea	Fabaceae	Kolathia	`✔			✔
Terminalia alata	Combretaceae	Asana	✔	✔	✔	✔
Terminalia arjuna	Combretaceae	Arjuna	✔	✔	✔	✔
Terminalia bellirica	Combretaceae	Bahada	✔	✔	✔	✔
Terminalia chebula	Combretaceae	Harida	✔	✔	✔	✔
Thuja orientalis	Cupressaceae	Morpankhi	✔			
Thunbergia alata	Acanthaceae	Black-Eyed Susan vine	✔			✔
Tiliacora acuminata	Menispermaceae	Vallikanjiram	✔			
Tinospora cordifolia	Menispermaceae	Guluchi	✔	✔	✔	✔
Tinospora sinensis	Menispermaceae	Guluchi	✔			
Toddalia asiatica	Rutaceae	Orange climber	✔	✔		
Trachyspermum ammi	Apiaceae	Ajwain, juani	✔			
Tragia involucrata	Euphorbiaceae	Bichuati	✔			
Trapa natans	Lythraceae	Panisingada	✔	✔	✔	
Tribulus terrestris	Zygophyllaceae	Gokhura	✔			
Tridax procumbens	Asteraceae	Bisalyakarani	✔			
Triumfetta pentandra	Tiliaceae	Jatajatia	✔			
Triumfetta rhombiodea	Tiliaceae	Bajramuli	✔			
Tylophora asthamatica	Apocynaceae	Swasamari	✔		✔	
Typhonium trilobatum	Araceae	Olendi	✔			
Uraria picta	Fabaceae	Pushnaparni	✔			
Uraria picta	Fabaceae	Dabra	✔			

Ureno lobata	Malvaceae	Raktafeni	✔			
Urochloa panicoides	Poaceae	Liveseed grass	✔			
Vanda tessellata	Orchidaceae	Ilkum	✔			
Veronica cinerea	Plantaginaceae	Ashen speedwell	✔			
Vitex negundo	Lamiaceae	Nirgundi	✔			
Wattakaka volubilis	Asclepiadaceae	Mendha-munda-chali	✔			
Withania somnifera	Solanaceae	Ashwandha	✔		✔	
Woodfordia fruticosa	Lythraceae	Dhatiki	✔			
Xylia xylocarpa	Mimosaceae	Kangada	✔			
Zamia furfuracea	Zamiaceae	Cardboard palm				✔
Zephyranthes candida	Amaryllidaceae	Rain Lily	✔			
Zephyranthes citrina	Amaryllidaceae	Yellow rain Lily	✔			
Zephyranthes rosea	Amaryllidaceae	Rosy Rain Lily	✔			
Zingiber zerumbet	Zingiberaceae	Gada	✔		✔	✔
Ziziphus mauritiana	Rhamnaceae	Barakoli	✔	✔	✔	✔
Ziziphus oenoplia	Rhamnaceae	Jackal jujube	✔	✔	✔	
Ziziphus rugosa	Rhamnaceae	Chunakoli	✔	✔	✔	✔

Some of the pictorial representation of the floral species are shown in the following pages.

Spotted Dove perching on fruiting plants of Sambhav

Oplismenus burmannii

Amorphophallus paeoniifolius

Anogeissus latifolia

Gymnema sylvestre

Andographis paniculata

Knoxia sumatrenensis

Acacia auriculiformis

Calophyllum inophyllum

Spermacoce mauritiana

Thevetia peruviana

Argyreia nernosa

Evolvulus alsinoides

Phyllanthus emblica

Manilkara zapota

Ixora coccinea

Allamanda cathartica

Tridax procumbens

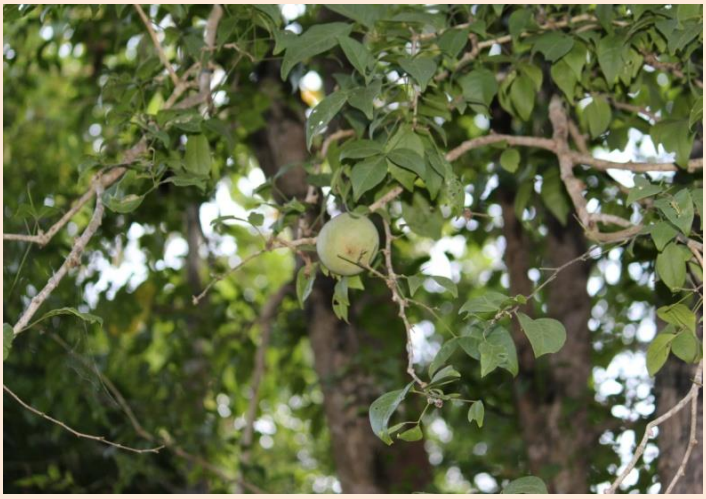
Mimosa pudica

Euphorbia hirta

Hibiscus micranthus

Scindapsus officinalis

Synedrella nodiflora



Aegle marmelos

Spermacoce ocymoides

Carissa carandas

Hybanthus enneaspermus

Allamanda blanchetii

Couroupita guianensis

Toddalia asiatica

Putranjiva roxburghii

Azolla pinnata

Scoparia dulcis

Dracaena trifasciata

Calotropis gigantea

Boerhavia diffusa

Allophylus serratus

Desmodium triflorum

Solanum torvum

Thunbergia grandiflora

Clitoria ternatea

Stachytarpheta indica

Lindernia ciliata

Cassia siamea

Tamarindus indica

Coccinia grandis

Caesalpinia pulcherrima

Rauvolfia tetraphylla

Euphorbia tithymaloides

Evolvulus nummularius

Catharanthus roseus

Quisqualis indica

Calliandra haematocephala

Dellinia indica

Sida acuta

Leea macrophylla

Duranta erecta

Gomphrena celosioides

Asparagus racemosus

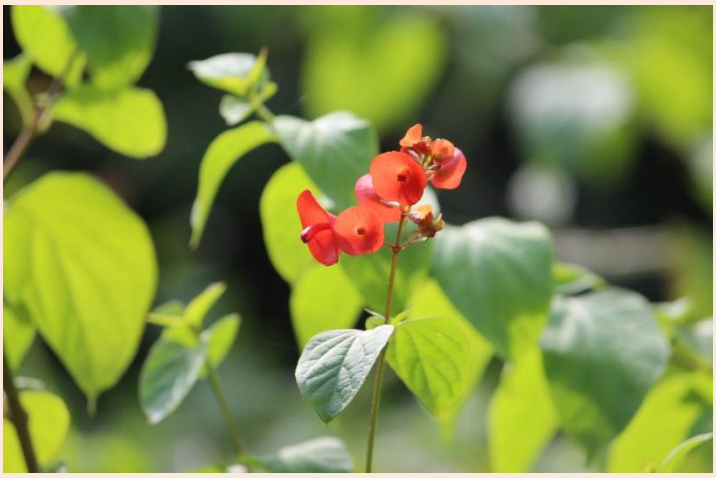
Glycosmis pentaphylla

Aegeratum conyzoides

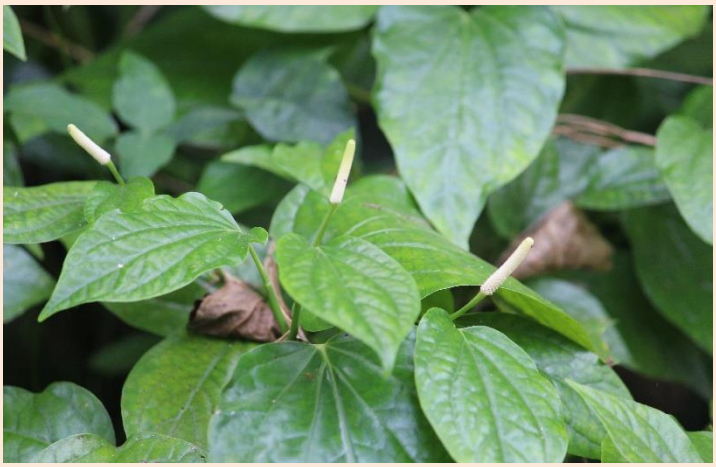
Strychnos nux-vomica

Pergularia daemia

Ipomoea aquatica



Holmskioldia sanguinea



Piper longum

Symphorema involucratum

Averrhoa carambola

Cerebra odolum

Chara zeylanica

Bridelia monoica

Hibiscus rosa-sinensis

Hemidesmus indicus

Nymphaea nouchali

Triumfetta pentandra

Termialia alata

Mucuna pruriens

Elephantopus scaber

Calliandra haematocephala alba

Agave americanum

Acmella radicans

Spilanthes paniculata

Cassia alata

Clerodendrum chinensis

Capsicum frutescens

Heliconia rostrata

Smithia conferta

Richardia scabra

Merremia tridentata

Nyctanthes arbor-tristis

Psophocarpus tetragonolobus

Angelonia angustifolia

Duabanga grandiflora

Clitoria ternatea

Ficus hispida

Artocarpus altilis

Crotalaria pallida

Ocimum gratissimum

Citrus aurantiifolia

Abutilon indicum

Annona reticulata

Plumbago rosea

Alpinia calcarata

Mesua ferrea

Musa paradisiaca

Cajanus cajan

Schoenoplectus grossus

Trachyspermum ammi

Vitex pinnata

Phyllanthus reticulatus

Gloriosa superba

Muntingia calabura

Pteris vittata

Cissampelos pareira

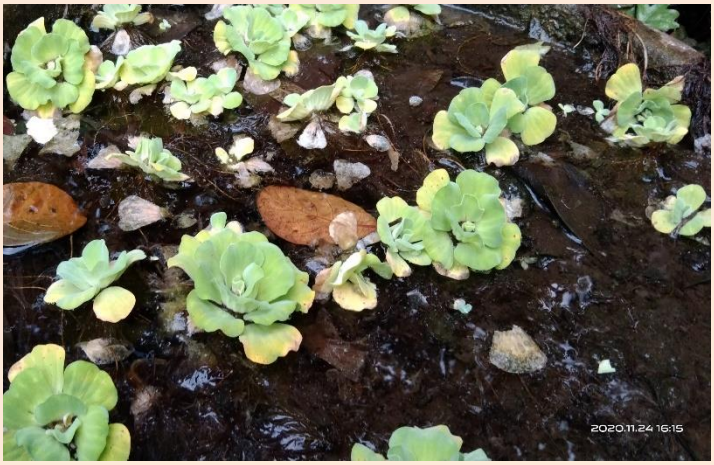
Piper betle

Datura metel

Hibiscus radiatus

Pterocarpus marsupium

Turnera ulmifolia



Pistia stratiotes

Cansora alata

Asystasia gangetica

Costus speciosus

Barleria strigosa

Barleria prionitis

Centrosema pubescens

Trapa natans

Nelumbo nucifera

Eranthemum nervosum

Bambusa arundinacea

Blepharis boerhavifolia

Callistemon lanceolatus

Casuarina equisetifolia

Borassus flabellifer

Barleria cristata

Eriocaulon quinquangulare

Ceratopteris thalictroides

Pennisetum pedicellatum

Limnophila indica

Pseudarthria viscida

Cassytha filiformis

Leucas biflora

Chromolaena odorata

Justicia betonica

Butea superba

Desmodium gangeticum

Alternanthera brasiliana

Hamelia patens

Alocasia macrorrhizos

Mirabilis jalapa

Crossandra infundibuliformis

Dracaena angustifolia

Bixa orellana

Plumbago zeylanica

Ipomoea batatas

Cestrum nocturnum

Basella alba

Aerva sanguinolenta

Aloe vera

Ipomoea muricata

Talinum fruticosum

Aerva lanata

Momordica charantia

Amaranthus viridis

Uraria picta

Centella asiatica

Gossypium hirsutum

Citrus maxima

Mentha arvensis

Impatiens balsamina

Ocimum bassilum

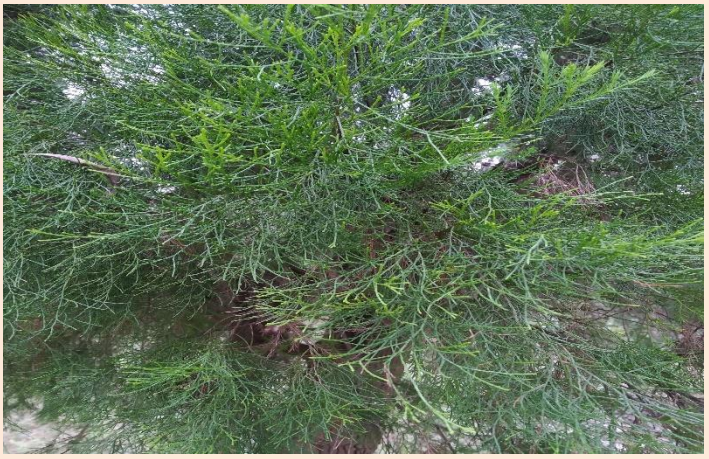
Colocasia esculenta

Canna indica

Lygodium flexuosum

Hedychium coronarium

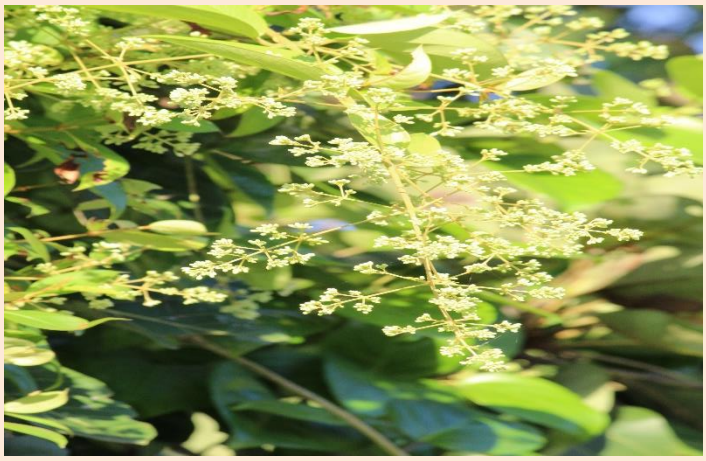
Eclipta prostrata



Tamarix dioica

Lippia javanica

Aeschynomene indica



Cinnamomum tamala

Tabernaemontana divaricata

Curcuma caesia

Bauhinia acuminata

Sebastiania chamaelea

Pseudarthria viscida

Dioscorea wallichii

Breynia retusa

Simarouba glauca

Curculigo orchioides

Ampelocissus latifolia

Grewia tiliifolia

Tectona grandis

Litsea glutinosa

Cipadessa baccifera

Aristolochia indica

Melochia corchorifolia

Leucaena leucocephala

Murraya koenigii

Lindernia crustacea

Gouania leptostachya

Corchorus aestuans

Rauvolfia tetraphylla

Oroxylum indicum

Cucurma longa

Leea trifoliata

Dioscorea dumetorum

Tephrosia purpurea

Striga densiflora

Cyperus rotundus

Spermacoce articularis

Terminalia bellerica

Helicteres isora

Holarrhena pubescens

Azadirachta indica

Lantana camara

Morinda pubescens

Cleistanthus collinus

Ipomoea alba

Passiflora foetida

Chrysopogon aciculatus

Zingiber zerumbet

Lagerstroemia speciosa

Hymenocallis littoralis

Tithonia rotundifolia

Ipomoea triloba

Clerodendrum indicum

Ricinus communis

Saraca asoca

Sesbania bispinosa

Setaria pumila

Phyllanthus simplex

Biophytum sensitivum

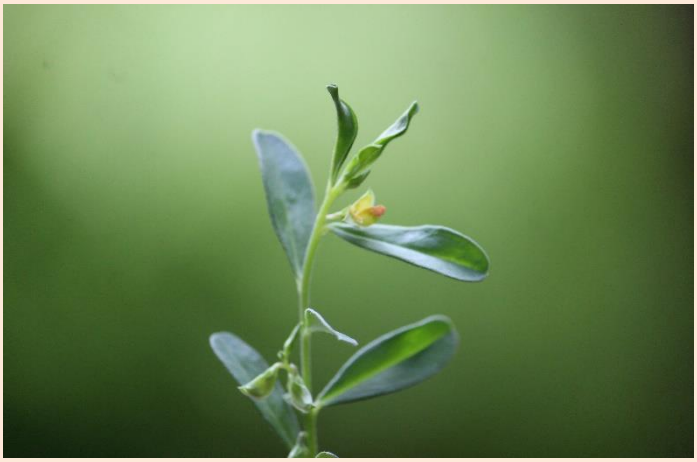
Dioscorea bulbifera

Ruellia tuberosa

Alstonia venenata

Ecbolium viride

Terminalia chebula



Polygala arvensis

Lindernia antipoda

Anogeissus latifolia

Campsis radicans

Mimusops elengi

Cocculus hirsutus

Dioscorea oppositifolia

Canvalia gladiata

Tagetes lancera

Hibiscus hybrids

Dactyloctenium aegyptium

Anogeissus latifolia

Sida cordifolia

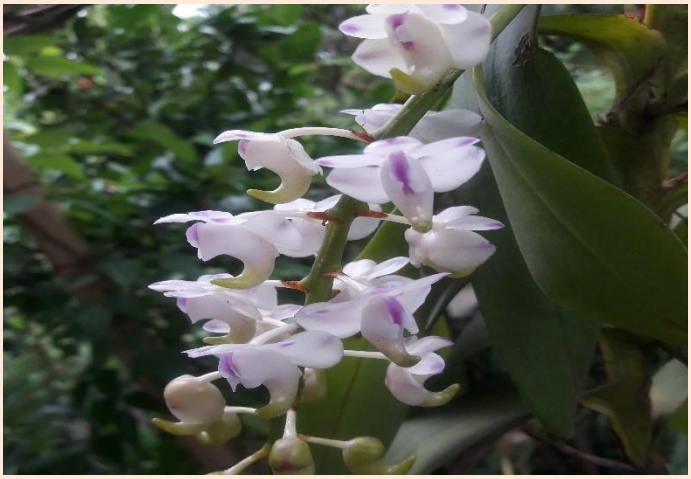
Lepidagathis fasciculata

Anacardium occidentale

Barleria elegans

Jasminum multiflorum

Acampe praemorsa



Aerides odorata

Ceropegia candelabrum

Chloroxylon swietenia

Cucurbita pepo

Desmodium heterocarpum

Flemingia chappar

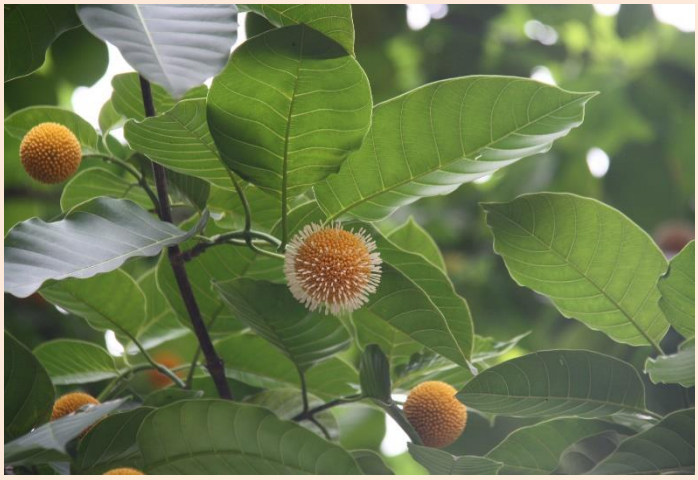
Hibiscus sabdariffa

Ludwigia perennis

Marsilea minuta

Hydrilla verticillata

Clerodendrum infortunatum



Neolamarckia cadamba

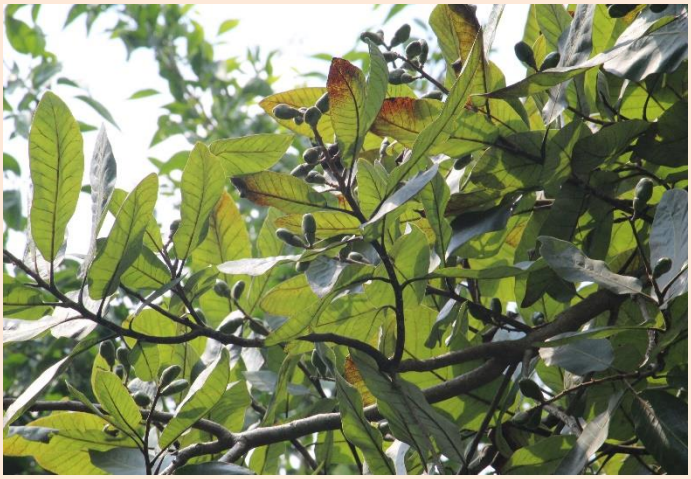
Zephyranthes citrina

Vernonia cinerea

Vanda tessellata

Typhonium trilobatum

Tragia involucrata



Semecarpus anacardium

Solena amplexicaulis

Streblus asper

Syzygium cumini

Mangifera indica

Mallotus philippensis

Gardenia latifolia

Cassia fistula

Careya arborea

Annona squamosa

Mollugo pentaphylla

Atalantia monophylla

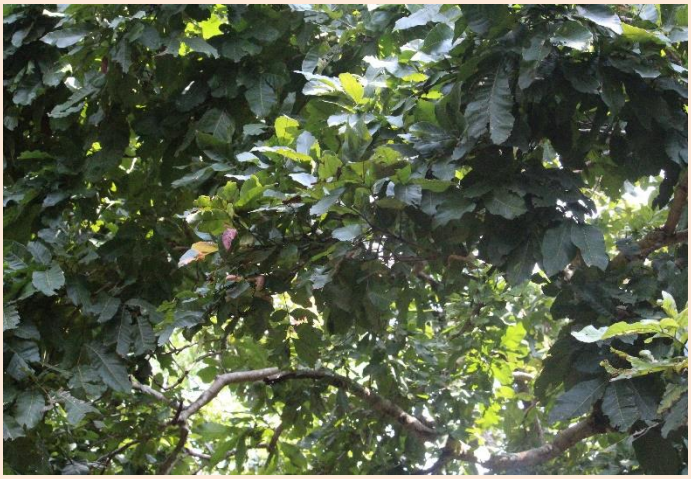
Bridelia retusa

Buchanania lanzan

Diospyros malabarica

Gardenia gummifera

Ichnocarpus frutescens



Schleichera oleosa

Shorea robusta

Solanum virginianum

Diospyros sylvatica

Ziziphus mauritiana

Xylia xylocarpa

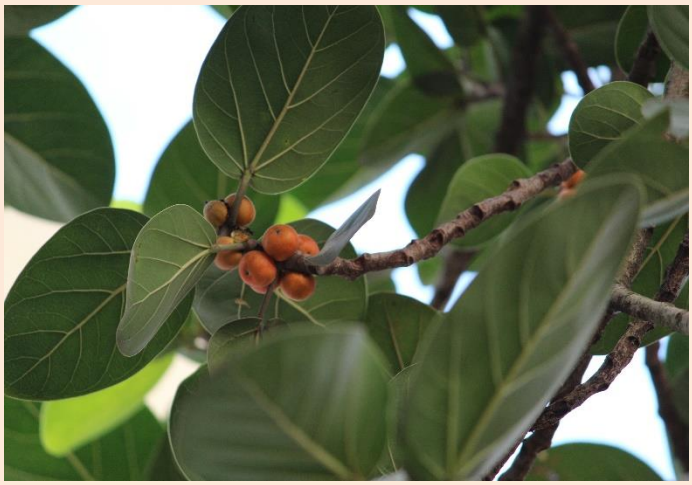
Syzygium jambos

Smilax zeylanica

Polyalthia suberosa

Phyllanthus fraternus

Leea indica



Ficus benghalensis

THREATENED PLANTS OF SAMBHAV

The survey revealed that there are various threatened plants that are grown and conserved within the Sambhav periphery. These plants include *Celastrus paniculatus*, *Saraca asoca*, *Pterocarpus marsupium*, *Gloriosa superba*, *Cycas nayagarhnensis*, *Oroxylum indicum*, *Pterocarpus santalinus*, *Carteva magna*, *Rauvolfia serpentina* and *Paederia foetida*.

***Gloriosa superba* L.**

***Oroxylum indicum* (L.) Kurtz.**

***Pterocarpus marsupium* Roxb.**

***Rauvolfia serpentina* (L.) Benth. ex Kurz**

Cycas nayagarhensis

***Celastrus paniculatus* Willd.**

SURVEY WORKS

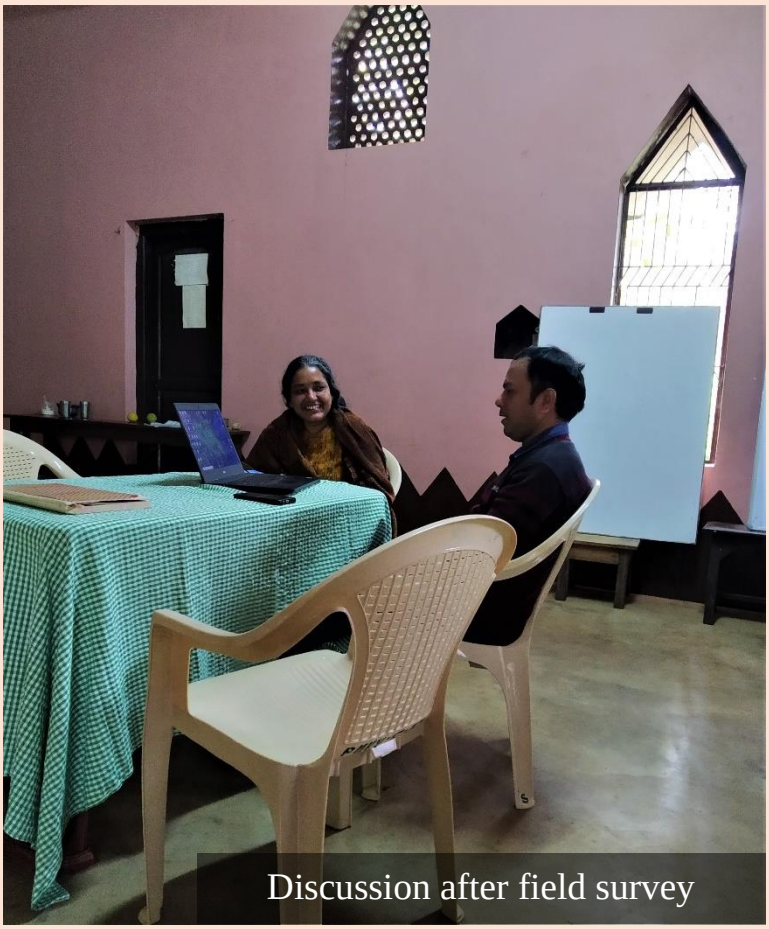
The survey carried out by the team of APRF went through rainy and winter seasons. The works include floral characterization, identification, study of its habitat and its associated flora. Although the flowering season for many plants is not the said seasons, the key identifying characters of the plant was used to identify the floral species. It was found that many of the species although is indigenous to the region are of economic value. Many of which are medicinal plants and others a natural way to suit the purpose of everyday life. The team had observed the use of many species that can be use as biofertilizer in a sustainable way with least time. A good number of *Dioscorea* spp. is found from the survey which is a good ground flora under the tree. It was observed there is a great diversity of fruiting plants including trees, shrubs, herbs as well as aquatic floras. It is well established knowing the fact that it was a barren land in the beginning. With the good diversity of fruiting plants, there is the increase in the faunal as well as the avifaunal wealth. The team have observed monkeys, Sambar deer and the indirect evidence of wild boar was observed. Apart from it a good population of butterflies and different species of birds are observed during the survey.

Characterization of floral parts

Identifying the key characters of *Bambusa arundinacea*

Identifying the key characters

Late work after field survey



Discussion after field survey

During the Survey

During the Survey

The Team

The Team

PECULIAR FINDINGS

The two seasons survey revealed that the place is rich with faunal and faunal diversity. The key feature of study area (SAMBHAV) are noted as:

- There are a good population of fruiting plants species which attract the frugivorous faunal species.
- It is a hub of diverged type medicinal plants including threatened species.
- The population of aquatic plants might be increased in the near future.
- The key species of dry deciduous forest are observed in study area which attract their associated faunal species.
- In the context of cultivation, they are conserving many types of indigenous rice varieties, lentils and other food species.
- Management system of SAMBHAV is peculiar in terms of sustainable utilization of available resources.

Hence, it could be a place for academic aspect for students, researchers, entrepreneurs and farmers.

Cultivation of *Gliricidia sepium* as biofertilizer


Alternative way of threshing paddy


Energy saving way of harvesting paddy

BIBLIOGRAPHY

Haines H.H. (1921-1925). The Botany of Bihar & Orrisa. Adlard & Son and West Newman Ltd., London.

Saxsena H.O. and Brahmam M. (1995). The Flora of Orrisa, Orrisa Forest Development Corporation Ltd., and Regional Research Laboratory, Bhubhaneswar.

Sanjeet Kumar, S. K. Biswal, Sweta Mishra, Nihar R Singh, Padmapriya Balakrishnan, Naresh K Kumawat and Nabin K Dhal. (2019). Medico-Biowealth of Odisha. APRF Publishers, Bhubaneswar. ISBN: 978-81-938861-4-4.

Sanjeet Kumar, Padma Mahanti, Padmapriya Balakrishnan and Nabin Kumar Dhal. (2018). Mahanadi: Hub of medicinal plants and associate taxa. APRF Publishers & NMPB. Pp-100.

Sanjeet Kumar and Prakash Kumar Tripathy. (2017). Wild cucurbits: source of traditional therapeutic systems & medicine. LAMBART Academic Publishing. Pp-102.

JK Patra, G Das, Sanjeet Kumar and HN Thatoi. (2018). Ethnopharmacology and Biodiversity of Medicinal Plants. APPLE ACADEMIC PRESS. (Accepted).

Sudam K Sahu, Sanjeet Kumar, Nihar Ranjan Singh. (2018). Parasitic Plants of Odisha. APRF Publishers. (ISBN: 978-81-935702-3-4)

Sanjeet Kumar. (2018). Bladderwort from the jewel land of India. APRF Publishers. (ISBN: 978-81-935702-4-1).

Latika Sahoo, Rajkumari Supriya Devi and Sanjeet Kumar. (2019). Sand dune flora of Odisha: source for drug formulations against antimicrobial resistance. Journal of Biodiversity and Conservation. 3(1): 217-228.

Sanjeet Kumar, Sweta Mishra, Samarendra N Mallick, Prabhat K Das and Y Chandrakala (2019). A check list of floral and faunal diversity of National institute of Technology, Rourkela, Odisha: implication on conservation and environmental studies. International Journal of Life Science. 7: 201-211.

Tanty K, Swain SR, Devi RS and Kumar S. (2019). New foods in the diet of orange breasted green pigeon (Treron bicinctus Jerdon, 1840).I3 Biodiversity. 1: 103.

SB Ummalyma, RS Devi and Sanjeet Kumar. (2018). Dioscorea hispida Dennst. (Dioscoreaceae): a new addition to the state flora of Manipur, India. Pleione. 12(1): 147-149.

S Devi, S Chakroborty, Sanjeet Kumar and Nabin K Dhal. (2018). Garcinia xanthochymus Hook. F. Ex T. Anderson: An ethnobotanically important tree species of the Similipal Biosphere Reserve, India. Ethnopharmacology and Biodiversity of Medicinal Plants. APPLE ACADEMIC PRESS.

Sanjeet Kumar, Gitishree Das, Han-Seung Shin, Pradeep Kumar and Jayanta Kumar Patra. (2018). Diversity of plant species in the Steel City of Odisha, India: ethnobotany and implications for conservation of urban bio resources. Brazilian Archives of Biology and Technology. DOI.org/10.190/1678-4324-2018160650.

Rout G. Kerry, L. Amitkumar Singh and Sanjeet Kumar. (2018). Role of Leptocoma zeylonica to maintain urban biodiversity: Glimpse on the pollination of Mucna pruriens. Journal of Biodiversity and Conservation. 1(2): 27-29.

Sanjeet Kumar, Padma Mahanti, Sakti K Rath and JK Patra. (2017). Qualitative phytochemical analysis and antibacterial activity of Dioscorea alata L.: a nutraceutical tuber crops of rural Odisha. J Alt Med Res. 3(1): 122-122.

Sanjeet Kumar, Padma Mahanti, G.Das and JK Patra. (2017). Country liquors of Similipal Biosphere Reserve, Odisha, India: A staple fermented food of the tribal communities. 9(3): 140-145.

Sanjeet Kumar, Padma Mahanti, Nihar Ranjan Singh, Sakti Kant Rath, Padan Kumar Jena and Jayanta Kumar Patra.(2017). Antioxidant activity, antibacterial potential and characterization of active fraction of Dioscorea pentaphylla L. tuber extract collected from Similipal Biosphere Reserve, Odisha, India. Brazilian Journal of Pharmaceutical Sciences. DOI: 10.1590/s2175-97902017000417006.

Sanjeet Kumar, Gitishree Das, Han-Seung Shin and Jayanta Kumar Patra. (2017). Dioscorea spp.(a wild edible tuber): A study on its ethnopharmacological potential and traditional use by the tribal people of Similipal Biosphere Reserve, India. Frontiers in Pharamcology. 8:52: doi:10.3389/fphar.2017.0052.

Sanjeet Kumar, Gitishree Das, Han-Seung Shin, Pradeep Kumar and Jayanta Kumar Patra (2017) Evaluation of medicinal values of Gymnopetalum chinense (Lour.) Merr., a lesser known cucurbit from Eastern Ghats of India. Brazilian Archives of Biology and Technology. 60: 1-10.

Sanjeet Kumar, Prasad Kumar Dash, Nihar Ranjan Singh, Padan Kumar Jena and Sakti Kant Rath. (2017). Dioscorea bulbifera: an important medicinal tuberous food of tribal Odisha. In Panda S. K. and Sahu H. K., Ethno-Pharmacology, Biodiversity and conservation. North Orissa University.

Sanjeet Kumar and Padan Kumar Jena. (2017). Tools from Biodiversity: Wild Nutraceutical Plants. Ed: James N Furze et al.: Identifying Frontier Research Integrating Mathematic Approaches to Diverse Systems / Sustainability. Springer, Swithzerland. DOI: 10.1007/978-3-319-43901-3-9.

Sanjeet Kumar. (2017). Yam (Dioscorea species): Future functional wild food of tribal Odisha, India. In Frontiers in bioactive compounds. Bentham Science Publishers Limited.

Sanjeet Kumar, G. Das and JK Patra. (2016). Passiflora foitida L.: an exotic ethnomedicinal plant of Odisha, India. Journal of Pharma & Pharmaceutical Sciences. 1(4): 7-9.

Sanjeet Kumar, G. Das and JK Patra. (2016). Thalkudi (Centella asiatica L.): A brain tonic among the rural and tribal communities of Odisha, India. Journal of Alternative Medical Research. 2(1): 112-14.

Padma Mahanti and Sanjeet Kumar. (2016). A checklist of avifaunal diversity of semi-urban areas of Cuttack, India: Implication on conservation and environmental studies. International Research Journal of Environmental Sciences. 5(7): 1-5.

S. Mohanty, P. K. Das and Sanjeet Kumar. (2016). Role of sacred groves in the conservation of traditional values of Odisha. Advances in Plants & Agricultural Research. 3(3): 00094. DOI: 10.15406/apar.2016.03.00094

Sanjeet Kumar. (2015). Life support plant species among aboriginals of Similipal Biosphere Reserve forest, Odisha: Diversity and Conservation. International Journal of Biological Sciences and Engineering. 6(2): 80-86.

Archita Behera, Sanjeet Kumar and Padan Kumar Jena. (2014). A review on Amorphophallus species: important medicinal wild food crops of Odisha. International Journal of Pharmacy & Life Sciences. 5(5): 3512-3516.

Sanjeet Kumar, Anup Kumar Parida and Padan Kumar Jena. (2013). Ethno-Medico-Biology of Ban Aalu (Dioscorea species): a neglected tuber crops of Odisha, India. International Journal of Pharmacy and Life Sciences. 4(12): 3143-3150.

Sanjeet Kumar, SP Behera and P K Jena. (2013). Validation of tribal claims on Dioscorea pentaphylla through phytochemical screening and evaluation of antibacterial activity. Plant Science Research. 35: 55-61.

Sanjeet Kumar, Prakash Kumar Tripathy and Padan Kumar Jena. (2012). Study of wild edible plants among tribal groups of Simlipal Biosphere Reserve Forest, Odisha, India; with special reference to Dioscorea species. International Journal of Biological Technology. 3(1): 11-19.

S Kumar, P. K. Tripathy and P. K. Jena. (2012). Ethnobotany and bioactive compounds in leaf of Bixa orellana L. and its toxicity to Artemia salina L. Plant Science Research. 34(1&2): 93-96.

Sanjeet Kumar and Dhanalaxmi Dash. (2012). Flora of Nandan Kanan Sanctuary: Medicinal plants with their role in health care. International Journal of Pharmacy & Life Sciences. 3(4): 1631-1642.

Monika Kumari and Sanjeet Kumar. (2012). Medicinal properties of Passiflora foitida L.: an exotic vine in a suburban area of Bhubaneswar, Odisha, India. Emerging Science. 4(5): 35-40.

Sanjeet Kumar and M Kumari. (2012). Ethnobotanical and Pharmacological study of Thalkudi (Centella asiatica L.): a brain tonic at our feet in Odisha. Emerging Science. 4(1): 21-23.

S Kumar, M K Satapathy and P K Jena. (2011). Quantitative estimation of total free amino acid among Amaranthus species: Implication for dietary protein. Plant Science Research. 33 (1&2): 127-129.

S. Kumar and M K Satapathy. (2011). Medicinal plants in an urban environment; herbaceous medicinal flora from the campus of Regional Institute of Education, Bhubaneswar, Odisha. International Journal of Pharmacy & Life Sciences. 2(11): 1206-1210.

Sanjeet Kumar and Padan Kumar Jena. (2015). Natural dye-yielding plants of tribal Odisha. Sabujima. 23: 23-25.

Sanjeet Kumar and Padan Kumar Jena. (2014). Edible medicinal non-timber forest products from floral wealth of tribal Odisha. Sabujima. 22:41-44.

Sanjeet Kumar and Padan Kumar Jena. (2013). Peperomia pellucid (Ghusripan): a shallow-rooted medicinal herb with diverse use. Sabujima. 21:55-57.

Sanjeet Kumar and M K Satapathy. (2011). Wetland rice cultivation: a major cause of global warming. 3(10): 15-18.

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