

## PHYTODIVERSITY OF ALIRAJPUR DISTRICT WITH SPECIAL REFERENCE TO CONSERVATION STRATEGIES

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**Abstract:** The current study was carried out in Alirajpur district, located in the western most part of Madhya Pradesh. Our study illustrates that 594 species of angiosperms under 452 genera belonging to 111 families. Out of these 110 species in 102 genera and 20 families belongs to Monocot and 484 species in 351 genera and 89 families belongs to Dicot. Herbs were dominating part in the flora of this province and it is followed by shrubs, grasses and trees (9.50%), whereas rest of 5 categories were in the range of 3.08-0.5%. However some areas and habitat types are still incompletely sampled and the survey is going on.

**Key words:** Alirajpur district, Phytodiversity, Madhya Pradesh, Conservation.

**Introduction:** The Flora of Madhya Pradesh province in India is very rich and diverse. Central, eastern and southern parts of the state are forested, whereas northern and western parts are deficient in forest [1]. Unpredictability in climatic and soil conditions brings about significant difference in the forest types and flora of the state. Bheel and Bhilala tribes live close to the forest and are largely dependent on the wild biological resources for their livelihood. They consume leaves, flower, corm, fruits, rhizome and bulbs, which are considered as highly nutritional with high medicinal value. In district about 28% of the area is covered with forest whose total area counts to 1900 sq. km. The main products of the forest are wood, tendu leaves, mahua and bamboo. Local tribes are mostly dependent on forest for their daily needs. Though some scattered information is available on floristic survey in reference to its relationship with tribes of Alirajpur district but it is not sufficient [2],[3], [4], [5],[6],[7] Despite the presence of enormous and varied flora of Western Madhya Pradesh, the floristic diversity of the Alirajpur district has not been explored sufficiently. Even if some dotted information is available [5], [6], [7], and [8]. it is not sufficient and systematic. Therefore, the present study has been carried out to collect the entire information on phyto diversity of Alirajpur

district.

**Study area:** Alirajpur District was carved out of Jhabua District on 17th May 2008. Alirajpur is predominantly a tribal district of Madhya Pradesh, located in the Western part of Madhya Pradesh. In the North-West it touches the state of Rajasthan while in the West it is surrounded by border of Gujarat. Maher and Narmada rivers make its Eastern and Southern border. Alirajpur district have divided into six blocks namely: Alirajpur, Sondwa, Katthiwada, Bhabra, Jobat and Uaigarh. Alirajpur district lying between 22°18'N latitude and 74°20'E longitude, covers an area of 3182 square kilometers (Fig.1). According to census 2011, Alirajpur population is 728,999. Alirajpur District average Rainfall is 850 mm. The temperature in this district ranges between 23°-30°C. Their major part is covered with dense forest in which various tribal like Bhil, Bhilala and Patliya are living in majority. Bhilala are the main inhabitants of different villages of the district. Mangoes, wheat, maize, pulses, spices, sorghum, garlic, chili, brinjal are major agriculture product. It is the biggest trading center of mangoes in Madhya Pradesh. The dryness of the climate and aridity different topography of the area provides a favorable ground to grow the plants.

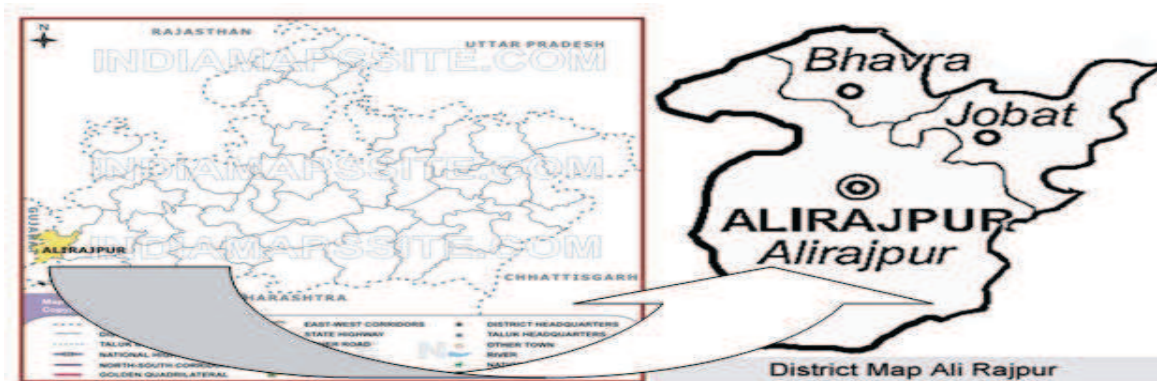


Fig.1. District Map of Alirajpur.

**Materials and Methods:** Periodic and exhaustive floristic surveys were undertaken during 2011-2013 in Alirajpur forest division in the each locality and in each season of the year. The plants were dried and pressed and herbarium was prepared according to the routine methods [9]. All the plant specimens were critically studied and identified with the help of various floras and published literature [10-11]. The identification was also made by referring some authentic publications and deposited in the herbarium of Department of Botany, Government PG College, and Alirajpur.

**Results and Discussion:** The present study shows that 594 species of angiosperms under 452 genera belonging to 111 families are found in Alirajpur district (Table 1). Out of these 100 species in 102 genera and 20 families belongs to Monocot and 484 species in 351 genera and 89 families belongs to Dicot. In life form category herbaceous species represents the highest numbers of species i.e. (376 species) followed trees (105 species), shrubs (67 species), climbers (32 species) and Lianas (7 species).

It is also clear from the observed data that the ratio of monocot to dicot is higher than with respect to genera to species (Table 2). Whereas the ratio of monocot to dicot with respect to families is higher. On the other hand, the ratio of genera to species with respect to Dicot is higher than that of monocot and total. The comparative status of families genera and species in India, Madhya Pradesh and Alirajpur district also have been presented. The results also reveals that Poaceae (71 species) is the dominant family in this district followed by Fabaceae (64 species), Asteraceae (38), Euphorbiaceae (31 species), Acanthaceae (23 species), Convolvulaceae, (22 species), Malvaceae (20 species), Caesalpiniaceae (18 species), Cucurbitaceae (17 species), Apocynaceae (16

species), Solanaceae and Verbenaceae (14 species each). It is significant that the ten dominant families of the district as given in (Fig.9) comprise 321 species 46.38 % of the total species included in the present work while remaining 105 families with a total of 371 species constitute 53.61 %.

Results also indicate that *Euphorbia* and *Ipomoea* (11 species each) are the most dominant genus in the district followed by *Ficus* (7 species). In addition, some of the genera like *Aegle*, *Anthocephalus*, *Blainvillea*, *Chrysanthemum*, *Cissampelos*, *Costus*, *Diplocyclos*, *Wattakaka*, *Holarrhena*, *Hydrolea*, *Lagascea*, *Phyla*, *Tridax*, *Waltheria* and *Woodfordia* are represented in India by single species (including cultivated) also occur in the region. It was also observed that a good number of species are facing threat due to a number of manmade and natural factors.

**Conclusions:** Phytodiversity of Alirajpur district comprises a large diverse amount of plant species. This paper reports the floral biodiversity of Alirajpur district which may act as benchmark for the detailed study. Though present study attempted to trace the flora of the whole area, yet we feel that it was an incomplete survey. Due to some natural and manmade factors several species are under pressure for their existence. Proper conservation and management plans are needed to save the natural resources especially medicinal and declining plant species of the district. It is assumed that there is plenty opportunity that many plant species was left unrecorded hence need long-term comprehensive study to document flora and vegetation of the area in question. However, the present work will serve to students and researcher for the identification of plants of given area.

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Table 1: List of plant species found in Jhabua district of Madhya Pradesh, India		
Family	Local Name	Life form
<b>DICOTYLEDON</b>		
<b>MAGNOLIACEAE</b>		
• <i>Michelia champaca</i> L.	Champaka	Tree
• <i>Michelia alba</i>	Safed Champa	Tree
<b>DILENACEAE</b>		
• <i>Dillenia indica</i> L.	Chalta	Tree
• <i>Dillenia suffruticosa</i>		Shrub
<b>ANNONACEAE</b>		
• <i>Annona reticulata</i> L.	Ranphal	Tree
• <i>Annona squamosa</i> L.	Sitaphal	Shrub
• <i>Miliusa tomentosa</i> (Roxb.) Sinclair	Umbia	Tree
• <i>Polyalthia longifolia</i> (Sonner.) Thw.	Ashok	Tree
<b>MENISPERMACEAE</b>		
• <i>Cissampelos pareira</i> L. var. <i>hirsuta</i> (Buch.-Ham. ex DC.) Forman.	Bhanjvel	Climber
• <i>Cocculus hirsutus</i> (L.) Diels	Veshang	Climber
• <i>Cocculus pendulus</i> (Forst.) Diels	Jaljamni	Climber
• <i>Stephania glabra</i> (Roxb.) Miers		Climber
• <i>Tinospora cordifolia</i> (Willd.) Miers ex Hook. f. and Thoms	Giloy	Climber
<b>PAPAVERACEAE</b>		
• <i>Argemone mexicana</i> L.	Satyanashi	Herb
• <i>Fumaria indica</i> (Hassk.) Pugsley .	Pitpapda	Herb
• <i>Papaver rhoeas</i> L.		Herb
<b>CAPPARACEAE</b>		
• <i>Capparis decidua</i> (Forsk.) Edgew.	Tethi	Shrub
• <i>Capparis sepiaria</i> L.	Kurrel	Shrub
<b>BRASSICACEAE</b>		
• <i>Brassica campestris</i> L.	Rai/Sarson	Herb
• <i>Brassica nigra</i> L.	Kali Rai	Herb
• <i>Brassica oleracea</i> L. var. <i>capitata</i> L.	Bandh gobi	Herb
• <i>Brassica oleracea</i> L. var. <i>botrytis</i> L.	Phool Gobhi	Herb
• <i>Brassica rapa</i> L.	Shaljam	Herb
• <i>Raphanus sativus</i> L.	Muli	Herb
<b>CLEOMACEAE</b>		
• <i>Cleome gynandra</i> L.	Hulhul	Herb
• <i>Cleome scaposa</i> DC.		Herb
• <i>Cleome viscosa</i> L.	Kuslya	Herb
• <i>Crateva religiosa</i> Forst. f.		Tree
<b>VIOLACEAE</b>		
• <i>Hybanthus enneaspermus</i> (L.) f. v. Muell.	Ratnpurus	Herb
<b>FLACOURTIACEAE</b>		
• <i>Casearia elliptica</i> Willd.	Kirchi	Tree
• <i>Flacourtia indica</i> (Burm. f.) Merr.	Bilanga	Shrub
<b>PITTIOSPORACEAE</b>		
• <i>Pittosporum wightii</i> A.K. Mukherjee.	Yekadi	Tree
<b>POLYGALACEAE</b>		
• <i>Polygala chinensis</i> L.	Kanphua	Herb
<b>CARYOPHYLLACEAE</b>		

• <i>Polycarpaea corymbosa</i> (L.) Lamk.	Chiriya	Herb
<b>PORTULACACEAE</b>		
• <i>Portulaca oleracea</i> L.	Golbgaji	Herb
• <i>Portulaca pilosa</i> L. ssp. <i>grandiflora</i> (Hook.) Geesink .	Noniya	Herb
<b>MALVACEAE</b>		
• <i>Abelmoschus esculentus</i> (Linn.) Moench..	Bhindi	Herb
• <i>Abelmoschus ficulneus</i> (L.) W. and A. ex.	Ran bhindi	Shrub
• <i>Abelmoschus manihot</i> (L.) Medic. ssp. <i>tetraphyllus</i> (Roxb. ex Hornem.) Borss.	Jangali bhindi	Shrub
• <i>Abelmoschus moschatus</i> Medic.	Mushk dana	Herb
• <i>Abutilon indicum</i> (L.) Sweet .	Kanghi	Herb
• <i>Abutilon pannosum</i> (Forst. f.) Schlect.	Kasili	Shrub
• <i>Alcea rosea</i>		Shrub
• <i>Gossypium herbaceum</i>	Kapas	Shrub
• <i>Gossypium hirsutum</i> L.	Kapas	Shrub
• <i>Hibiscus cannabinus</i> L.	Kundrung	Herb
• <i>Hibiscus rosa-sinensis</i> L.	Gurhal	Shrub
• <i>Hibiscus vitifolius</i> L.	Jangali kapas	Herb
• <i>Kydia calycina</i> Roxb.	Barangi	Tree
• <i>Sida acuta</i> Burm. f.	Bala	Herb
• <i>Sida alba</i> L.	Aribala	Herb
• <i>Sida cordifolia</i> L.	Barilal	Herb
• <i>Sida rhombifolia</i> L.	Bhuinguli	Herb
• <i>Thespesia lampas</i> (Cav. ) Dalz. and Gibs.	Bankapas	Shrub
• <i>Thespesia populnea</i> (L.) Sol. ex Correa.	Paras peepal	Tree
• <i>Urena lobata</i> L.	Bachita	Shrub
• <i>Urena rependa</i> L.	dadangsi	Shrub
<b>BOMBACACEAE</b>		
• <i>Adansonia digitata</i> L.	Gorakh Imli	Tree
• <i>Bombax ceiba</i> L.	Semala	Tree
• <i>Ceiba pentandra</i> (L.) Gaertn.	Safed semal	Tree
• <i>Chorisia speciosa</i> St. Hill.	Safed semal	Tree
<b>STERCULIACEAE</b>		
• <i>Helicteres isora</i> L.	Atodi	Shrub
• <i>Sterculia urens</i> Roxb.	Kadai	Tree
• <i>Waltheria indica</i> L.	Khain	Herb
<b>TILIACEAE</b>		
• <i>Corchorus capsularis</i> L.	Cheja	Herb
• <i>Corchorus olitorius</i> L.	Rajan ki bhaji	Herb
• <i>Corchorus tridens</i> L.	Bhaji	Herb
• <i>Corchorus trilocularis</i> L.		Herb
• <i>Grewia flavescens</i> Juss.	Choti dhamni	Shrub
• <i>Grewia subinaequalis</i> DC.	Phalsa	Tree
• <i>Grewia tiliifolia</i> Vahl.	Dhaman	Shrub
• <i>Triumfetta pentandra</i> A. Rich.	Liptiya	Herb
• <i>Triumfetta rhomboidea</i> Jacq.	Kalalptiya	Herb
<b>ZYGOPHYLLACEAE</b>		
• <i>Tribulus terrestris</i> L.	Gokhru	Herb
<b>ELAEOCARPACEAE</b>		
• <i>Elaeocarpus prunifolius</i> (C. Muell.) Masters.	Rudraksha	Tree

<b>LINACEAE</b>		
• <i>Linum usitatissimum</i> L.	Alsi	Herb
<b>OXALIDACEAE</b>		
• <i>Biophytum sensitivum</i> (L.) DC.	Lajwanti	Herb
• <i>Oxalis corniculata</i> L.	Khatti buti	Herb
• <i>Oxalis corymbosa</i> DC		Herb
<b>BALSAMINACEAE</b>		
• <i>Impatiens balsamina</i> L.	JangaliTilli	Herb
<b>RUTACEAE</b>		
• <i>Aegle marmelos</i> (L.) Correa.	Belpatra/Bel	Tree
• <i>Citrus limona</i> (L.) Burm. f.	Pahari Neebu	Shrub
• <i>Citrus maxima</i> (L.)	Chakorta	Shrub
• <i>Feronia limonia</i> (L.) Swingle.	kaith	Tree
• <i>Murraya koenighii</i> (L.) Spreng.	Meetha neem/Kari patta	Shrub
• <i>Murraya paniculata</i> (L.)	Madhukamini	Shrub
• <i>Zanthoxylum armatum</i> L.	Tejbal	Tree
<b>SIMAROUBACEAE</b>		
• <i>Ailanthus excelsa</i> Roxb.	mahaneem	Tree
<b>BALANITACEAE</b>		
• <i>Balanites aegyptiaca</i> (L.) Delile	Hingoti	Tree
<b>BURSERACEAE</b>		
• <i>Boswellia serrata</i> Roxb. ex Colebr.	Salai	Tree
• <i>Garuga pinnata</i> Roxb.	Kakad	Tree
<b>MELIACEAE</b>		
• <i>Azadirachta indica</i> A. Juss.	Limda/Neem	Tree
• <i>Melia azedarach</i> L.	Bakayan	Tree
• <i>Swietinia mahagoni</i> L.	Mahogni	Tree
• <i>Soymida febrifuga</i> (Roxb. ) A. Juss.	Rohan	Tree
• <i>Xylocarpus mollucensis</i> L.	Pusur	Tree
<b>CELASTRACEAE</b>		
• <i>Cassine glauca</i> (Rottb.) O. Kuntze.	Bhutkasa	Tree
• <i>Celastrus paniculatus</i> willd.	Kangan	Climber
• <i>Maytenus emarginata</i> (Willd.) Ding Hou.	Bekal	Shrub
<b>RHAMNACEAE</b>		
• <i>Ziziphus mauritiana</i> Lamk.	Ber	Tree
• <i>Ziziphus nummularia</i> (Burm. f.) Wt. and Arn.	Jhaberi	Shrub
• <i>Ziziphus oenoplia</i> (L.) Mill.	Makoya	Shrub
• <i>Ziziphus xylocarpus</i> (Retz.) Willd.	Ghont	Shrub
<b>VITACEAE</b>		
• <i>Ampelocissus latifolia</i> (Roxb.) Planch.	Jangali angur	Climber
• <i>Cissus quadrangularis</i> L.	Hadjod	Climber
• <i>Cayratia trifolia</i> (L.) Domin.	Panvelo	Climber
<b>LEEACEAE</b>		
• <i>Leea asiatica</i> (L.) Ridsdale.	Nanli Danhi	Herb
• <i>Leea macrophylla</i> Roxb. ex Hornem.	Motali Danhi	Herb
<b>SAPINDACEAE</b>		
• <i>Cardiospermum halicacabum</i> L.	Kanphuta	Herb
• <i>Dodonaea angustifolia</i> L. f.	Sukha Kamer	Shrub
• <i>Sapindus emarginatus</i> Vahl.	Reetha	Tree

• <i>Schleichera oleosa</i> (Lour.) Oken.	Kusum	Tree
<b>ANACARDIACEAE</b>		
• <i>Anacardium occidentale</i> L.	Kaju	Tree
• <i>Buchanania lanzan</i> Spreng.	Chironji	Tree
• <i>Lannea coromandelica</i> (Houtt.) Merr.	Moyana	Tree
• <i>Mangifera indica</i> L.	Aam	Tree
• <i>Rhus parviflora</i> Roxb. ex DC.	Tung	Tree
• <i>Spondias pinnata</i> (L. f.) Kurz.	Khattamba	Tree
<b>MORINGACEAE</b>		
• <i>Moringa oleifera</i> Lamk.	Sahjana	Tree
<b>FABACEAE</b>		
• <i>Abrus precatorious</i> L.	Ratti	Climber
• <i>Abrus pulchellus</i> Wallich ex Thwaites.	kali ratti	Climber
• <i>Aeschynomene indica</i> L.	Phulan	Herb
• <i>Alysicarpus bupleurifolius</i> (L.) DC.	Galiya	Herb
• <i>Alysicarpus monilifer</i> (L.) DC.	Katkhairi	Herb
• <i>Alysicarpus rugosus</i> (Willd.) DC.	Jaingali gailiya	Herb
• <i>Alysicarpus vaginalis</i> (L.) DC.		Herb
• <i>Arachis hypogea</i> L.	Moongphali	Herb
• <i>Atylosia platycarpa</i> Benth.	Bankultha	Herb
• <i>Atylosia scarabaeoides</i> (L.) Benth.	Jangali Kulthya	Climber
• <i>Butea monosperma</i> (Lamk.) Taub.	Palash	Tree
• <i>Butea monosperma</i> var. <i>lutea</i> (Witt) Maheshwari.	Pila palash	Tree
• <i>Butea superba</i> Roxb.	Palash bel	Climber
• <i>Cajanus cajan</i> (L.) Huth.	Arhar	Herb
• <i>Cicer arietinum</i> L.	Chana	Herb
• <i>Clitoria ternatea</i> L.	Aparajita	Climber
• <i>Crotolaria filipes</i> Benth.	Bhuinkhod	Herb
• <i>Crotolaria juncea</i> L.	Sanai	Herb
• <i>Crotolaria medicaginea</i> Lamk.	Gulabi	Herb
• <i>Crotolaria ramossissima</i> Roxb.	Harduli	Herb
• <i>Cyamopsis tetragonoloba</i> (L.) Taub.	Gwar	Herb
• <i>Dalbergia latifolia</i> Roxb.	Sheesham	Tree
• <i>Dalbergia paniculata</i> Roxb.	Dhoban	Tree
• <i>Dalbergia sisoo</i> Roxb.	Sheesh m	Tree
• <i>Desmodium gangeticum</i> (L.) DC.	sarivan	Herb
• <i>Desmodium heterocarpon</i> (L.) DC.		Herb
• <i>Erythrina stricta</i> Roxb.	Handau	Tree
• <i>Erythrina suberosa</i> Roxb.	Gadhapalas	Tree
• <i>Gliricidia sepium</i> (Jacq.) Kunth ex Walp.	Tarul	Tree
• <i>Glycine max</i> (L.) Merr.	Soybean	Herb
• <i>Goniogyna hirta</i> (Willd.) Ali		Herb
• <i>Indigofera cordifolia</i> Heyne ex Roth.	Nilawari	Herb
• <i>Indigofera linifolia</i> (L. f.) Retz. )	Torki	Herb
• <i>Indigofera linnaei</i> Ali	Bhuiguli	Herb
• <i>Indigofera trita</i> L. f.	Nil	Shrub
• <i>Lablab purpureus</i> (L.) Sweet	Papdi	Climber
• <i>Lathyrus aphaca</i> L.	Jangali matar	Herb
• <i>Lathyrus sativus</i> L.	Vachanio	Herb
• <i>Medicago sativa</i> L.	Ranmetho	Herb

• <i>Melilotus indica</i> (L.) Ali.	Jangali methi	Herb
• <i>Milletia extensa</i> (Benth.) Baker	Goradbel	Climber
• <i>Mucuna pruriens</i> (L.) DC.	Kewanch	Climber
• <i>Mucuna pruriens</i> (L.) DC. var. utilis (Wallich ex Wight) Baker ex Burck.	Kwachphalli	Climber
• <i>Ougeinia oogeinsis</i> (Roxb.) Hockhr.	Tinchali	Tree
• <i>Pisum sativum</i> L.	Matar	Herb
• <i>Pongamia pinnata</i> (Linn.) Pierre	kanji	Tree
• <i>Pterocarpus marsupium</i> Roxb.	Beejasal	Tree
• <i>Pueraria tuberosa</i> (Roxb. ex Willd.) DC.	Sirbala	Climber
• <i>Rhynchosia capitata</i> DC.	Bada tinchlo	Climber
• <i>Rhynchosia minima</i> (L.) DC.	Chota tinchlo	Climber
• <i>Sesbania grandiflora</i> (L.) Poir.	Agast	Tree
• <i>Stylosanthes fruticosa</i> (Retz.) Mohlenbr.	Herb	
• <i>Tephrosia hookeriana</i> Wight and Arn.	Garrah	Shrub
• <i>Tephrosia purpurea</i> (L.) Pers.	Sarpunkha	Herb
• <i>Tephrosia villosa</i> (L.) Pers.	Bhamasia	Herb
• <i>Teramnus labialis</i> (L. f.) Spreng.	Mashoni	Climber
• <i>Trifolium pratense</i> L.	Lusan	Herb
• <i>Trigonella foenum-graecum</i> L.	Methi	Herb
• <i>Uraria picta</i> (Jacq.) Desv.	Dabra	Herb
• <i>Vicia sativa</i> L.		Herb
• <i>Vigna mungo</i> (L.) Hepper	Urd	Herb
• <i>Vigna radiata</i> (L.) Wilczek	Moong	Herb
• <i>Vigna sublobata</i> (Roxb.) Babu and Sharma.	Jangali moog	Herb
• <i>Zornia gibbosa</i> Span.		Herb
<b>CAESALPINIACEAE</b>		
• <i>Bauhinia acuminata</i> L.	Ahlad	Tree
• <i>Bauhinia purpurea</i> L.	Koliar	Tree
• <i>Bauhinia tomentosa</i> L.	Pila Kachnar	Shrub
• <i>Bauhinia variegata</i> L.	Kachnar	Tree
• <i>Caesalpinia bonduc</i> (L.) Roxb.	Ghataran	Shrub
• <i>Caesalpinia decapetala</i> (Roth) Alston .	Chilati	Shrub
• <i>Caesalpinia pulcherrima</i> (L.)	Gulturah	Shrub
• <i>Cassia absus</i> L.	Chakasu	Herb
• <i>Cassia fistula</i> L.	Garmala	Tree
• <i>Cassia kleinii</i> Wight and Arn.		Herb
• <i>Cassia occidentalis</i> L.	Kasondi	Shrub
• <i>Cassia siamea</i> Lamk.	Kasod	Tree
• <i>Cassia tora</i> L.	Puadiya	Herb
• <i>Delonix regia</i> (Bojer ex Hook.) Rafin.	Gulmohar	Tree
• <i>Hardwickia binata</i> Roxb.	Anjan	Tree
• <i>Parkinsonia aculeata</i> L.	Bilayati babool	Shrub
• <i>Peltophorum pterocarpum</i> (DC.) Baker ex K. Heyne.		Tree
• <i>Tamarindus indica</i> L.	Imli	Tree
<b>MIMOSACEAE</b>		
• <i>Acacia auriculoformis</i> A. Cunn. ex Benth.	Kikar	Tree
• <i>Acacia catechu</i> (L. f.) Willd.	Khairi	Tree
• <i>Acacia leucophloea</i> (Roxb.) Willd.	Reunja	Tree
• <i>Acacia nilotica</i> (L.) Willd. ex Delile subsp.	Babool	Tree

<i>indica</i> (Benth.) Brenan.		
• <i>Albizia lebbek</i> (L.) Benth.	Kala Siris	Tree
• <i>Albizia odoratissima</i> (L. f.) Benth.	Chichwa	Tree
• <i>Albizia procera</i> (Roxb.) Benth.	Safed Siris	Tree
• <i>Leucaena leucocephala</i> (Lamk.) de Wit	Subabul	Tree
• <i>Mimosa hamata</i> Willd.	Lajavanti	Shrub
• <i>Mimosa himalayana</i> Gamble.	Aar	Shrub
• <i>Mimosa pudica</i> L.	Lajwanti	Herb
• <i>Pithecellobium dulce</i> (Roxb.) Benth. in Hook.	Jangali jalebi	Tree
• <i>Prosopis juliflora</i> (Swartz) DC.	Vilayati babul	Tree
• <i>Xylia xyrocarpa</i> L.		Tree
<b>ROSACEAE</b>		
• <i>Rosa multiflora</i> Thunb.	Gulab bel	Climber
<b>CRASSULACEAE</b>		
• <i>Kalanchoe lanceolata</i> (Forsk.) Pers. var. <i>glandulosa</i> (Hochst. ex A. Rich.) Cufod.	Khatua	Herb
• <i>Kalanchoe pinnata</i> (Lamk.) Pers.	Patharchatta	Herb
<b>VAHLIACEAE</b>		
• <i>Vahliya digyna</i> (Retz.) Kuntze.		Herb
<b>COMBRETACEAE</b>		
• <i>Anogeissus latifolia</i> (Roxb. ex DC.) Wall. ex Guill. and Perr.	Safed Dhawada	Tree
• <i>Anogeissus pendula</i> Edgew.	Kardhai	Tree
• <i>Combretum albidum</i> G. Don.		Liana
• <i>Quisqualis indica</i> L.		Climber
• <i>Terminalia alata</i> Heyne ex Roth.	Sajad	Tree
• <i>Terminalia arjuna</i> (Roxb. ex DC.) Wight and Arn.	Arjun	Tree
• <i>Terminalia bellirica</i> (Gaertn.) Roxb.	Baheda	Tree
• <i>Terminalia catappa</i> L.	Kadavi badam	Tree
• <i>Terminalia chebula</i> Retz.	Harrah	Tree
<b>MYRTACEAE</b>		
• <i>Callistemon citrinus</i> (Curtis) Skeels	Turah	Tree
• <i>Carea arborea</i> L.	Kumbhi	Tree
• <i>Eucalyptus umbellata</i> Dum.	Lipta	Tree
• <i>Psidium guajava</i> L.	Amrud	Tree
• <i>Rhodomyrtus tomentosa</i> L.	Pahari amrood	Tree
• <i>Syzygium cumini</i> (L.) Skeels	Pahari Jamun	Tree
• <i>Syzygium heyneanum</i> Wall. ex Wight and Arn.	Gol jamun	Tree
<b>LYTHRACEAE</b>		
• <i>Ammannia baccifera</i> L.	Nay	Herb
• <i>Lagerstroemia indica</i> L.		Shrub
• <i>Lagerstroemia parviflora</i> Roxb.	Lendia	Tree
• <i>Lawsonia inermis</i> L.	Mehandi	Shrub
• <i>Woodfordia fruticosa</i> (L.) Kurz	Dhwai	Shrub
<b>PUNICACEAE</b>		
• <i>Punica granatum</i> L.	Anar	Shrub
<b>CARICACEAE</b>		
• <i>Carica papaya</i> L.	Papaya	Tree



<b>ONAGRACEAE</b>		
• <i>Ludwigia octovalvis</i> (Jacq.) Raven	Jangali lavang	Herb
<b>PASSIFLORACEAE</b>		
• <i>Passiflora foetida</i> L.	Kaurava pandawa	Climber
<b>CUCURBITACEAE</b>		
• <i>Bennicasa hispida</i> L.	Paitha	Climber
• <i>Citrullus colocyntis</i> (Linn.) Schrad.	Tumadi/Indrayan	Climber
• <i>Citrullus lanatus</i> L.	Tinda	Climber
• <i>Coccinia grandis</i> (L.) Voigt	Kundru	Climber
• <i>Corallocarpus epigaeus</i> (Rottl. and Willd.) Hook. f.	Jangali Marcho	Climber
• <i>Cucumis callosus</i> (Rottl.) Cogn.	jangali kakdi	Climber
• <i>Cucumis sativus</i> L.	Kheera	Climber
• <i>Cucurbita maxima</i> Duch. ex Lamk.	Kaddu	Climber
• <i>Cucurbita moschata</i> (Dutch. ex Lamk.) Dich. ex Poir.	Meetha kaddu	Climber
• <i>Diplocyclos palmatus</i> (L.) Jeffery .	Shivlingi	Climber
• <i>Lagenaria sinceraria</i> (Molina) Standl.	Lauki	Climber
• <i>Luffa acutangula</i> (L.) Roxb.	Kali torai	Climber
• <i>Luffa cylindrica</i> (L.) M. Roem.	Torui	Climber
• <i>Melothria maderaspatana</i> (L.) Cogn.	Bilari	Climber
• <i>Momordica charantia</i> L.	Karela	Climber
• <i>Momordica dioica</i> Roxb. ex Willd.	Kakkuda/Jangli karela	Climber
• <i>Trichosanthes bracteata</i> (Lamk.) Voigt.	Chachinda	Climber
• <i>Trichosanthes cucumerina</i> L.	Ram bel	Climber
• <i>Trichosanthes dioica</i> Roxb.	Parwal	Climber
<b>CACTACEAE</b>		
• <i>Cereus peruvianus</i> (L.) Mill.	Hadzhadi	Shrub
• <i>Opuntia elatior</i> Mill.	Nagphan	Shrub
• <i>Opuntia vulgaris</i> Mill.	Motali nagphan	Shrub
<b>AIZOACEAE</b>		
• <i>Trianthema triquetra</i> Rottl. ex Willd.		Herb
<b>MOLLUGINACEAE</b>		
• <i>Glinus lotoides</i> L.		Herb
• <i>Mollugo cerviana</i> (L.) Seringe		Herb
<b>APIACEAE(UMBELLIFERAE)</b>		
• <i>Bunium persicum</i> L.	Kala zira	Herb
• <i>Coriandrum sativum</i> L.	Dhaniya	Herb
• <i>Centella asiatica</i> (L.) Urban	Mandukparni	Herb
• <i>Dacus carota</i> L.	Gajar	herb
<b>CORNACEAE</b>		
• <i>Alangium salvifolium</i> (L.f.) Wang	Okali	Tree
<b>RUBIACEAE</b>		
• <i>Anthocephalus chinensis</i> (Lamk.) A. Rich. ex Walp.	Kadam	Tree
• <i>Catunaregam nilotica</i> (Stapf) Tirvengadam	Kalaphetra	Shrub
• <i>Gardenia gummifera</i> L. f.	Papada	Shrub
• <i>Gardenia latifolia</i> Ait.	Safed papada	Shrub
• <i>Haldinia cordifolia</i> (Roxb.) Ridsd.	Haldu	Tree
• <i>Hamelia patens</i> Jacq.		Shrub

• <i>Ixora coccinea</i> L.		Shrub
• <i>Mitragyna parvifolia</i> (Roxb.) Korth.	Kalam	Tree
• <i>Morinda pubescens</i> Sm.	Aaledi	Tree
• <i>Morinda umbellata</i> L.	Aal	Shrub
• <i>Oldenlandia corymbosa</i> L.	Khet papra	Herb
• <i>Spermacoce hispida</i> L.		Herb
<b>ASTERACEAE (COMPOSITAE)</b>		
• <i>Acanthospermum hispidum</i> DC.	Chota Gokhru	Herb
• <i>Ageratum conyzoides</i> L.	Kobhi	Herb
• <i>Bidens biternata</i> (Lour.) Merr. and sherff.	Chewada	Herb
• <i>Blainvillea acmella</i> (L.) Philipson		Herb
• <i>Blumea hieracifolia</i> (D. Don) DC. var. <i>macrostachya</i> (DC.) Hook. f.		Herb
• <i>Blumea lacera</i> (Burm.) f. DC.		Herb
• <i>Blumea obliqua</i> (L.) Druc		Herb
• <i>Calendula officinalis</i> L.	Zergul	Herb
• <i>Chrysanthemum indicum</i> L.		Herb
• <i>Cyathocline purpurea</i> (Ham. ex D. Don) O. Ktze		Herb
• <i>Dahlia pinnata</i> Cav.		Herb
• <i>Echinops echinatus</i> Roxb.	Oontakata	Herb
• <i>Eclipta prostrata</i> (L.) L.	Ghamara	Herb
• <i>Elephantopus scaber</i> L.		Herb
• <i>Erigeron asteroides</i> Roxb.		Herb
• <i>Glossocardia bosvallea</i> (L.f.) DC.	Nakchikani	Herb
• <i>Gnaphalium polycaulon</i> Pers.		Herb
• <i>Helianthus annuus</i> L.	Surajmukhi	Herb
• <i>Lagascea mollis</i> Cav.		Herb
• <i>Launaea acaulis</i> (Roxb.) Babc. ex Ker.	Jangali gobi	Herb
• <i>Parthenium hysterophorus</i> L.	Gajarghas	Herb
• <i>Pentanema cernua</i> (Dalz.) Ling .	Jangali surajmukhi	Herb
• <i>Pentanema indica</i> (L.) Ling.	Surajmukhi	Herb
• <i>Solidago canadensis</i> L.		Herb
• <i>Sonchus asper</i> (L.) Hill.		Herb
• <i>Sphaeranthus indicus</i> L.	Gorakhmundi	Herb
• <i>Spilanthes calva</i> DC.	Akalkara	Herb
• <i>Spilanthes ciliata</i> H.B.K.	Charka	Herb
• <i>Synedrella nodiflora</i> (L.) Gaertn.		Herb
• <i>Tagetes erecta</i> L.	Genda	Herb
• <i>Tagetes patula</i> L.	Gendi	Herb
• <i>Tridax procumbens</i> L.	Dimajare	Herb
• <i>Vernonia anthelmintica</i> (L.) Willd.	Ghodajira	Herb
• <i>Vernonia cinerea</i> (Linn.) Less.	Sahdevi	Herb
• <i>Vernonia elliptica</i> DC.	Parda bel	Climber
• <i>Wedelia urticaefolia</i> DC. var. <i>wightii</i> DC.		Herb
• <i>Xanthium indicum</i> Koen.	Bada Gokhru	Herb
• <i>Zinnia elegans</i> Jacq.	Zenia	Herb
<b>PLUMBAGINACEAE</b>		
• <i>Plumbago zeylanica</i> L.	Chitrak	Shrub
<b>PRIMULACEAE</b>		

• <i>Anagalis arvensis</i> L.		Herb
<b>SAPOTACEAE</b>		
• <i>Madhuca longifolia</i> (J. Koenig) Macbr. var. <i>latifolia</i> (Roxb.) Chevalier	Mahua	Tree
• <i>Manilkara zapota</i> (L.) P. Royen	Chiku	Tree
• <i>Manilkara hexandra</i> (Roxb.) Dubard	Khirni	Tree
• <i>Mimusops elengi</i> L.	Maulsri	Tree
<b>EBENACEAE</b>		
• <i>Diospyros melanoxylon</i> Roxb.	Tendu	Tree
<b>OLEACEAE</b>		
• <i>Jasminum auriculatum</i> Vahl	Juhi	Climber
• <i>Jasminum grandiflorum</i> L.	Chameli	Climber
• <i>Jasminum sambac</i> (L.) Aiton.	Bela	Shrub
• <i>Nyctanthes arbor-tristis</i> L.	Harsingar	Shrub
• <i>Schrebera swietenoides</i> Roxb.	Mokha	Tree
<b>SALVADORACEAE</b>		
• <i>Salvadora persica</i> L.	Pilu	Shrub
<b>APOCYNACEAE</b>		
• <i>Allamanda cathartica</i> L.		Climber
• <i>Alstonia scholaris</i> (L.) R.Br.	Saptaparni	Tree
• <i>Carissa carandas</i> L.	Karonda	Shrub
• <i>Carissa opaca</i> Stapf ex Haines.	Karondi	Shrub
• <i>Catharanthus pusillus</i> (Murr.) G. Don.	Jangali Baramasi	Herb
• <i>Catharanthus roseus</i> (L.) G. Don.	Sada-bahar	Herb
• <i>Holarrhena pubescens</i> (Buch.-Ham.) Wallich ex G. Don.	Kurchi	Tree
• <i>Ichnocarpus frutescens</i> (Linn.) R. Br.	Dheemarbel	Climber
• <i>Nerium indicum</i> Mill.	Kaner	Shrub
• <i>Plumeria alba</i> L.	Champa/gulachin	Shrub
• <i>Plumeria rubra</i> L.	Champa	Shrub
• <i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz .	Sarpganda	Shrub
•		
• <i>Tabernaemontana divaricata</i> (L.) R. Br.	Chandini	Shrub
•		
• <i>Thevetia peruviana</i> (Pers.) K. Schum.	Pili bitti	Shrub
• <i>Valleria solanacea</i> L.	Dudhi Bel	Shrub
• <i>Wrightia arborea</i> (Dennst.) Mabberley.	Kueda	Tree
• <i>Wrightia tinctoria</i> R. Br.	Meetha indrajou	Tree
<b>ASCLEPIADACEAE</b>		
•		
• <i>Calotropis gigantea</i> (L.) R.Br.	Madar	shrub
•		
• <i>Calotropis procera</i> (Aiton) R. Br.	Aak	shrub
•		
• <i>Ceropegia bulbosa</i> Roxb.	Bosia kand	Climber
•		
• <i>Cryptolepis buchanani</i> Roem. and Schult.	Dudhibel	shrub
•		
• <i>Cryptostegia grandiflora</i> R.Br.	Rubber ki bel	Liane
•		
• <i>Gymnema hirsutum</i> Wight and Arnott	Meshringi	Climber

• <i>Hemidesmus indicus</i> (L.) R. Br.	Anantmul	Climber
•		
• <i>Holostemma ada-kodien</i> Schult.	Chhirovel	Climber
•		
• <i>Pergularia daemia</i> (Forssk.) Chiov.	Sadowani	Climber
• <i>Tylophora rotundifolia</i> Buch.-Ham. ex Wight	Dambela	Climber
• <i>Wattakaka volubulis</i> (L. f.) Stapf.	Dudhali	Climber
<b>LOGANIACEAE</b>		
•		
• <i>Mitreola petiolata</i> (J.F. Gmelin) Torr and A. Gray.	Missing	Herb
•		
• <i>Spigelia anthelmia</i> L.	Gudari	Herb
• <i>Strychnos nux-vomica</i> L.	Kuchla	Tree
<b>BUDDLEJACEAE</b>		
•		
• <i>Buddleja asiatica</i> Lour.	Neemada	Herb
<b>GENTIANACEAE</b>		
•		
• <i>Canscora decussata</i> (Roxb.) Roem. and Schult.	Sankhphuli	Herb
• <i>Centarium meyeri</i> (Bunge) Druce.		Herb
• <i>Enicostema axillare</i> (Lam.) A. Raynal.	Dedpaliya	Herb
•		
• <i>Exacum pedunculatum</i> L.		Herb
<b>MENYANTHACEAE</b>		
•		
• <i>Nymphoides indica</i> (L.) Kuntze.		Herb
<b>HYDROPHYLLACEAE</b>		
•		
• <i>Hydrolea zeylanica</i> (L.) Vahl.		Herb
<b>BORAGINACEAE</b>		
•		
• <i>Cordia dichotoma</i> G. Forster	Lasoda	Tree
•		
• <i>Ehretia laevis</i> Roxb.	Datragi	Tree
• <i>Helitropium indicum</i> L.	Hathisunda	Herb
• <i>Trichodesma indicum</i> (Linn.) R. Br. ex Lehm.	Ghamara	Herb
• <i>Trichodesma stocksii</i> Boiss. (JBA-652)		Herb
<b>CONVOLVULACEAE</b>		
•		
• <i>Argyreia kleiniana</i> (Roem. and Schult.) Raizada.		Climber
• <i>Argyreia nervosa</i> (Burm. f.) Bojer.	Samander-ka-pat	Liane
•		
• <i>Convolvulus arvensis</i> L.	Grachi	Herb
• <i>Convolvulus prostratus</i> Forssk.	Shankhpushpi	Herb
• <i>Evolvulus alsinoides</i> (L.) L.	Shankhpushpi	Herb
• <i>Evolvulus nummularius</i> (L.) L.	Umarichata	Shurb

• <i>Ipomoea carnea</i> Jacq.	Shakkar kandi	climber
• <i>Ipomoea batatas</i> (L.) Lam.	Chatribel	climber
• <i>Ipomoea cairica</i> (L.) Sweet.		Climber
• <i>Ipomoea dichroa</i> (Roem. and Schult.) Choisy.		Herb
• <i>Ipomoea eriocarpa</i> R.Br.	Naari ka sag	Herb
• <i>Ipomoea hederifolia</i> L.		Climber
• <i>Ipomoea nil</i> (L.) Roth.	Mirchai	Climber
• <i>Ipomoea pestigridis</i> L.	Nasedi	Climber
• <i>Ipomoea quamoclit</i> L.	Kamlata	Climber
• <i>Ipomoea sindica</i> Stapf.		Climber
• <i>Ipomoea turbidata</i> Lag.		Climber
• <i>Merremia emarginata</i> (Burm. f.) Hall. f.	Undir kani	Herb
• <i>Merremia tridentata</i> (L.) Hall. f.		Herb
• <i>Operculina turpenthum</i> (L.) Manso .		Climber
• <i>Rivea hypocrateriformis</i> (Desr.) Choisy.	Parh	Climber
<b>CUSCUTACEAE</b>		
• <i>Cuscuta campestris</i> Yunck.	Amarbel	Climber
• <i>Cuscuta chinensis</i> Lam.	Amarbel	Climber
• <i>Cuscuta reflexa</i> Roxb.	Akasbel	Climber
<b>SOLANACEAE</b>		
• <i>Capsicum annuum</i> L.	Mirch	Herb
• <i>Cestrum aurantanum</i> L.	Din Ka Raja	Herb
• <i>Cestrum nocturnum</i> L.	Rat-ki-rani	Shrub
• <i>Datura innoxia</i> Mill.	Dhatura	Shrub
• <i>Datura metel</i> L.	Kala dhatura	Shrub
• <i>Lycopersicon esculentum</i> Mill.	Tamatar	Herb
• <i>Nicotiana plumbaginifolia</i> Viv.	Jangali tamakhu	Herb
• <i>Petunia hybrida</i> x Hort. ex Vilm.		Herb
• <i>Physalis minima</i> L.	Poptiya	Herb
• <i>Solanum melongena</i> L.	Bhanta	Herb
• <i>Solanum nigrum</i> L.	Makoi	Herb
• <i>Solanum tuberosum</i> L.	Aalu	Herb
• <i>Solanum virginianum</i> L.	Kateri	Herb
• <i>Withania somnifera</i> (L.) Dunal.	Asgandh	Shrub
<b>SCROPHULARIACEAE</b>		
• <i>Bacopa hamiltoniana</i> (Benth.) Wettst.	Bam	Herb
• <i>Bacopa monnieri</i> (L.) Wettst.	Brahmi	Herb
• <i>Lindenbergia indica</i> (L.) Vatke .		Herb
• <i>Lindernia ciliata</i> (Colsm.) Pennell.		Herb
• <i>Lindernia crustacea</i> (L.) F.v. Muell.		Herb
• <i>Linernia antipoda</i> (L.) Alston.		Herb
• <i>Russelia equisetiformis</i> Schlechtend. and Cham.		Shrub
• <i>Striga angustifolia</i> (D. Don) Saldanha.		Herb
• <i>Torenia indica</i> Saldanha (JBA-585)		Herb
• <i>Veronica anagalis-aquatica</i> L.		Herb
<b>BIGNONIACEAE</b>		
• <i>Dolichandrone falcata</i> (Wallich ex DC.) Seem.		Tree
• <i>Jacarandra mimosaeifolia</i> D. Don.	Niligulmohar	Tree

• <i>Kigelia africana</i> (Lam.) Benth.	Jharphanus	Tree
• <i>Millingtonia hortensis</i> L. f.	Aakash neem	Tree
• <i>Oroxylum indicum</i> (L.) Venten.	Sonpata	Tree
• <i>Pyrostegia venusta</i> (Ker-Gawl.) Miers.		Liana
• <i>Tecoma stans</i> (L.) Juss. ex Kunth.	Sonpati	Shrub
• <i>Tecomella undulata</i> (Sm.) Seem.	Ragtroida	Tree
<b>PEDALIACEAE</b>		
• <i>Sesamum indicum</i> L.	Til	Herb
<b>MARTYNIACEAE</b>		
• <i>Martynia annua</i> L.	Bicchhu	Herb
<b>ACANTHACEAE</b>		
• <i>Adhatoda zeylanica</i> Medik.	Adulsa	Shrub
• <i>Andrographis paniculata</i> (Burm. f.) Wallich ex Nees.	Bhuin neem	Herb
• <i>Barleria cristata</i> L.	Tandralu	Shrub
• <i>Barleria prionitis</i> L.	Piyabans	Shrub
• <i>Blepharis asperrima</i> Nees.		Herb
• <i>Blepharis repens</i> (Vahl) Roth		Herb
• <i>Crossandra infundibuliformis</i> (L.) Nees	Priya darsa	Herb
• <i>Dipterocanthus patulus</i> (Jacq.) Nees		Herb
• <i>Elytraria acaulis</i> (L. f.) Lindau		Herb
• <i>Eranthemum roseum</i> (Vahl) R. Br.		Herb
• <i>Haplanthodes tentaculatus</i> (Nees) Majumdar	Katsula	Herb
• <i>Hemigraphis latebrosa</i> (Heyne ex Roth) Nees.	Bhangara	Herb
• <i>Hygrophila auriculata</i> (Schumach.) Heine.	Talmakhana	Herb
• <i>Indoneesiella echioides</i> (L.) Sreemadh.		Herb
• <i>Justicia diffusa</i> Willd.	Makandar	Herb
• <i>Justicia procumbens</i> L.		Herb
• <i>Justicia simplex</i> D. Don Thunb.	Bansa	Herb
• <i>Nelsonia canescens</i> (Lam.) Spreng.	Chhota aandhi	Herb
• <i>Neuracanthus sphaerostachys</i> (Nees) Dalz.		Herb
• <i>Peristrophe paniculata</i> (Forssk.) Brummitt.	Atrilal	Herb
• <i>Ruellia tuberosa</i> L.		Herb
• <i>Rungia pectinata</i> (L.) Nees.		Herb
• <i>Rungia repens</i> (L.) Nees.	Kharmor	Herb
<b>VERBENACEAE</b>		
• <i>Clerodendrum inerme</i> (L.) Gaertn.	Vilayati mehndi	Shrub
• <i>Clerodendrum multiflorum</i> (Burm. f.) Kuntze.		Shrub
• <i>Clerodendrum serratum</i> (L.) Moon.	Bharangi	Shrub
• <i>Clerodendrum splendens</i> G. Don ex James.		Climber
• <i>Duranta repens</i> L.		Shrub
• <i>Gmelina arborea</i> Roxb.	Siwan	Tree
• <i>Gmelina philippensis</i> Cham.		Tree
• <i>Lantana camara</i> L. var. <i>aculeata</i> (L.) Moldenke	Zai	Shrub
• <i>Lantana indica</i> Roxb.	Raimuniya	Shrub
• <i>Phyla nodiflora</i> (L.) E.		Herb
• <i>Tectona grandis</i> L. f.	Sagwan	Tree

• <i>Verbena bipinnatifida</i> Schauer.		Herb
• <i>Vitex leucoxydon</i> L. f.	Safed nirgundi	Shrub
• <i>Vitex negundo</i> L.	Nirgundi	Shrub
• <i>Vitex trifolia</i> L.		Shrub
<b>LAMIACEAE</b>		
• <i>Anisomeles indica</i> (L.) Kuntze.	Karahi	Herb
• <i>Hyptis suaveolens</i> (L.) Poit.	Vilayati tulsi	Herb
• <i>Lavandula bipinnata</i> (Roth) Kuntze.		Herb
• <i>Leonotis nepetifolia</i> (L.) R. Br.	Gathora	Herb
• <i>Leucas aspera</i> (Willd.) Link.	Bhodaki	Herb
• <i>Leucas cephalotes</i> (Koeing ex Roth) Spreng.	Dhurpi sag	Herb
• <i>Ocimum basilicum</i> L.	Jangali Tulsi	Herb
• <i>Ocimum canum</i> Sims.	Ban tulsa	Herb
• <i>Ocimum tenuiflorum</i> L.	Tulsi	Herb
• <i>Salvia aegyptiaca</i> L.		Herb
<b>NYCTAGINACEAE</b>		
• <i>Bougainvillea glabra</i> Choisy.	Boganbel	Liana
• <i>Bougainvillea spectabilis</i> Willd.	Boganbel	Liana
• <i>Boerhavia diffusa</i> L.	Punarnava	Herb
• <i>Mirabilis jalapa</i> L.	Gulbas	Herb
<b>AMARANTHACEAE</b>		
• <i>Achyranthes aspera</i> Linn.	Apamarg	Herb
• <i>Achyranthes aspera</i> var. <i>porphyristachya</i> (Wallich ex Moq.) Hook. f.	Chirchita	Herb
• <i>Aerva lanata</i> (L.) Juss. ex Schult.	Gorakhganja	Herb
• <i>Aerva sanguinolenta</i> (L.) Blume.		Herb
• <i>Alternanthera pungens</i> Kunth	Gurrosag	Herb
• <i>Alternanthera sessilis</i> (L.) R.Br. ex DC.	Gurroo	Herb
• <i>Amaranthus dubius</i> Mart. ex Thell.	Jangali chaulai	Herb
• <i>Amaranthus spinosus</i> L.	Kantachulai	Herb
• <i>Amaranthus viridis</i> L.	Chulai	Herb
• <i>Celosia argentea</i> L.	Jangalimurga	Herb
• <i>Digera muricata</i> (L.) Mart.	Lesua	Herb
• <i>Gomphrena celosioides</i> Mart.		Herb
• <i>Pupalia lappacea</i> (L.) Juss.	Kala liptiya	Herb
<b>CHENOPODIACEAE</b>		
• <i>Chenopodium album</i> L.	Bathua	Herb
• <i>Chenopodium murale</i> L.	Bathua	Herb
<b>BASELLACEAE</b>		
• <i>Basella alba</i> L.	Poibhaji	Climber
<b>POLYGONACEAE</b>		
• <i>Antigonon leptopus</i> Hook. and Arnott .		Climber
• <i>Polygonum glabrum</i> Willd.	Nandi bhaji	Herb
• <i>Rumex dentatus</i> L. subsp. <i>Klotzschianus</i> (Meisn.) Rchb. f.	Amabavah	Herb
<b>ARISTOLOCHIACEAE</b>		
• <i>Aristolochia indica</i> L.	Isharmul	Climber
<b>PIPERACEAE</b>		
• <i>Peperomia pellucida</i> (L.) Kunth.		Herb
<b>LAURACEAE</b>		
• <i>Cassytha filiformis</i> L.	Amarbel	Climber

<b>LORANTHACEAE</b>		
• <i>Dendrophthoe falcta</i> (L. f.) Etting.	Banda	Parasite
• <i>Loranthus philippensis</i> Cham. and Schlechtend.		Parasite
• <i>Viscum articulatum</i> Burm. f.	Madang	Parasite
<b>SANTALACEAE</b>		
• <i>Santalum album</i> L.	Chandan	Tree
<b>EUPHORBIACEAE</b>		
• <i>Acalypha ciliata</i> Forssk..		Herb
• <i>Acalypha indica</i> L.	Kuppi	Herb
• <i>Acalypha wilkesiana</i> Muell. Arg.		Shrub
• <i>Bridelia retusa</i> (L.) spreng.	Agon	Tree
• <i>Codiaenum variegatum</i> (L.) Blume.		Shrub
• <i>Croton bonpalindianus</i> Baill.		Herb
• <i>Croton tiglium</i> L.	Jamal ghoti	Herb
• <i>Drypetes roxburghii</i> (Wallich) Hurusawa.	Kanghi	Tree
• <i>Euphorbia coccinia</i> Roth.		Herb
• <i>Euphorbia dracunculoides</i> Lam.	Chagalputputi	Herb
• <i>Euphorbia fusiformis</i> Buch.-Ham.	Kharkhundiya	Herb
• <i>Euphorbia heterophylla</i> L.	Dudhi	Herb
• <i>Euphorbia heyneana</i> Spreng.	Choti Dudhaly	Herb
• <i>Euphorbia hirta</i> L.	Kali dudhi	Herb
• <i>Euphorbia milli</i> Desmoul.	Dudhi	Herb
• <i>Euphorbia nerifolia</i> L.	Thuvar	Shrub
• <i>Euphorbia nivulia</i> Buch.-Ham.	Hathalothuvar	Shrub
• <i>Euphorbia thymifolia</i> L.	Dudhalo	Herb
• <i>Euphorbia tirucalli</i> L.	Thor	Shrub
• <i>Exoecaria agallocha</i> L.	Gangwa	Shrub
• <i>Jatropha curcas</i> L.	Ratanjyot	Shrub
• <i>Jatropha gossypifolia</i> L.	Lal ratanjot	Shrub
• <i>Jatropha integerrima</i> Jacq.		Shrub
• <i>Jatropha nana</i> Dalz.	Ratan	Shrub
• <i>Pedilanthus tithymaloides</i> (L.) Poit.		Shrub
• <i>Phyllanthus amarus</i> Schumach. and Thonn.	Bhuin Aanwala	Herb
• <i>Phyllanthus emblica</i> L.	Amla	Tree
• <i>Phyllanthus maderaspatensis</i> L.	Kanocha	Herb
• <i>Phyllanthus reticulatus</i> Poir.		Shrub
• <i>Phyllanthus virgatus</i> G. Forster.		Herb
• <i>Ricinus communis</i> L.	Arandi	Tree
• <i>Securinega leucopyrus</i> (Willd.) Muell. Arg.	Hartho	Shrub
• <i>Synadenium grantii</i> Hook. f.		Shrub
<b>URTICACEAE</b>		
• <i>Laportea interrupta</i> (L.) Chew.	Lal bichua	Herb
<b>ULMACEAE</b>		
• <i>Holoptelea integrifolia</i> (Roxb.) Planch.	Ovala	Tree
• <i>Trema orientalis</i> (L.) Blume	Dandanni	Shrub
<b>MORACEAE</b>		
• <i>Artocarpus heterophyllus</i> Lam.	Kathal	Tree
• <i>Ficus benghalensis</i> L.	Bargad	Tree
• <i>Ficus benjamina</i> L. var. <i>nuda</i> (Miq.) Barrett.		Liana
• <i>Ficus hispida</i> L. f.	Bhuin gular	Tree



• <i>Ficus palmata</i> Forsk.	Khemri	Tree
• <i>Ficus racemosa</i> L.	Umari	Tree
• <i>Ficus religiosa</i> L.	Peepal	Tree
• <i>Ficus virens</i> Dryander.	Pakar	Tree
<b>CASURINACEAE</b>		
• <i>Casurina equisetifolia</i> L.		Shrub
<b>MONOCOTYLEDON</b>		
<b>HYDROCHARITACEAE</b>		
• <i>Hydrilla verticillata</i> (L.f.) Royle .		Herb
<b>ORCHIDACEAE</b>		
• <i>Eulophia herbacea</i> Lindl.		Herb
• <i>Habenaria commelinifolia</i> (Roxb.) Wallich ex Lindl.		
• <i>Habenaria digitata</i> Lindl.		Herb
• <i>Habenaria frucifera</i> Lindl.		Herb
• <i>Habenaria longicorniculata</i> Graham.		Herb
• <i>Habenaria marginata</i> Colebr.	Vanpyaz	Herb
• <i>Malaxis acuminata</i> D. Don.		Herb
• <i>Nervilia aragoana</i> Gaud.	Dudh goliya	Herb
• <i>Peristylus goodyeroides</i> (D. Don) Lindl.		Herb
• <i>Vanda tessellata</i> (Roxb.) Hook. ex G. Don.	Banda	Herb
<b>ZINGIBERACEAE</b>		
• <i>Curcuma amada</i> Roxb.	Ambahaldi	Herb
• <i>Curcuma longa</i> L.	Haldi	Herb
• <i>Curcuma pseudomontana</i> J. Graham.	Jangali Haldi	Herb
• <i>Zingiber officinale</i> Roscoe.	Adrak	Herb
<b>COSTACEAE</b>		
• <i>Costus speciosus</i> (J. Koeing) Sm.	Jangali Aadu	Herb
<b>MUSACEAE</b>		
• <i>Ensete superbum</i> (Roxb.) Cheesman.	Choti Keli	Herb
• <i>Musa paradisiaca</i> L.	Kela	Herb
• <i>Musa rosacea</i> Jacq.	Jangali kela	Herb
<b>CANNACEAE</b>		
• <i>Canna flaccida</i> Salisb.	Keli	Herb
• <i>Canna indica</i> L.	Lal keli	Herb
<b>AMARYLLIDACEAE</b>		
• <i>Crinum asiaticum</i> L.	Kanwal	Herb
• <i>Zephyranthes flava</i> G. Nicols.		Herb
<b>AGAVACEAE</b>		
• <i>Agave americana</i> L.	Hathichikar	Herb
• <i>Agave angustifolia</i> Haw.	Guial	Herb
• <i>Agave cantula</i> Roxb.	Choti guial	Herb
• <i>Cordyline terminalis</i> Kunth.		Tree
• <i>Dracaena elliptica</i> Thunb.		Shrub
• <i>Polyanthes tuberosa</i> L.	Gandha	Herb
• <i>Sansevieria hyacinthoides</i> (L.) Druc.		Herb
<b>HYPOXIDACEAE</b>		
• <i>Curculigo orchioides</i> Gaertn.	Kali-musali	Herb
• <i>Hypoxis aurea</i> Lour.	Bhuin khajur	Herb
<b>DIOSCOREACEAE</b>		
• <i>Dioscorea bulbifera</i> L.	Kanda	Climber

• <i>Dioscorea hispida</i> Dennst.	Baichandi	Climber
• <i>Dioscorea oppositifolia</i> L.	Bada Kanda	Climber
• <i>Dioscorea pentaphylla</i> L.	Dukkar kanda	Climber
<b>LILIACEAE</b>		
• <i>Allium cepa</i> L.	Piyaz	Herb
• <i>Allium sativum</i> L.	Laahsun	Herb
• <i>Aloe vera</i> (Linn.) Burm. f.	Ghee-gwar	Herb
• <i>Asparagus racemosus</i> Willd.	Sesliya Ghas	Climber
• <i>Chlorophytm tuberosum</i> (Roxb.) Baker.	Safedmusli	Herb
• <i>Chlorophytum borivilianum</i> Santapau and Fernandis.	Dhawali musli	Herb
• <i>Gloriosa superba</i> L.	Ranchenadi	Climber
• <i>Iphigenia indica</i> (L.) A. Gray.	Jangali lahan	Herb
• <i>Urginea indica</i> (Roxb.) Kunth.	Jangali pyaz	Herb
<b>PONTEDERIACEAE</b>		
• <i>Eichhornia crassipes</i> (Mart.) Solms.	Jalkumbhi	Herb
<b>COMMELINACEAE</b>		
• <i>Commelina benghalensis</i> L.	Kenna	Herb
• <i>Commelina erecta</i> L.	Kenna	Herb
• <i>Cyanotis arcotensis</i> Rolla Rao.		Herb
• <i>Murdannia nudiflora</i> (L.) Brenan.		Herb
• <i>Rhoeo spathacea</i> (Sw.) W.T. Stearn.		Herb
<b>ARECACEAE</b>		
• <i>Borassus flabellifer</i> L.	Tad	Tree
• <i>Cocos nucifera</i> L.	Nariyal	Tree
• <i>Phoenix sylvestris</i> (L.) Roxb.	Shindi	Tree
• <i>Roystonea regia</i> (Humb., Bonpl. and Kunth) O.F. Cook.	Bilayati tad	Tree
<b>PANDANACEAE</b>		
• <i>Pandanus odoratissimus</i> L. f.		Shrub
<b>TYPHACEAE</b>		
• <i>Typha angustifolia</i> L.	Ghav bajara	Herb
<b>ARACEAE</b>		
• <i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson.	Suran Kand	Herb
• <i>Amorphophallus sylvaticus</i> (Roxb.) Kunth.	Jangali Suran	Herb
• <i>Arisaema tortuosum</i> (Wallich) Schott.	Jangali Tad	Herb
• <i>Colocasia esculenta</i> (L.) Schott.	Arvi	Herb
• <i>Remusatia vivipara</i> (Roxb.) Schott.		Herb
• <i>Sauromatum venosum</i> (Aiton) Schott.	Pebada	Herb
<b>ERIOCAULACEAE</b>		
• <i>Eriocaulon quinquangulare</i> L.		Herb
<b>CYPERACEAE</b>		
• <i>Bulbostylis barbata</i> (Rottb.) C.B. Clarke.		Herb
• <i>Carex cruciata</i> Wahlenb.		Herb
• <i>Cyperus brevifolius</i> (Rottb.) Hassk.		Herb
• <i>Cyperus cephalotes</i> Vahl		Herb
• <i>Cyperus cuspidatus</i> Kunth		Herb
• <i>Cyperus flavidus</i> Retz.		Herb
• <i>Cyperus platystylis</i> R. Br.		Herb
• <i>Cyperus rotundus</i> L.	Nagarmotha	Herb

• <i>Fimbristylis dichotoma</i> (L.) Vahl.		Herb
• <i>Fimbristylis squarrosa</i> Vahl .		Herb
• <i>Lipocarpa chinensis</i> (Osbeck) Kern.		Herb
• <i>Rhynchospora rubra</i> (Lour.) Makino .		Herb
• <i>Scirpus articulatus</i> L.		Herb
<b>POACEAE</b>		
• <i>Allopteroopsis cimicina</i> (L.) Stapf.		Herb
• <i>Apluda mutica</i> L. (JBA-238)		Herb
• <i>Aristida funiculata</i> Trin. and Rupr.		Herb
• <i>Arundinella ciliata</i> (Roxb.) Nees ex Miq		Herb
• <i>Avena sativa</i> L.	Oat	Herb
• <i>Bambusa arundinaceae</i> (Retz.) Willd. .	Vahan	Tree
• <i>Bothriochloa glabra</i> (Roxb.) A. Camus .		Herb
• <i>Brachiaria eruciformis</i> (Sm.) Griseb.		Herb
• <i>Cenchrus ciliaris</i> L.		Herb
• <i>Chloris barbata</i> Sw.		Herb
• <i>Chloris virgata</i> Sw.		Herb
• <i>Chrysopogon fulvus</i> (Spreng) Chiov		Herb
• <i>Coix lacryma-jobi</i> L.	Mani	Herb
• <i>Cymbopogon martinii</i> (Roxb.) Wats	Nibu ghas	Herb
• <i>Cynodon dactylon</i> (L.) Pers.	Dub	Herb
• <i>Dactyloctenium aristatum</i> Link.		Herb
• <i>Dendrocalamus strictus</i> (Roxb.) Nees .	Bans	Tree
• <i>Desmostachya bipinnata</i> (L.) Stapf .	Dabha	Herb
• <i>Dichanthium annulatum</i> (Forssk.) Stapf.		Herb
• <i>Digitaria ciliaris</i> (Retz.) Keeler		Herb
• <i>Echinochloa crusgalli</i> (L.) P. Beauv.		Herb
• <i>Eleusine coracana</i> (L.) Gaertn.	Mandua	Herb
• <i>Eragrostiella brachyphylla</i> (Stapf.) Bor.		Herb
• <i>Eragrostis ciliaris</i> (L.) R. Br.		Herb
• <i>Eragrostis ciliata</i> (Roxb.) Nees.		Herb
• <i>Eragrostis tenella</i> (L.) P. Beauv. ex Roem. and Schult.		Herb
• <i>Eulalia trispicata</i> (Schult.) Henr.		Herb
• <i>Hemathria compressa</i> (L. f.) R. Br.		Herb
• <i>Heteropogon contortus</i> (L.) P. Beauv. ex Roem. and Schult.	Sukala ghas	Herb
• <i>Hordeum vulgare</i> L.	Jau	Herb
• <i>Imperata cylindrica</i> (L.) P. Beauv. var. major (Nees) Hubb. ex Hubb. and Vaughan.		Herb
• <i>Ischaemum indicum</i> (Houtt.) Merr.		Herb
• <i>Iseilema laxum</i> Hack. in A. DC.		Herb
• <i>Leptochloa chinensis</i> (L.) Nee .		Herb
• <i>Melanocentris jacuemontii</i> Jaub. and Spach .		Herb
• <i>Ophiuros exaltatus</i> (L.) Kuntze .		Herb
• <i>Oplismenus burmannii</i> (Retz.) P. Beauv.		Herb
• <i>Oryza sativa</i> L.	Chawal	Herb
• <i>Panicum notatum</i> Retz.		Herb
• <i>Panicum sumatrense</i> Roth ex Roem. and Schult.		Herb

• <i>Paspalidium punctatum</i> (Burm. f.) A. Camus	Torki	Herb
• <i>Paspalum plicatulum</i> Michx.		Herb
• <i>Pennisetum pedicellatum</i> Trin.		Herb
• <i>Perotis indica</i> (L.) Kuntze .		Herb
• <i>Phragmites karka</i> (Retz.) Trin. ex Steud.		Herb
• <i>Polypogon monspeliensis</i> (L.) Desf.		Herb
• <i>Rottboelia exaltata</i> L. f.		Herb
• <i>Saccharum officinarum</i> L.	Ganna	Shrub
• <i>Saccharum spontaneum</i> L.	Kans	Herb
• <i>Sacciolepis interrupta</i> (Willd.) Stapf .		Herb
• <i>Schizostachyum pergracile</i> (Munro) R. Majumdar .		Herb
• <i>Sehima nervosum</i> (Rottl.) Stapf .		Herb
• <i>Sehima sulcatum</i> (Hack.) A. Campus .		Herb
• <i>Setaria italica</i> (L.) P. Beauv.		Herb
• <i>Setaria pumila</i> (Poir.) Roem. and Schult.		Herb
• <i>Setaria verticillata</i> (L.) P. Beauv.	Liptiya	Herb
• <i>Sorghum bicolor</i> (L.) Moench .		Herb
• <i>Sorghum miliaceum</i> (Roxb.) Snowden .		Herb
• <i>Sporobolus diander</i> (Retz.) P. Beauv.		Herb
• <i>Sporobolus indicus</i> (L.) R. Br.		Herb
• <i>Tetrapogon tenellus</i> (Roxb) Chiov.		Herb
• <i>Themeda quadrivalvis</i> (L.) Kuntze .		Herb
• <i>Themeda triandra</i> Forssk.		Herb
• <i>Thysanolaena maxima</i> (Roxb.) Kuntze .		Herb
• <i>Tragus roxburghii</i> Panigrahi .		Herb
• <i>Tripogon jacquemontii</i> Stapf .		Herb
• <i>Triticum aestivum</i> L.	Gehu	Herb
• <i>Urochloa panicoides</i> P. Beauv.		Herb
• <i>Vetiveria lawsonii</i> (Hook. f.) Blatt. and McCann.		Herb
• <i>Vetiveria zizanioides</i> (L.) Nash.	Khas	Herb
• <i>Zea mays</i> L.	Makki	Herb

	Group/ Taxa	Ratio
Monocot to Dicot	Families	1: 4.8
	Genera	1: 3.6
	Species	1: 3.6
Families to Genera	Dicot	1: 3.8
	Monocot	1: 5.0
	Total	1: 4.0
Genera to Species	Dicot	1: 1.5
	Monocot	1: 1.4
	Total	1: 1.4

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