

Medicinal Plants Diversity and their Conservation Status in Wildlife Institute of India (WII) Campus, Dehradun

B.S. Adhikari*, M.M. Babu, P.L. Saklani and G.S. Rawat

Herbarium Section, Department of Habitat Ecology,
Wildlife Institute of India, Dehradun 248 001, Uttarakhand
Phone 91 135 2640112-115, Fax 91 135 2640117

* Corresponding author: adhikaribs@wii.gov.in

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Abstract

The present paper deals with the status and distribution pattern of medicinal plants in Wildlife Institute of India campus, Dehradun, Uttarakhand, India. Based on extensive literature survey, of the total (#605 plants) 63% are medicinal plants. These medicinal plants comprise of 63 trees, 55 shrubs, 208 herbs, 34 climbers, 3 ferns and 10 grasses belong to 94 families. Poaceae, Asteraceae, Cyperaceae and Euphorbiaceae are the largest families and have more than 20 species of medicinal plants. Fabaceae, Asteraceae, Poaceae, Euphorbiaceae, Lamiaceae, Malvaceae, Acanthaceae, Apocynaceae, Caesalpiniaceae, Verbenaceae, Cucurbitaceae and Solanaceae are the dominant families with high species diversity. The nativity of plants shows that 21 species are from Himalayan region and 101 from Indian oriental region, while remaining are from various parts of the world. *Pyrus pashia* and *Rubia cordifolia* have the distribution up to cool temperate region among trees and climbers, respectively. Among plant parts, bark, leaves and roots are mainly used for trees, shrubs and climbers, respectively. However, the entire plant of herbs, grasses and sedges and leaves and roots of ferns are used. Most of the species of trees, herbs and climbers are used for diarrhoea/dysentery, shrubs for cough/cold, grasses and sedges for fever and ferns for skin diseases. The conservation efforts have been discussed in the paper.

Keywords: Doon, Medicinal plants, Nativity, Uttarakhand, Wildlife Institute of India

Introduction

The foot hills with wider valleys along the Himalayan range forms an ecotone, is bestowed with a variety of natural resources, which have been exploited by mankind since time immemorial relieving, suffering and curing ailments by trial and error. The history, religion and folklores are full of instances where the magical and curative properties of various plants have been narrated and based on speculations and superstitions the effectiveness of certain plants for different ailment was learnt (Humaun et al. 2006). Plant containing active chemical constituents (alkaloid, glycosides, saponins, essential oils, bitter principles, tannins and mucilages) in any of its part like root, stem, leaves, bark, fruit and seed, which produces a definite curing physiological response in the treatment of various ailments in humans and other animals, is regarded as medicinal plant.

In India, several medical systems have evolved and prominent among these systems are Ayurveda, Siddha and the Unani Systems of Medicine. In different civilizations the contribution of floral biodiversity to health care has been well documented (Posey 1999). Because of the accelerated local, national and international interest in recent years the demand for medicinal and aromatic plants has increased manifolds and pharmaceutical industry views plant wealth as a source of income. Due to easy availability, no side-effects, and sometimes only source of health care, the demand for medicinal plants is increasing in both developing and developed countries.

According to Schippmann *et al.* (2002) more than 50000 species are used for medicinal purposes worldwide, of which almost 13% are flowering plants. Over 8000 plant species are used in traditional and modern medicine in India (Planning Commission 2000), and 90-95% collection of medicinal plants is from the wild, of which more than 70% collection involves destructive and unscientific extraction. Over exploitation of trade species, destructive way of collection, vulnerability due to anthropogenic pressure are some of the major threats to medicinal plants. In order to achieve sustainable harvest of medicinal plants and other non-timber forest products (food (wild edibles), fuel, fodder, timber, making agricultural tools, fiber, religious and various other purposes), a multi-disciplinary approach must be considered which include ecological, biological, socio-cultural and economical aspects of the species (Ghimire et al. 2004).

The World Health Organisation (WHO) estimated that 80% of the populations rely on traditional medicines, mostly plant drugs, for their primary health care needs in developing countries. Conservation and sustainable use of medicinal plants are issues on which immediate focus is required in the context of conserving biodiversity. Considering these facts it is important to know about the medicinal plants of the near by areas and become more crucial when the area is almost in the vicinity of the forest and well protected. Therefore, the present study deals with the status, altitudinal range, nativity, parts used, uses in various ailments and conservation efforts.

Materials and Methods

Study area

The Wildlife Institute of India campus is located in the southern fringe of Dehradun city, a capital of Uttarakhand state. It lies between 77°57'50" to 77°58'45" E long. and 30°16'40" to 30°17'15" N lat. with an altitudinal range from 640-665m asl and covers an area of *ca.*88 hectare (Fig. 1). In general the vegetation of the campus is natural and semi-natural, represented by various successional stages e.g., grassland (*Saccharum* community, *Cynodon* community, *Phragmites* community, *Imperata* community, *Typha* community and mixed

grass community with *Lantana*), scrubland (*Lantana* community and mixed shrub community), riverine forest (*Sapium* community and *Broussonetia papyrifera* community) and woodland of old sal community and coppice sal community. The campus is rich in its floral diversity (total 605 plants, which is almost one third of Doon valley flora. Among faunal diversity of the campus, 16 mammal species (half of them very occasionally), 295 species of birds (including migratory birds), 73 species of butterflies, 16 species of moths, 17 species of spiders, 21 species of reptiles and 11 species of amphibians have been recorded.

Climate, Geology and Soil

The topography of the campus is dendritic type, small channels drain in to Asan river, a tributary to river Yamuna, flows on the northern periphery of the campus. The temperature in summer is so intense and in winter drops down to freezing point due to heavy snow fall in the adjacent hilly regions. The campus receives an average annual rainfall of 1200-1300mm, of which 75% accounted during rainy season only (WII Meteorological station). The study area falls under tectonic group belongs to lower and upper tertiary rocks and sedimentary river deposits of the Shivalik system comprises sand stone, silt, clay and conglomerates (Wadia 1967). The soil is alluvial and highly fertile.

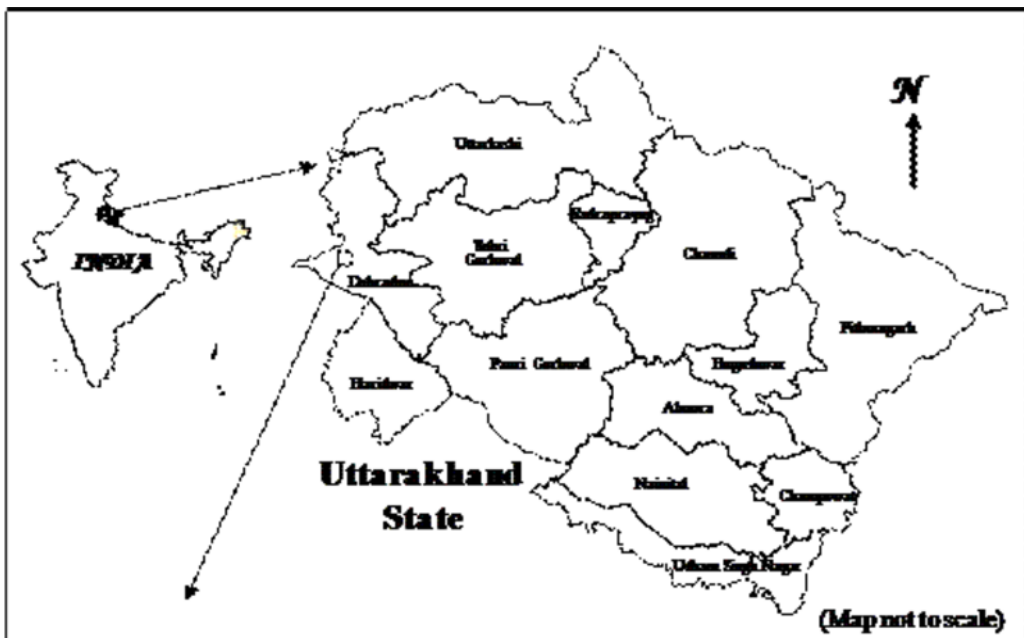


Fig. 1. Locations of Wildlife Institute of India campus, Uttarakhand, India.

Methods

An extensive literature survey includes several florulas, such as Anonymous (1948-1976), Balodi (1988), Lal and Dube (1984), Duthei (1903-29), Gaur et al. (1983), Gaur (1999), Goel and Bhattacharya (1981), Gupta (1962, 1968, 1981), Hooker (1887-1897), Jain (1968, 1991), Kanjilal (1928), Maheshwari and Singh (1984), Nathani (1984), Nautiyal (1981), Osmaston (1926), Purohit and Dhar (1997), Purohit *et al.* (1985), Raizada and Saxena (1978), Rajwar (1983), Rawat and Pangtey (1987), Samant et al. (1998), Singh and Prakash (2002), Singh et al. (1980), Sharma *et al.* (1979) and Uniyal *et al.* (2002) was carried out for Wildlife Institute of India, Dehradun on medicinal plants, their use, distribution along an altitudinal gradient, parts used and uses for different ailments. Bennet (1987) was used for name changes and Anonymous (1883-1970) for the nativity of the plants.

Results

Status of medicinal plants

The Wildlife Institute of India harbours 605 plants (94% wild and 6% palnted), of which 13% were trees, 12% shrubs, 48% herbs, 10% climbers, 15% grasses/sedges and 2% ferns. The WII campus herbaceous flora accounted 48% of the total wild herbaceous flora of Dehradun (Babu 1977). Of the total wild plants in WII campus, 62% (376 plants, Appendix I) are used for medicinal purposes, of which 16% were trees, 14% shrubs, 50% herbs, 11% climbers, 8% grasses/sedges and 2% ferns (Fig. 2). In each taxa most of the plants are used for medicinal purposes (79% trees, 71% shrubs, 64% herbs, 67% climbers, 32% grasses/sedges and 55% ferns of the total). The total families in the campus and medicinal plants' families and genera across the taxa is shown in Fig. 2.

Distribution of family

Most of the families (73) were represented by single species (Monospecific family). However, the families represented the maximum number of medicinal plants are in the following order: Fabaceae (37) > Asteraceae (27) > Poaceae (24) > Euphorbiaceae and Lamiaceae (15 in each), Malvaceae (10), Acanthaceae (9), Apocynaceae, Caesalpiniaceae and Verbenaceae (8 in each) and Cucurbitaceae and Solanaceae (7 in each). Across different taxa Euphorbiaceae (7), Moraceae (6) and Caesalpiniaceae (4) were the dominant families in trees, Verbenaceae (8), Apocynaceae and Fabaceae (4 in each) in shrubs, Asteraceae (25), Fabaceae (21), Lamiaceae (13) and Convolvulaceae (10) in herbs, Fabaceae (9), Cucurbitaceae (5), Asclepiadaceae and Dioscoreaceae (4 in each) in climbers, Poaceae (24) in grass/sedge and Adiantaceae (2) in fern.

Nativity

The nativity of plants for all the taxa showed that the plants from other regions of the world are higher followed by plants from Indian origin (Appendix I). The contribution of trees, shrubs, herbs and climbers from the Himalayan region was 6%, 12%, 3% and 12%, respectively.

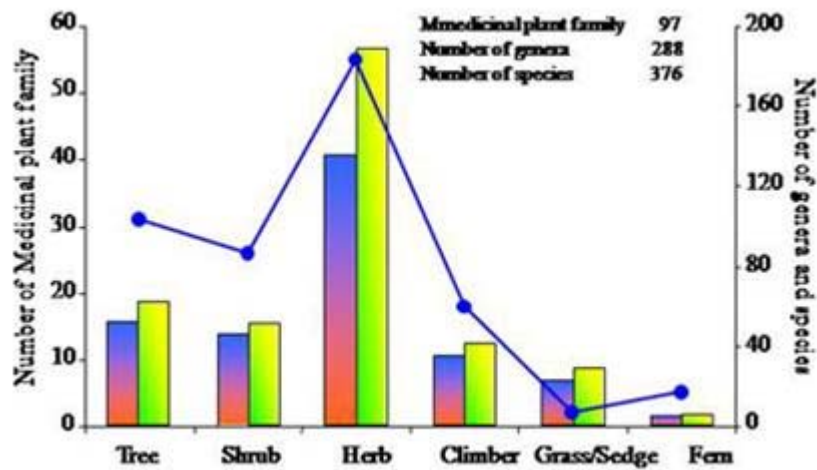


Fig. 2. Total medicinal plant family, genera and species in different taxa.

Distribution along altitudinal gradient

The distribution pattern of all the species in different taxa showed that all species found in sub-tropical region (up to 1500m). Thirteen species, of the total medicinal tree species had distribution up to warm temperate region, of which *Pyrus pashia* had the distribution up to cool temperate region. Of the total 52 medicinal shrubs, only 17 species had the distribution up to warm temperate region. Nine species of medicinal grasses and sedges and 2 species of ferns had the distribution up to warm temperate region. Among 187 medicinal herbs 2 species had the distribution up to alpine region, 5 species up to sub-alpine region, 19 species up to cool temperate region and 81 species up to warm temperate region. *Rubia cordifolia* is the only climber which had the distribution up to cool temperate region, while 9 climbers had the distribution up to warm temperate region.

Plant part used

The plant part used for various ailments is shown in Fig. 3. The bark of maximum number of trees (39 species) is used followed by fruits (31 species) and leaves (27 species) for various ailments. Leaves of maximum number of shrubs (35 species) are used followed by roots (28 species) and fruits (18 species) for various ailments. Ninety one species of herbaceous plants are entirely used followed by leaves (84 species), roots (58 species) and seeds (29 species). Roots of maximum climbers (19 species) are used followed by leaves (18 species). The grasses and sedges are used as whole plant and roots (each 13 species). The leaves and roots (each 2 species) and whole plant (3 species) of ferns are used.

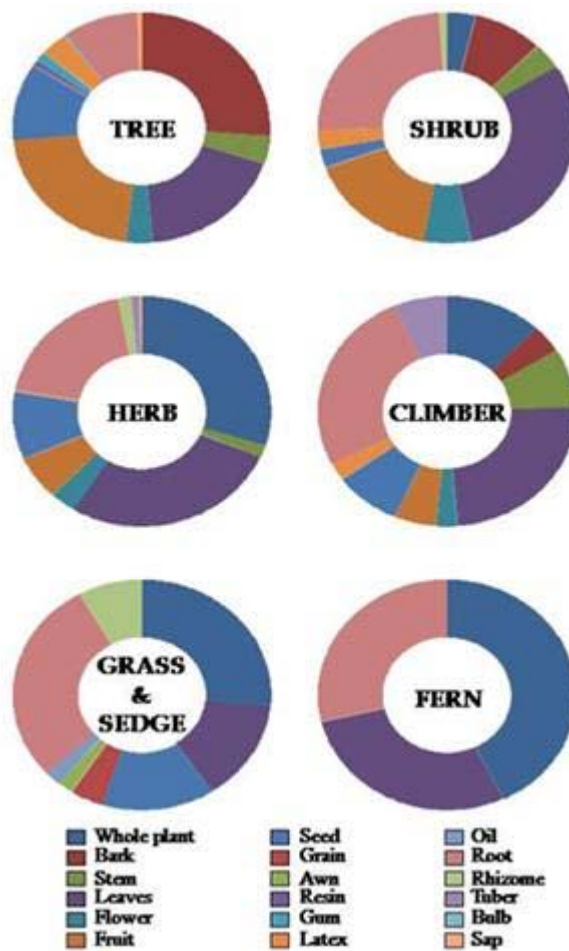


Fig. 3. Plant parts used for medicinal purposes across different taxa.

Use in ailments

The maximum number of tree species used for diarrhoea/dysentary (23%) followed by stomachache (10%) and asthma (9%; Fig. 4). The maximum number of shrubs used for cough and cold (15%) followed by diarrhoea/dysentary (13%) and skin diseases (11%). Most of the herb species used for diarrhoea/dysentary (14%) followed by fever (12%) and wounds (11%). Among climbers, maximum number of species used for diarrhoea/dysentary (14%) followed by fever (12%) and awounds (11%), while grasses and sedges mainly used for fever (17%) followed by asthma (13%) and diarrhoea/dysentary (12%). The ferns used mainly in skin diseases (24%) followed by cough and cold (18%) and fever (12%, Fig. 4).

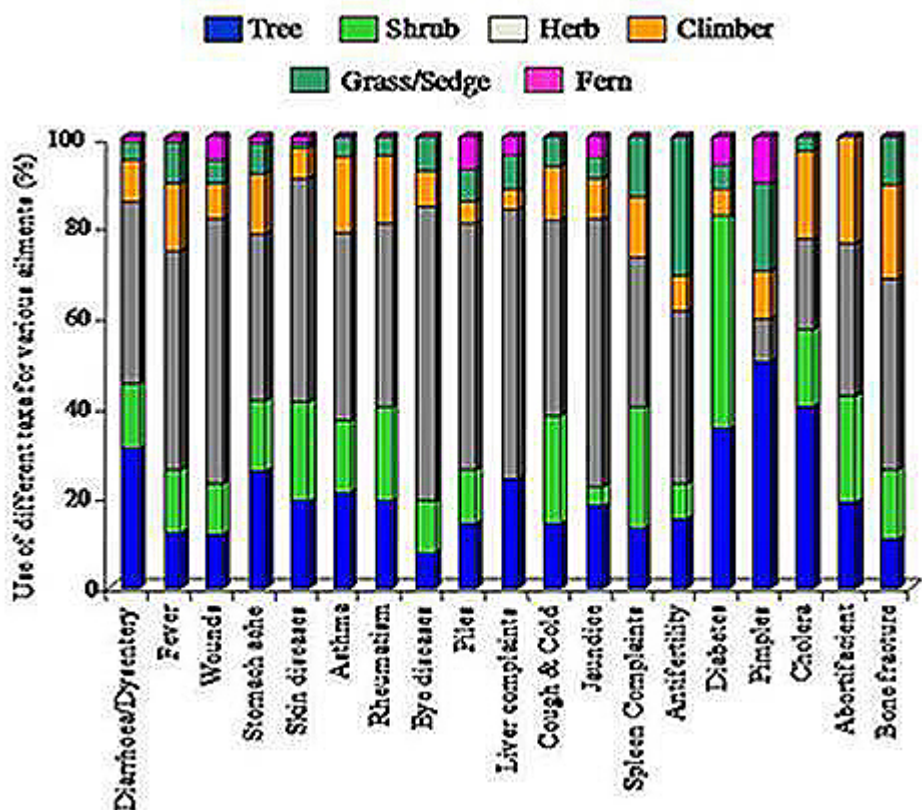


Fig. 4. Use of different taxa for various ailments.

Conservation efforts

Ecological monitoring is one of the essential strategy required for the conservation of biodiversity component required for the conservation of biodiversity as it not only provides baseline data, but also enable to track the changes due to climatic factors over a period of time by considering the reasons responsible for that and the probable consequences. Several changes in different landform units or habitats have been observed in the campus since long (>15 years) due to change in local climate of the region. The seasonal effects and manipulation of water course have changed habitats drastically, such as the long-term directional changes i.e. succession and nutrient cycling. A total of 22 species (6 trees, 5 shrubs, 10 herbs and 1 climber) have been identified for future monitoring, which are important from conservation point of view (Table 2). By recognizing the status of various species growing in the campus, in-situ conservation will be helpful in similar lines as Task Force on MAPs recognizes Medicinal Plant Conservation Areas (MPCA) and the campus will act as gene pool.

Table 2: Important medicinal plants for monitoring in WII campus.

Species	Habit	Status
<i>Achyranthes aspera</i>	Herb	Common
<i>Adhatoda zeylanica</i>	Shrub	Rare
<i>Asparagus adscendens</i>	Herb	Occasional
<i>Azadirachta indica</i>	Tree	Rare
<i>Bacopa monnieri</i>	Herb	Rare
<i>Boerhavia diffusa</i>	Shrub	Rare
<i>Calotropis procera</i>	Shrub	Rare
<i>Centella asiatica</i>	Herb	Common

<i>Eclipta prostrata</i>	Herb	Common
<i>Embllica officinalis</i>	Tree	Rare
<i>Melia azedarach</i>	Tree	Rare
<i>Mucuna nigricans</i>	Climber	Rare
<i>Peristrophe paniculata</i>	Herb	Occassional
<i>Phyllanthus urinaria</i>	Herb	Common
<i>Plumbago zeylanica</i>	Herb	Rare
<i>Rauwolfia serpentina</i>	Herb	Occassional
<i>Ricinus communis</i>	Shrub	Rare
<i>Solanum nigrum</i>	Shrub	Common
<i>Syzygium cumini</i>	Tree	Common
<i>Terminalia bellirica</i>	Tree	Rare
<i>Terminalia chebula</i>	Tree	Occassional
<i>Tridax procumbens</i>	Herb	Common

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Appendix I. Medicinal and aromatic plant species of Wildlife Institute of India campus, Dehradun, Uttarakhand.

<i>Species</i>	Local name	Family	Nativity	Altitudinal range (m)	Parts used	Uses
CLIMBERS						
<i>Ichnocarpus frutescens</i> (L.) Br.	Kali-dudhi	Apocynaceae	Zeylan	300-1500	Rt, Lv, Wp	Rheumatism, blood purifier, asthma, cough, bronchitis, bone fracture, cholera, constipation, dysentery, fever, night blindness, measles, ulcer, vomiting tonic, febrifuge, leucoderma
<i>Vallisneria spiralis</i> (L.) L.	Safed-bel	Apocynaceae	Ind or. Burma	300-1600	La, St	Sores, syphilis, abortifacient, wounds
<i>Calamus tenuis</i> Roxb.	Bent	Areaceae	Reg. Himal. Burma	250-800	Fr, Fl	Leucorrhoea, amenorrhoea
<i>Cryptolepis buchananii</i> Roem. and Schult.	Dudhi-bel, Meda-Singhi	Asclepiadaceae	Ind or.	300-1500	Rt, La, Wp	Fissure on sole, fever, rheumatism, dysentery, dropsy, cuts, cholera, abdominal pain, body ache, stomach ache, syphilis, stop bleeding
<i>Marsdenia tenacissima</i> Moon	Marua-bel, Jiti	Asclepiadaceae	Ind r. Malaya	300-1000	Rt	Stomach ache, urinary complaint, cough, fever, asthma
<i>Telosma pallida</i> Craib.	Surkillia	Asclepiadaceae	Ind. or.; China	400-1500	Lv, Wp	Cough
<i>Tylophora hirsuta</i> Wt.	Terni	Asclepiadaceae	Reg. Himal.	400-1400	Lv, Rt	Bronchitis, cold and cough, abortifacient, hydrophobia
<i>Celastrus paniculatus</i> Willd.	Kaunya, Malkagni	Celastraceae	As Trop Malaya	400-1200	Sd	Mental disorders and ophthalmic anaemia, abortifacient, backache, gout, headache, paralysis, stomachache, wounds, swollen veins, rheumatism, leprosy, diarrhoea, bone fracture, bronchitis, cough, body ache, eczema, fever, digestive complaints
<i>Rivea hypocrateriformis</i> Choisy	Parhar, Safed Hulhul	Convolvulaceae	Geront Trop	300-1500	Lv, Rt, Wp	Head ache, rubefacient, vesicular neuralgia, rheumatism, anthelmintic, gum troubles, sexual weakness, fever, injuries, piles, asthma, bronchitis, head ache, postnatal spleen problem, dysentery, diphtheria
<i>Momordica dioica</i> Roxb. ex Willd.	Jangli-Karela	Cucurbitaceae	Ind Or.	500-1100	Rt	Malaria, fever, jaundice, pruritus, stomach problem
<i>Mukia maderaspatana</i> Roem	Ban Kakhri, Gulya Kakri	Cucurbitaceae	As. et.; Afr. trop.	500-1000	Sd, Rt	Asthma, bronchitis, diabetes, emetic, hoarseness and mouth disease in cattle, burns, diarrhoea, pulmonary diseases
<i>Trichosanthes cucumerina</i> L.	Jangli-chchinda	Cucurbitaceae	As. et.; Austr. trop.	500-1300	Rt, Fr	Malaria, fever, jaundice, pruritus, stomach problem
<i>Trichosanthes tricuspidata</i> Lour.	Indrian, Lal Indrayan	Cucurbitaceae	Cochinchin.	400-1500	Lv, Rt, Fr	Asthma, bronchitis, diabetes, emetic, hoarseness and mouth disease in cattle, burns, diarrhoea, pulmonary diseases
<i>Zehneria scabra</i> (L.f.) Sond	Bankundri	Cucurbitaceae	Am. bor; Ind. occ.	300-1500	Rt	Malaria, fever, jaundice, pruritus, stomach problem
<i>Dioscorea belophylla</i> Voigt.	Tairu, Turar, Tarur	Dioscoreaceae	Himal.	400-1500	Tu	Medicinal, edible
<i>Dioscorea bulbifera</i> L.	Genthi, Ratalu	Dioscoreaceae	As Trop	300-2100	Tu	Dysentery, abdominal pain, jaundice, boils, piles
<i>Dioscorea hispida</i> Dennst.	Kuliapapad	Dioscoreaceae	Ind Or.	300-1000	Tu	Boils, rabies
<i>Dioscorea pentaphylla</i> L.	Kou, Phal-alu, Kanta-alu	Dioscoreaceae	As Trop	300-1500	Tu	Rheumatism, asthma, bone fracture, cough, bile complaints, anasarca, dropsy, abdominal pain after delivery
<i>Abrus pulchellus</i> Wall. ex Thw.	Gaunchi	Fabaceae	Ind. or: Afr. austr.	400-1200	Sd	Stops conception

<i>Atylosia scarabaeoides</i> (L.) Benth.	Bandal	Fabaceae	Austr	300-1500	Lv, Wp	Dysentery, cholera, dropsy, gonorrhoea, night fever, wound syphilis, venereal diseases, female sterility, child birth, post natal treatment, swelling, anasarca, blood spermatorrhoea, baldness, small-pox, sores, leg pain
<i>Butea parviflora</i> Roxb.		Fabaceae	Ind Or Burma	400-1000	St, Bk, Rt	Cholera, diarrhoea, dysentery, madness, mucus in urine, rheumatic pain in ribs, stomach ache tooth ache, venereal disease
<i>Milletia extensa</i> (Benth.) Baker.	Gauju, Gonj	Fabaceae	Burma	300-1000	Wp	Spleen diseases, toothache, fever and sores
<i>Mucuna nigricans</i> (Lour.) Steud.	Bhaisalu, Gaunchhi	Fabaceae	Cochinchin.	500-1200	Sd	Cholera, throat pain, fever
<i>Puereria phaseoloides</i> (Roxb.) Benth.	Sli-niangtythe	Fabaceae	Ind Or. Malaya China	800-1200	Lv	Tooth ache
<i>Puereria tuberosa</i> (Willd.) DC.	Siralu, Saral	Fabaceae	Reg. Himal.	400-1500	Tu	Asthma and abdominal pain, body ache, chest pain, cholera, swell ulcer
<i>Rhynchosia minima</i> DC.		Fabaceae	Reg. Himal.	400-1200	Lv	Abortifacient
<i>Vigna vexillata</i> Benth.	Halunda	Fabaceae	Geront. trop.	300-800	Rt, Wp	Rheumatism, ulcer, cholera, weakness
<i>Hiptage benghalensis</i> (L.) Kurz.	Aita-lagula, Madhavi	Malpighiaceae	Burma	300-1000	Lv	Skin diseases
<i>Cissampelos parriera</i> L.	Pahre, Parha	Menispermaceae	Reg Trop	600-2000	Lv, Rt	Antidote to snake and scorpion constipation, gastric trouble, cardiac and urinary troubles, abdominal diseases, colic pain, diphtheria
<i>Cocculus hirsutus</i> (L.) Diels	Jaljamni, Chhirentha	Menispermaceae	Ind Or. Afr Trop	500-2000	Lv	Body swelling, wounds and joint pain
<i>Tinospora sinensis</i> (Lour.) Me	Gilao, Giloei	Menispermaceae	Ind Or. Malaya	600-1600	St, Lv	Urinary troubles, general debility
<i>Jasminum multiflorum</i> (Burma.f.) Aners	Chameli	Oleaceae	As Trop	250-2500	Lv	malaria, emetic, leprosy, fever Pimples and eczema
<i>Passiflora edulis</i> Sims.	Passion fruit	Passifloraceae	Brass	400-1500	Lv, Rt	Stomach ache, sores
<i>Passiflora foetida</i> L.	Gharibel, Gudsar	Passifloraceae	Brass	400-1000	Sd, Lv, Fr, Wp	Tonic, debility, headache, inflammation, wounds, itching, asthma, cold and cough
<i>Clematis gouriana</i> Roxb.	Kanguli, Belkum, Santi	Ranunculaceae	Ind Or. Malaya	500-2000	Lv, St	Eye diseases, skin diseases, blisters
<i>Gouania tiliaefolia</i> Lam.	Rangchero, Kangorkur	Rhamnaceae	Ins. mascar	300-1000	Lv	Diarrhoea and spasmodic pain, dandruff
<i>Ventilago denticulata</i> Willd.	Kali-beli, Keonti, Raidhani	Rhamnaceae	Ind Or	300-800	Rt, Fl, Wp, Bk, St.	Fever, night blindness, colic, earache, retention urine and faeces, headache, rheumatism, spermatorrhoea, dysuria, eye diseases, abortifacient
<i>Rubia cordifolia</i> L.	Kasoos	Rubiaceae	As Trop Temp Afr Trop	400-2700	Rt, St	syphilis, ulcer, stomachache, Blood clotting agent, menorrhagia
<i>Cardiospermum halicacabum</i> L.	Kanphuti, Kakadni	Sapindaceae	Reg. Trop.	400-1500	Rt, Lv, Sd	Suppressed menstruation, indigestion and fever
<i>Smilax wightii</i> DC.	Bhitura, Chhob-chini	Smilacaceae	Ind Or. Malaya	300-1500	Rt	Dysentery, amoebiasis, venereal diseases, leucorrhoea, urinary complaints, fever, spermatorrhoea, antifertility, anaemia, rheumatic arthritis, veterinary amoebiasis
<i>Ampelocissus latifolia</i> (Vahl) Planch.	Bhimna, Bhinura, Bhiranya	Vitaceae	Ind Or.	300-1700	Rt, Bk,	gastric complaints Inflammatory, dysentery, fever, bone fracture, pain in stomach, pneumonia, skin diseases, wounds

FERNS

<i>Adiantum caudatum</i> L.	Mayurshikha	Adiantaceae	Africa et Asia tropica. Ins. N. Hebridae.	400-1800	Wp	Skin diseases, asthma, fever, cough, bronchitis, burning sensation inside body
<i>Adiantum incisum</i> Forsk.		Adiantaceae	Mexico-Ecuador. Galapagos.	300-1800	Wp	Skin diseases, diabetes, colic
<i>Dryopteris cochleata</i> (Don.)Chr.	Hathajodi	Dryopteridaceae		300-2000	Rh, Fronds	Cholera
<i>Equisetum ramosissimum</i> Desf.	Dambro	Equisetaceae		300-1300	Wp	Swelling
<i>Lygodium flexuosum</i> (L.) Sw.	Kukri-bisi, Maha-Jal	Lygodiaceae		300-1200	Rt	Cough, abdominal pain, abortifacient, cholera, antifertility, constipation, rheumatism, eczema, jaundice, fever, stomachache
<i>Cheilanthes farinosa</i> (Forst.)Kaulf.	Sonapali	Sinopteridaceae		300-1200	Rt, Fronds	Eczema, menstrual disorder, stomach ache
GRASSES						
<i>Apluda mutica</i> L.	Tachula, Ponai	Poaceae	As Trop Polynes Austr	300-2500	Wp	Veterinary mouth sores
<i>Coix lacryma-jobi</i> L.	Sankuru, Jargadi	Poaceae	As Trop	300-2100	Sd, Wp	Tonic, diarrhoea, fever, dysentery, thirst
<i>Cymbopogon martinii</i> (Roxb.) Wats.	Piriya-ghas, Rohis, Rohsa	Poaceae	Reg Trop	300-1400	Lv, oil	Skin disease, cold, rheumatism, biliousness
<i>Cynodon dactylon</i> (L.) Pers.	Dubla, Doob	Poaceae	Cosmop.	250-1800	Rt, Lv, Wp	Fever, internal injury, dysentery, dropsy, cramps, piles, bleeding piles, urinary complaints, menstrual disorders, headache, refractory antifertility, carbuncle, wound, stomach ulcer, sores, stops bleeding, Bleeding from nose, Stomachache
<i>Dactyloctenium aegypticum</i> (L.) Beauv.	Makra-ghas	Poaceae	Cosmop Trop et Sub Trop Madag	300-1000	Sd	
<i>Desmostachya bipinnata</i> (L.) Stapf.		Poaceae		300-800	Wp	Dysentery
<i>Eleusine indica</i> (L.) Gaertn.	Jharnpriya-kodu, Mandla	Poaceae	Cosmop Trop et Sub Trop	300-1500	Wp	Fever
<i>Hemarthria compressa</i> (L.f.) Br.	Biksa	Poaceae	Reg Trop	400-1000	Wp	Dyspepsia
<i>Heteropogon contortus</i> (L.) Beauv.	Kumrya ghas, Kher	Poaceae	Reg Trop	300-1500	Sd, Wp, Rt, Awn	Piles, Scorpion sting, rabbi, dysentery, fever, muscular pain, toothache, atrophy, emaciation, asthma
<i>Imperata cylindrica</i> (L.) Beauv.	Sauraun, Siru	Poaceae	Reg Calid	300-2000	Rt, Rh	Piles, fever, intestinal parasites, spleen and liver complaints, tonic, wounds, fermenting rice beer
<i>Lolium temulentum</i> L.	Mochni	Poaceae	Europe As Temp	400-2400	Wp	Veterinary convulsion, paralysis due to fungus infection, fodder
<i>Oryza sativa</i> L.	Dhan, Saatti	Poaceae	Ind Or.	300-1200	Fl, Grain	Antifertility, local drink, ed
<i>Paspalum scorbiculatum</i> L.	Paplya, Kodra	Poaceae	Geront Trop	300-2200	Rt, Grain	Painful urination, eye disease, Cold and cough, sores, carbuncle
<i>Phragmites karka</i> Trin. ex Steud.	Narkat	Poaceae	As.; Afr; Austr.	250-800	Lv	Paralysis

<i>Saccharum spontaneum</i> L.	Munj, Kansh	Poaceae	Geront Trop	300-1800	Lv, Wp	Burns, cholera, urinary complaints, cough, asthma
<i>Setaria verticillata</i> Beauv.	Latkaunya, Laptuna	Poaceae	Cosmop.	250-1200	Sd	Constipation, local drink
<i>Sorghum halepense</i> (L.) Pers.	Chinna, Bharu	Poaceae	Reg Calid	300-1500	Sd, Wp, Lv	Stomach disorders, fever, antidote to snake poison, lo drink
<i>Sporobolus diander</i> Beauv	Sitya	Poaceae	As. et Austr. trop	300-1500	Lv	Burns and pimples
<i>Themeda arundinacea</i> Ridley	Kulpura, Kapur-khas	Poaceae	Penins.;	300-900	Rt	Fever
<i>Themeda gigantea</i> Hack.		Poaceae	Ins Philip	300-1400	Wp	Spleen complaints, stomachache, sores, impota gonorrhoea, cholera, broncl oedema, asthma, anasarca, spermatorrhoea
<i>Thysanolaena maxima</i> Ktze.	Naktura, Nastura	Poaceae	As Trop	400-2000	Fl, Rt, Sd	Abortifacient, eye complair asthma, bronchitis, antiferti child birth, pulmonary tuberculosis
<i>Vetiveria zizanioides</i> (L.) Nash	Khas, Veeran-mool	Poaceae	As Trop	300-1600	Rt, Wp	Anthelmintic, fever, epileps boils, burns, mouth sores, toothache, malaria, scorpio sting, snakebite
<i>Dendrocalamus strictus</i> Nees		Poaceae	Cosmop Trop et Sub Trop	300-1500	Rt, Lv, Rh, Sd	Infertility, cough, fever, injuries, tonic
SEDGES						
<i>Cyperus iria</i> L.	Agarmotha	Cyperaceae	Geront Trop	250-1500	Rt	Rheumatism
<i>Cyperus kyllingia</i> Endl.		Cyperaceae	Amphig Trop	400-1200	Rt	Tumor
<i>Cyperus pangorei</i> Rottb.		Cyperaceae	Geront Trop	600-1200	Rt	Atrophy, antidote to snake poison
<i>Cyperus rotundus</i> L.	Motha	Cyperaceae	Geront Trop	300-1500	Wp, Rt, Bb.	Astringent, diaphoretic, diuretic, jaundice, wounds, sores, urinary complaints, stomach disorders, dysentei bowel complaints, masticat heat stroke, snake bite
<i>Cyperus triceps</i> Endl.		Cyperaceae	Geront. trop.	300-1000	Rt	Liver complaints
HERBS						
<i>Barleria cristata</i> L.	Saundi, Kala-bansa	Acanthaceae	Ind Or. Burma	250-1500	Wp, Rt, Lv	Bronchitis, swelling on legs toothache, bodyache, anaen pneumonia, wounds, antido snake poison
<i>Dicliptera bupleuroides</i> Nees	Kulartore, Kuthhi	Acanthaceae	Ind Or.	500-2000	Lv, Wp	Cough, gastroenteritis, chec bleeding from wounds
<i>Hygrophila auriculata</i> (Schum.) Heine	Talimkhana	Acanthaceae	Ind Or.	250-600	Rt, Lv	Aphrodisiac, cancer, drops; bodypain, jaundice, malaria tonic, tuberculosis, fistula, impotence, urenogenital complaints, liver complaint
<i>Hygrophila polysperma</i> (Roxb.)T.Anders	Minjonja	Acanthaceae	Ind Or.; Malaya	300-1000	Wp	Headache
<i>Lepidagathis incurva</i> Don		Acanthaceae	As Trop	400-1200	Fr	Ear complaints
<i>Nelsonia canescens</i> (Lam.) Spr.	Daledirdu, Panj-ki jadi	Acanthaceae	Amphig Trop	300-900	Rt, Fr, Lv	Wounds, diarrhoea, syphili gastric problems, blister, bc on tongue
<i>Perilepta auriculata</i> Bremek.	Pandai	Acanthaceae	Ind Or.; Burma	400-800	Lv	Febrifuge

<i>Peristrophe paniculata</i> <i>Burm</i>	Kaknadi, Chirchiri	Acanthaceae	Ind Or.	250-1400	Wp, Rt, Fr, Lv	Wounds, gout, rheumatism, diseases, bone fracture, spr
<i>Rungia pectinata</i> (L.) Nees	Dabari, Hasa-arak	Acanthaceae	Ind Or. Burma	250-1200	Wp	Small pox
<i>Agave americana</i> L.	Ram-bans	Agavaceae	As Trop	300-1800	Lv	Paultice, fish poison
<i>Trianthema</i> <i>portulacastrum</i> L.	Santhi, Swet-punarnava	Aizoaceae	Am. trop.	600-1000	Rt	Asthma, amenorrhoea, liver troubles, jaundice
<i>Achyranthes aspera</i> L.	Latjiri, Lich-kuri	Amaranthaceae	Geront. trop.	500-2200	Wp	Malarial fever, dropsy, chil birth, bleeding, cold, colic, cough, dysentery, headache, complaints, hydrophobia, b insect bite
<i>Aerva sanguinolenta</i> (L.) Bl.	Sufedphulia	Amaranthaceae	Java	500-1500	Wp	Diuretic and demulcent
<i>Alternanthera ficoidea</i> (L.)R.Br. ex Roem.andSchultz.		Amaranthaceae	Geront. trop	200-1000	Wp	Urinary complaints, abortifacient
<i>Alternanthera pungens</i> H.B.K.	Bharatiya kanti	Amaranthaceae	Bras.	250-1500	Lv	Tonic
<i>Alternanthera sessilis</i> (L.) R.br ex DC.	Gaitewar	Amaranthaceae	Reg. trop	200-1500	Lv	Puerperal fever, malarial fe night blindness, post natal treatment, rheumatism, bone fracture, eye complaints, diarrhoea, dysentery, bee repellent
<i>Amaranthus spinosus</i> L.	Kantelu-marsu	Amaranthaceae	Reg Trop	500-1200	Wp	Dismenorrhoea, antiemetic, blood purifier, cough, cold, eczema, Gonorrhoea
<i>Amaranthus viridis</i> L.	Jangli-chaulai	Amaranthaceae	Reg Trop	500-1200	Wp	Vermifuge, centipede bite, Scorpion bite
<i>Celosia argentic</i> L.	Gadrya	Amaranthaceae	Cosmop Trop	500-1000	Sd, Lv	Blood purifier, bleeding dysentery, Diarrhoea, Sore mouth, Purgative
<i>Centella asiatica</i> (L.) Urban	Brahmi-buti	Apiaceae	Reg Trop et Sub Trop	300-2500	Wp	Blood purifier, tonic, diuret leprosy, syphilis, wounds, mental disorders, cooling, t nourisher, improves memor
<i>Arisaema tortuosum</i> (Wall.) Schott	Bag-Mungri	Araceae	Reg. Himal.	500-1500	Tu	Veterinary diseases, edible
<i>Sauromatum venosum</i> (Ait.) Kunth	Bhasm-kant	Araceae	Ind Bor Occ	500-2500	Tu	Skin disease, sores, tumors, poultice
<i>Scindapsus officinalis</i> (Roxb.) Schott.	Gaj-peepal, Hathkaul	Araceae	Aethiopia	250-800	Fr, Wp. Rt	Cancer, cholera, bone fract scabies, pneumonia, stomachache, syphilis, tuberculosis, asthma, bronci stimulant, aphrodisiac
<i>Asclepias curassavica</i> L.	Lamla, Kakatundi	Asclepiadaceae	Amer Austr	300-2000	La, Rt	Gonorrhoea, ulcer, wounds anthelmintic, abdominal pai piles, flowers used in psychomedicine
<i>Acanthospermum</i> <i>hispidum</i> DC.	Gokhru, Gondhichedi	Asteraceae	Bras.	300-1500	Wp	Skin diseases and fever
<i>Ageratum conyzoides</i> L.	Gundrya, Gandhela	Asteraceae	Reg Trop	300-1500	Fl, Sd	Skin ailments, cuts, sores, kidney stone, cancer, boils diarrhoea, head ache, colic, leprosy, muscular pain, sca sores, swell body, uterine disorders, snake bite
<i>Ageratum</i> <i>houstonianum</i> Mill.	Neelum	Asteraceae	Mexic	300-1200	Wp	Tonic, diarrhoea
<i>Bidens pilosa</i> L.	Kumur, Kumra	Asteraceae	Ind. occ. Am.; Austr.	300-1500	Wp	Cough, bronchitis, leucoder

<i>Blumea lacera</i> (Burm.f.) DC.	Kakranda	Asteraceae	Ind Or. Malaya Ins Mascar	400-1000	Lv, Wp	Vermifuge, piles, cuts and wounds, burns, urinary complaints, bronchitis and f
<i>Caesulia axillaris</i> Roxb.	Bhelwandi	Asteraceae	Ind Or.	300-600	Lv, Wp	Goitre, baldness, stomach complaints
<i>Centipeda minima</i> (L.) Br. and Asch.	Nakh-Chhikni	Asteraceae	As et Austr Trop Ins Pacif	300-800	Lv, Wp	Headache, promote sneezin epilepsy, hydrocele, influer
<i>Cirsium wallichii</i> DC.	Kandeiya, Kandra	Asteraceae	Reg. Himal.	300-3000	Lv, Rt	Hepatic and spleen trouble, diseases, scorpion stings, c pain, dysentery, thirst
<i>Eclipta prostrata</i> (L.) L.	Bhangri, Bhangru, Bringraj	Asteraceae	Cosmop Trop	200-1500	Wp	Liver complaints, asthma, fi constipation, bronchitis, thr pain, conjunctivitis, antisepti jaundice, itching, gastric complaints, promote hair growth, scorpion sting, mal toothache, wounds, swellin used in the preparation of bringraj thel
<i>Elephantopus scaber</i> L.	Adhomukha	Asteraceae	Cosmop Trop	300-1500	Wp	Intermittant fever, headache, heart diseases, liver compl pimples, rheumatism, swell dysentery, cough, dropsy, facilitate child birth, syphil vomiting, urinary
<i>Emilia sonchifolia</i> (L.) DC.	Hirankuri, Dudhi	Asteraceae	Afr Trop	250-2000	Wp	Febrifuge, Diarrhoea, night blindness, cataract, bruises cooling, inflammatory, wound eye diseases, boils, earache
<i>Enhydra fluctuans</i> Lour.	Hingcha	Asteraceae	Cochinchin.	300-1800	Wp	Dropsy, blood pressure, sna bite, anasarca
<i>Eupatorium adenophorum</i> Sprengl.	Kharna, Bakura	Asteraceae	Jamaic.; Mexic.	250-2000	Lv	Antiseptic, wounds, stomachache, toothache, cut haemostat
<i>Galinsoga parviflora</i> Cav.	Marchya	Asteraceae	Amer Austr	600-2000	Lv	Antidote to nettle sting, stop bleeding, snake bite
<i>Gnaphalium polycaulon</i> Per.	Pondpadro	Asteraceae	Geront Trop	300-800	Wp	Gastric complaints
<i>Parthenium hysterophorus</i> L.	Gajar ghas, Jhilmi	Asteraceae	Amer Bor et Austr	250-1500	Rt, Fl	Nasal block in cold
<i>Saussurea heteromalla</i> (D.Don) Hand.-Maz.	Murang	Asteraceae	Reg. Himal.	500-2000	Lv, Rt	Leucoderma, carminative, fever, colic
<i>Senecio nudicaulis</i> Buch.-Ham. ex D.Don	Neelkanthi, Ratpati	Asteraceae	Reg. Himal.	400-900	Rt, Lv	Fever, colic, skin diseases
<i>Siegesbeckia orientalis</i> L.	Liskura, Gobariya	Asteraceae	Cosmop Trop	250-2000	Wp	Diarrhoea, bowel complaint boils, ulcer, wounds, sores, diseases, heart diseases
<i>Sonchus asper</i> (L.) Hill.	Pili-dudhi	Asteraceae	Cosmop.	300-3000	Wp, Lv	Cuts, blood purifier, wound tonic
<i>Tridax procumbens</i> L.	Kumra, Kanphuli	Asteraceae	Amer Trop	250-1500	Wp, Lv	Antiseptic, cuts and wounds toothache, stomach pain, ulc sores, stone in urinary blad leprosy, diarrhoea, dysente fever, haemostat, eczema, blisters and boils, eye disea scorpion bite
<i>Vernonia cinerea</i> (L.) Less.	Kalgira, Kaljiri	Asteraceae	Amphig Trop	300-1500	Lv, Wp, Rt	Dysentery, impotence, lacta cholera, constipation, leucorrhoea, malaria, piles, night blindness, skin diseas wounds, spleen complaints, insect bite

<i>Xanthium strumarium</i> L.	Gokhuriya, Bhangra, Kurou	Asteraceae	Cosmop.	250-1800	Fr, Sd, Lv, Rt	Refrifuge, malaria, headach eye diseases, cancer wound piles, rheumatism, scrofula, ringworm, Urinary complai ulcer, toothache,
<i>Youngia japonica</i> (L.) DC.	Rumdum, Rupjup	Asteraceae	As Trop Austr	300-1000	Rt, Wp	Urinary complaints, galactagogue
<i>Cynoglossum lanceolatum</i> Forsk.	Lichkura, Andhahuli	Boraginaceae	Arabia	300-3200	Wp, Rt	Muscular pain, cold and co aphrodisiac
<i>Cynoglossum zeylanicum</i> Thumb. Ex Lehm.	Andhahuli	Boraginaceae	Ind Or. Malaya	400-3000	Lv, Rt	Asthma, bronchitis, vomitin cough and diarrhoea
<i>Trichodesma indicum</i> (L.) Br.	Aundhi, Chhota-Kulpha	Boraginaceae	Ind Or. Afghan Persia	250-1500	Rt, Fr, Lv	Stomachache, vermifuge, wounds, sores, boils, eczen pyrrohea swellings on joint brain tonic
<i>Capsella bursa-pastoris</i> (L.) Medik.	Tuntkya, Botlya	Brassicaceae	Reg Temp	400-4500	Lv, Rt, Wp	Gonorrhoea, diarrhoea, dro blood pressure, cuts and wounds, urinary troubles
<i>Cardamine scutata</i> Thunb.		Brassicaceae	Japan	450-4000	Wp	Epilepsy, cold and cough
<i>Coronopus didymus</i> (L.) Sm.	Jangli-alai	Brassicaceae	Cosmop.	400-2000	Sd	Headache
<i>Cassia absus</i> L.	Chaaksee, Cheaksu, Banar	Caesalpiniaceae	Cosmop Trop	400-1000	Lv, Sd	Ophthalmic, skin diseases, wounds, eye infection, diarrhoea, cough
<i>Cassia occidentalis</i> L.	Taror, Chakunda, Kasonda	Caesalpiniaceae	Cosmop Trop	400-1400	Lv, Sd, Fl	Eczema, gastric trouble, lactation, ringworm, skin diseases, dysentery, bone fracture, rheum and snake b
<i>Cassia pumila</i> Lam.		Caesalpiniaceae	Cosmop. trop.	400-1800	wp	Galact, piles
<i>Cassia tora</i> L.	Chakunda, Panvar, Chakramarde	Caesalpiniaceae	Cosmop Trop	400-1300	Lv, Rt, Sd, St.	Night blindness, eczema, antseptic, cuts, cold, stomach ache, wounds, scabies, rhemetic, jaundice, skin diseases, bone fracture
<i>Cannabis sativa</i> L.	Bhang	Cannabinaceae	As Centr	600-2800	Lv,Sd	Intoxication, narcotic, bronchitis, convulsion, crar epilepsy, dyspepsia, ear complaint, gonorrhoea, paralysis of tongue, skin disease, laxative, nervine stimulant
<i>Drymaria cordata</i> (L.) Willd. Ex R. and S.	Pithpapra	Caryophyllaceae	Cosmop Trop	500-2000	Wp	Burns, boils, headache, diarrhoea, dysentery, pneumonia, skin diseases, mouth sores, tongue sores, l fever, food poison, insect b asthma
<i>Stellaria media</i> (L.) Vill.		Caryophyllaceae	Reg Bor Temp	300-2700	Wp	Bone fracture
<i>Chenopodium album</i> L.	Bathua, Bathu	Chenopodiaceae	Reg Temp et Trop	500-3000	Lv, Sd	Skin disease, urinary complaints
<i>Chenopodium ambrosioides</i> L.		Chenopodiaceae	Reg Temp et Trop	500-1200	Lv, Sd	Typhoid, anthelum, pneumo vermifuge, piles
<i>Chenopodium murale</i> L.		Chenopodiaceae	Reg Bor et Austr	500-1200	Lv	Asthma
<i>Cleome viscosa</i> L.	Jakhya, Hulhul	Cleomaceae	Geront Trop	400-1800	Sd	Rheumatic, arthritis, otorrh and wounds
<i>Commelina benghalensis</i> L.	Kankaua, Kansura	Commelinaceae	Geront Trop	300-2000	Lv, Rt	Liver complaints, wounds, scorpion bite, sores, fever, laxative, diarrhoea, irritatic catterpillar

<i>Commelina diffusa</i> Burm.f.	Kanshura	Commelinaceae	Reg. trop.	250-600	Rt	Antidote to snake bite
<i>Commelina suffruticosa</i> Bl.		Commelinaceae	Java	300-1500	Wp	Menorrhoea
<i>Murdania nudiflora</i> (L.) Brenan.	Kansura	Commelinaceae	Ind Or.	300-2000	Wp, Rt	Leprosy, stomach complain giddiness, astringent
<i>Convolvulus arvensis</i> L.	Heyranpatu, Rajbala	Convolvulaceae	Geront Trop	250-1500	Rt, Wp	Pergative, burns and bruise detergent
<i>Evolvulus alsinoides</i> (L.) L.	Sankhpuspi	Convolvulaceae	Amphig Trop	300-1500	Wp, Lv	Fever, cough and cold, ston ache, ulcer, dysentery, asth bronchitis and brain tonic
<i>Evolvulus nummularius</i> L.	Cgubuoata, Sukrisure	Convolvulaceae	Amphig. trop.	250-1500	Wp	Wounds, cuts, burns, scorpi sting, hysteria
<i>Ipomoea batatas</i> Poir.	Shakarkand	Convolvulaceae	Reg. trop.	300-1000	Tu	Rich iron
<i>Ipomoea cairica</i> Sweet.	Neeli-bel	Convolvulaceae	Amohig. trop.;	300-1500	Fr, Sd	Pugative, cough and cold
<i>Ipomoea eriocarpa</i> Br.	Kumpan-bel	Convolvulaceae	Geront Trop	300-1500	Lv	Rheumatsm, ulcer, leprosy, wounds headache
<i>Ipomoea muricata</i> Jacq.	Michai	Convolvulaceae	Reg. Himal.;	300-1400	Sd	Fever and constipation
<i>Ipomoea nil</i> (L.) Roth.	Kaludanu, Neelkalmi	Convolvulaceae	Amphig Trop	250-2000	Wp, Sd	Purgative, tonic, fever and constipation
<i>Ipomoea pes-tigridis</i> L.	Ghiabati	Convolvulaceae	Geront Trop	250-1500	Rt,Lv,	Headache, fever, eye diseas antidote to snake bite, laxat
<i>Ipomoea quamoclit</i> L.	Kamalata	Convolvulaceae	Amphig Trop	250-1200	Lv, Wp	Bleeding piles , ulcer and p in breast
<i>Cucumis hardwickii</i> Royle	Elaroo	Cucurbitaceae	Ind Or.	500-1400	Rt, Fr, Sd	Fever, pneumonia, suppress urination
<i>Luffa aegyptiaca</i> Mill.	Ghangra, Ghia	Cucurbitaceae	Geront Trop	300-1800	Fr	Diarrhoea, prickly heat, vet dyspepsia
<i>Cuscuta reflexa</i> Roxb.	Akash-laguli, Amar-bel	Cuscutaceae	Ind Or.	250-2500	Wp, St	Skin diseases, eye diseases bodyache, cuts and wounds diphtheria, headache, itchin oedema, anthelmintic, carminative, cough, fever, indigestion, liver complaint and jaundice, nervine weak
<i>Euphorbia hirta</i> L.	Dudhi	Euphorbiaceae	Amphig Trop	300-2000	Wp	Warts, lactification, bronch infection and asthma
<i>Euphorbia hypericifolia</i> L.	Hazardana	Euphorbiaceae	Amphig Trop	400-1400	Lv	Dysentery, diarrhoea and menorrhagia
<i>Phyllanthus fraternus</i> Webstr.	Bhui-amla	Euphorbiaceae	As. Trop.	300-1000	Wp	Boils, allergy, abortifacient diarrhoea, dysentery, drops genito urinary diseases, gonorrhoea, indigestion, ga problems, jaundice, ulcer, swelling, sores
<i>Phyllanthus urinaria</i> L.	Hazarmani	Euphorbiaceae	Amphig. trop	250-800	Wp	Dropsy, gonorrhoea, sleepnesness, urinogenetic disorder, kidney stone, gallbladder stone, hepatitis, liver complaints
<i>Phyllanthus virgatus</i> Forst.f.	Bhiuavate	Euphorbiaceae	As Trop	300-1800	Lv, Rt, Fr	Stomache ache, gonorrhoea cold, fever, itching, dysente piles
<i>Alysicarpus bupleurifolius</i> (L.) DC.		Fabaceae	Ind Or.	400-1200	Wp	Fever
<i>Alysicarpus vaginalis</i> (L.)DC.	Davai, Sanguie	Fabaceae	Ind Or.	250-1500	Rt, Wp	Antifertility, bone fracture, in joints, expectorant
<i>Crotalaria albida</i> Heyne ex Roth.	Chunchuni, Ban-Methi	Fabaceae	As Trop	400-1800	Sd, Rt	Constipation and blood pur

<i>Crotalaria bialata</i> Schr.		Fabaceae	As. trop.	400-2000	Wp	Tonic, pregnant women, urinary problem, facilitate c birth, snake bite etc
<i>Crotalaria calycina</i> Schr.		Fabaceae	Afr Trop	400-1200	Wp	Syphilis, cholera, dysentery, vener sores, haematuria and pain
<i>Crotalaria prostrata</i> Rootler ex Willd	Chunchhuni	Fabaceae	As. trop	450-2000	Wp	Diarrhoea, antiemet and facilitate the child birth
<i>Desmodium gangeticum</i> (L.) DC.	Salpalnu	Fabaceae	As Trop Austr	400-1000	Rt	Astringent, tonic, bronchitis, asthma, dysentery, eye infec vomitting and fever
<i>Desmodium heterocarpon</i> (L.)DC.	Sarivan	Fabaceae	As Trop Austr	500-1200	Rt, Wp	Fever, cough, tonic
<i>Desmodium laxiflorum</i> DC.	Kadakratru	Fabaceae	As. trop.	400-2200	Rt	Vomiting, small pox and unconscious
<i>Desmodium microphyllum</i> (Thunb.) DC.	Sunsuni, Chattomara	Fabaceae	As Trop Austr	300-2300	Rt	Abortion
<i>Desmodium motorium</i> (Houtt.) Merr.	Bhunakra, Ote-atil	Fabaceae	As Trop	400-1000	Rt, Lv, Fr	Rheumatic, wounds
<i>Desmodium pulchellum</i> Backer	Jeetedari	Fabaceae	As Trop Austr	600-1300	Rt, Fl, St	Burning sensation in stomac head ache, cavities in tooth, repels bed bug
<i>Desmodium triangulare</i> (Retz.) Merr.	Kalabija	Fabaceae	As Trop	450-1400	Rt	Stomachache, diarrhoea and cataract
<i>Desmodium triflorum</i> DC.	Kudaliya	Fabaceae	Cosmop Trop	500-2300	Wp	Breast pain, colic, body pai sores, spleen dysentery, toothache and nail diseases
<i>Desmodium triquetrum</i> (L.) DC.	Salparni	Fabaceae	As Trop	500-1500	Wp	Dysentery, toothache, snake
<i>Indigofera cassioides</i> Rottb. ex DC.	Sakena	Fabaceae	Reg. Himal.	450-2000	Lv	Epilepsy, cough, swell face labour, urine
<i>Lens culinaris</i> Med.	Masur	Fabaceae	Oriens	450-2000	Sd	Small pox
<i>Macrotyloma uniflorum</i> (Lamk.)Verd.	Thanthura, Kulthi	Fabaceae	Geront. trop.	400-1800	Sd, Lv, Wp	Kidney stone, postnatal treatment, menstrual compl tooth ache, dysentery, burns leprosy, pneumonia, pleuric dysuria, leucorrhoea, renal calculi, bladder stone, bloo purifier
<i>Sesbania sesban</i> (L.) Merr.	Dhaincha	Fabaceae	Cosmop Trop	300-600	Fl, Lv	Antifertility, chronic eruptic ulcers, colic, pain, pleurisy pneumonia and urin trouble
<i>Uraria picta</i> (Jacq.) Desv.	Dabra	Fabaceae	Geront Trop	800-1200	Rt	Gonorrhoeal
<i>Zornia gibbosa</i> Span	Dwipat	Fabaceae	Reg Bor Temp	500-2200	Rt	Colic pain, sedative and indigestion
<i>Fumaria indica</i> Pugsley	Pit-papra, Khairua	Fumariaceae	Geront Trop	500-1400	Wp	Diuretic, Diaphoretic, aperi wounds, suppressed urinatio
<i>Canscora decussata</i> (Roxb.) Roem.	Sankhawali	Gentianaceae	Ind Or. Afr. trop.	400-2300	Wp	Nerve tonic, blood purifier, stomachache
<i>Curculigo orchiioides</i> Gaertn.	Kali-Musli, Musali	Hypoxidaceae	As Trop	300-1800	Rh	Jaundice, piles, fever, ear complaints, epilepsy, itchin venereal diseases, leucorrh impotence, cuts, cough, asth blindness, eye diseases, bleeding nose, skin disease diarrhoea, gonorrhoea, unconsciousness in children, tonic, galactagogue, aphrodisiac, veterinary eye diseases
<i>Hypoxis aurea</i> Lour	Golkya	Hypoxidaceae	Cochinchin.	300-2000	Rh	Aphrodisiac, injuries, swel

<i>Acrocephalus hispidus</i> (L.) Nicols.	Utkund	Lamiaceae	Ind Or. ; China	400-2000	Wp, Rt, Lv	Cold, sore throat, expectora
<i>Ajuga bracteosa</i> Wall. Ex Benth.	Neelkanthi, Kadwipatti	Lamiaceae	Afr Trop Ind Or. As	500-2100	Lv, Wp	Blood purifier, burns, fever purgative, malarial fever, astringent, febrifuge, tonic, anthelmintic, cuts
<i>Anisomeles indica</i> (L.) Ktze.	Goplya, Gobara, Kalabangra	Lamiaceae	Ind Or. Malaya	250-2000	Wp, Lv	Gastric troubles, blood puri muscular pain, nervous complaints, fever, wounds, swelling on the neck, astring carminative, antipyretic, ch nocurnal emission
<i>Clinopodium umbrosum</i> Koch.	Birchee	Lamiaceae	Ind Or. ; Oriens	250-2000	Wp	Blood purifier, gastric trou astringent, carminative
<i>Elsholtzia ciliata</i> (Thunb.) Hyland.	Chhali	Lamiaceae	Europe	400-2000	Fl	Skin disease
<i>Leucas cephalotes</i> (Roth.) Spr.	Gumba, Bishkapru	Lamiaceae	Ind Or.	250-1500	Wp, Lv, Fl	Skin diseases, scabies, feve cough, cold, malaria, heada eye diseases, diarrhoea, constipation, tooth and gum troubles, wounds, diphoreti anthelmintic, anticeptic, antidote to snake poison Bone dislocation
<i>Leucas mollissima</i> Wall. ex Benth.	Geeta-kushir	Lamiaceae	Ind Or. ; China	400-1000	Wp	
<i>Nepeta hindostana</i> Haines	Billilotan	Lamiaceae	Europe; Oriens	400-800	Wp	Fever, gonorrhoea, cardiac tonic
<i>Ocimum basilicum</i> L.	Marua, Murya	Lamiaceae	As Occ et Trop	300-1500	Lv, Wp, Sd,	Cold, cough and fever, ston complaints, headache, earac dropsy, convulsion, epileps cholera, insecticide, wound remove alcoholic intoxicati
<i>Ocimum sanctum</i> L.	Tulsi, Shyma-tulsi	Lamiaceae	Geront Trop	250-1000	Lv, Wp	Antiseptic, cold, cough and fever, urinary troubles, vomiting, bronchitis, chicken-pox, cholera, constipation, headache, diarrhoea, dropsy, ear complaints, malaria, colitis gastric complaints, live complaints, wounds, insect repellent, antidote to poison leprosy Wounds, rheumatism
<i>Orthosiphon rubicundus</i> Benth.	Ban-kikri	Lamiaceae	Ind Or. ; Burma	250-3000	Rt	
<i>Perilla frutescens</i> (L.) Britt.	Bhangjeera, Bhangiri	Lamiaceae	Ind Or.	250-3000	Wp, Lv	Rheumatic arthritis, bronchi cough, uterine complaints, flavouring
<i>Salvia plebeia</i> Br.	Sathi, Samundarsok	Lamiaceae	As Or Austr	600-1200	Sd	Menorrhoea and gonorrhoea
<i>Leea asiatica</i> (L.) Rid.	Kumali, Nagashya	Leeaceae	Ind Or. Burma	250-1800	Rt, Fr, Lv	Night-fever, cuts, wounds, rheumatism, urine troubles
<i>Gloriosa superba</i> L.	Kalihari, Lakya	Liliaceae	As Trop	400-2200	Rt, Lv, Rh	Intermittant fever, cholera, infertility, gonorrhoea, skin diseases, stomachache, sore syphilis, leprosy, spleen complaints, piles, scabies, scorpion bite, insect bite, asthma, facilitate child birth abortifacient, anthelmintic, tumors, suppressed urinatio veterinary smaall-pox Wounds and cough
<i>Linum usitatissimum</i> L.	Alsi, Atasi	Linaceae	Europe Oriens	300-800	Sd	

<i>Reinwardtia indica</i> Dumort.	Phiunli	Linaceae	Ind Or.	300-2400	Fl, Lv	Petals chewed as tongue wa
<i>Abelmoschus manihot</i> (L.) Med. ssp.tetraphyllusvar. pungens (Roxb.) Hochr.	Jangli Bhindi	Malvaceae	Ind Or.	400-1500	Rt	Pneumonia
<i>Abelmoschus</i> <i>moschatus</i> (L.)Medik.	Kapur-kanda	Malvaceae	Geront. trop.	300-800	Sd	Veterinary medicine, perfor
<i>Malva parviflora</i> L.	Soncheli	Malvaceae	Europe	400-2000	Sd, Lv,	Gonorrhoea, throat irritatio cuts and wounds
<i>Malvastrum</i> <i>coromandelianum</i> Garcke	Suchi	Malvaceae	Cosmop Trop	400-1200	Lv, Rt	Dysentery, wounds, jaundic rheumatism, sprain, sores, aphrodisiac
<i>Sida acuta</i> Burm.f.	Bala	Malvaceae	Amer Centr.	250-2700	Lv, Fr, Rt,	Gastric diseases, vermifuge stomachache, gonorrhoea, b abortifacient, antiemetic, anthelmintic, tonic
<i>Sida cordata</i> L.	Bhiyli, Kharenti	Malvaceae	Reg Trop	400-1800	Lv, Rt, Wp	Gonorrhoea, spermatorrhoe asthma, impotence, leucorr piles, urinary complaints, c and wounds, dysentery, toni
<i>Sida cordifolia</i> L.	Balu, Barialas	Malvaceae	Reg Trop	250-1200	Sd, Rt, Wp	Rheumatism, dysentery, gonorrhoea, boils, sexual weekness, dyspepsia, stomachache, venereal disea wounds, spermatorrhoea, leucorrhoea, diuretic, astringent, tonic
<i>Sida rhombifolia</i> L. ssp <i>rhombifolia</i>	Bhiunli	Malvaceae	Amphig Trop	400-1200	Lv, Rt, St,	Boils, joint pain, asthma, fe cuts, bruises, dysentery, rheumatism, tuberculosis, h ailments, gum infections, to
<i>Martynia annua</i> L.	Bichhwa, Bichu	Martyniaceae	Brass Mexic	250-2000	Lv, Wp, Fr	Epilepsy, sores, tonsilitis, wounds, scabies, eczema, h fall, carbuncle, inflammation, itching
<i>Mimosa pudica</i> L.	Chu-mui	Mimosaceae	Brass	400-1200	Wp	Dysentery, sores, boils, diruretic, epilepsy, fever, h ache, hydrocycle, kidney disease, leucorrhoea
<i>Boerhavia diffusa</i> L.	Pundera, punarnava	Nyctaginaceae	Cosmop Trop	500-2000	Rt, Lv	Tonic, eye complaints, asth bronchitis and liver trouble jaundice
<i>Ludwigia octovalvis</i> Raven.	Bhuikura, Datiju	Onagraceae	Amphig trop.	300-600	Wp	Eczema, skin diseases, feve and wounds of toe
<i>Rhynchosyilis retusa</i> (L.) Bl.	Kopouphul	Orchidaceae	Ind Or. Malaya	300-1500	Wp	Inflammation of wounds, centipede bite
<i>Aeginetia indica</i> L.	Kandar	Orobanchaceae	As. trop.	400-1200	Sd	Burns
<i>Biophytum sensitivum</i> (L.) DC.	Chuimui, Lajwanti, Murphula	Oxalidaceae	Cosmop Trop	300-800	Lv, Wp	Burn, decreases sexual vig gidding, headache, diarrhoe malaria, muscular and rheu pain and tonic, insect bite
<i>Oxalis corniculata</i> L.	Khati-Buti, Chukra	Oxalidaceae	Amphig Temp et Trop	300-1800	Lv, Wp	Conjunctivitis, insect bites, appetite, diarrhoea, dysente epilepsy, piles, fever, jaunc skin diseases, stomachache,
<i>Oxalis debilis</i> H.B.K.var. <i>corymbosa</i> (DC.)Lour.	Bhilmori, Chukra	Oxalidaceae	N.Granat.	250-700	Wp, Lv	Antidote to toxicity
<i>Argemone mexicana</i> L.	Pili Kateli	Papaveraceae	Mexic Amer Bor	500-1200	Sd, Rt, Sap	Seeds emetic narcotic, Roo vermicide, chewed in leucorrhoea, sap rheumatic
<i>Peperomia pellucida</i> (L.)Kunth.	Luchipata	Piperaceae	Am. et Afr. trop.	250-1500	Wp	Stomachache, headache, fev

<i>Plantago major</i> L.	Kaneli	Plantaginaceae	Europe As et Amer Bor	600-3200	Lv	Gastric troubles, intestinal injury
<i>Plumbago zeylanica</i> L.	Chitrak	Plumbaginaceae	Geront Trop	500-2500	Rt	Skin diseases, wounds, cau abortion, eczema, diarrhoea antifertility, dyspepsia, headache, leprosy, muscular pain, malaria, fever, appetite spleen complaints, wounds
<i>Polygala arvensis</i> Willd.	Nilkanta	Polygalaceae	China Ind Or.	400-800	Rt, Lv, Wp	Cough, asthma, nervous disorders, rheumatism, joint swellings, bronchitis
<i>Polygonum barbatum</i> L.		Polygonaceae	Geront Trop	300-1500	Wp	Snake bite, fish poison
<i>Polygonum chinense</i> L.		Polygonaceae	As Or Malaya	300-2700	Wp	Tonic, antiscorbutic
<i>Polygonum hydropiper</i> L.	Jiyanti	Polygonaceae	Reg. Temp Bor et Aust.	250-1500	Wp	Skin disease, ring worm, fish poison
<i>Polygonum plebejum</i> Br		Polygonaceae	Geront Trop et Temp	500-1300	Rt	Baldness
<i>Rumex nepalensis</i> Spr.	Khatura, Amlya	Polygonaceae	As Occ Ind Or. Malaya Afr Austr	500-3000	Lv	Dysmenorrhoea, stomach ac colic, boils, cooling diuretic purgative, swelling of muscle scurvy
<i>Monochoria vaginalis</i> (Burm.f.) Presl. Ex Kunth	Nanka	Pontederiaceae	As et Afr Trop	250-1000	Rh	Liver complaints, asthma, dysentery, rheumatism, anaemia
<i>Portulaca grandiflora</i> L.	Luaniya	Portulacaceae	Reg Calid	600-1500	Lv	Depurative, hepatitis, liver cirrhosis, swelling and pain the pharynx, insect bites, burn scalds, eczema
<i>Portulaca oleracea</i> L.	Luniya	Portulacaceae	Reg Calid	600-1500	Lv	Liver tonic
<i>Anagallis arvensis</i> L.	Jonkmari, Jainghami	Primulaceae	Europe AsTemp	400-2100	Wp	Leprosy, dropsy, Diphtheria cerebral affection and detachment of leeches from the body
<i>Ranunculus arvensis</i> L.	Chambul	Ranunculaceae	Europe As Bor	500-2000	Wp	Fever, asthma, skin ailment
<i>Ranunculus muricatus</i> L.	Chingir	Ranunculaceae	Europ; Oriens	300-1200	Fl	Tonsillitis
<i>Ranunculus sceleratus</i> L.	Jaldhanya, Aglaon	Ranunculaceae	Reg Bor Temp	500-2000	Wp	Vermifuge, anodyne, skin disorders, considered as poisonous
<i>Duchesnea indica</i> (Andr.) Focki	Bhiun-kaphal, Kaphlya	Rosaceae	Ind Or. Malaya China	450-2200	Lv	Diarrhoea and leucorrhoea, swelling
<i>Potentilla sundaica</i> Kuntze		Rosaceae	Ind Or.	400-2500	Rt	Applied externally on itches abscesses and snake bite
<i>Borreria articularis</i> (L.f.) Will.	Guthari, Sathgathia	Rubiaceae	Ind Or.	300-1000	Sd, Lv	Dysentery, haemorrhoids and diarrhoea, antifertility, headache, gum trouble, skin diseases, stimul, ulcers, wounds, tooth ache, eye diseases
<i>Galium aparine</i> L.	Khuskusa, Kuri	Rubiaceae	Reg. bor. temp. et Magell.	300-2800	Lv	Astringent and skin diseases, cuts, burns
<i>Hedyotis corymbosa</i> (L.) Lamk.	Daman-papar	Rubiaceae	Ind Or.	300-2500	Wp, Rt	Fever, liver diseases, gastric irritation, jaundice, malaria nervous depression, burning sensation in palms, soles
<i>Bacopa monnieri</i> (L.) Penn.	Pani-brahmi	Scrophulariaceae	Cosmop.	300-1200	Lv, Wp	Epilepsy, rheumatic pains, memory, abdominal pain, cough, cooling, headache,

<i>Limnophila rugosa</i> (Roth.) Merr.	Karpurya	Scrophulariaceae	As Trop Ins Pacif	300-1200	Lv	eczema, fever, boils, ringworm, tonic, blood purifier, laxative, Stomachache
<i>Lindenbergia indica</i> (L.) Ktze.		Scrophulariaceae	Ind Or.	300-2000	Lv	Bronchitis, cuts, wounds
<i>Mazus pumilus</i> Van Steen.	Mastyar	Scrophulariaceae	Afr.; Austr.	250-2000	Lv	Burns, Colic pain
<i>Scoparia dulcis</i> L.	Atisirsa, Mithi-patti	Scrophulariaceae	Reg Trop	300-1000	Wp, Rt, Lv	Ulcer of tongue, tonic, urinary troubles, gonorrhoea, digestion, antiemetic, fever Cuts, burns and sores
<i>Veronica anagallis-aquatica</i> L.	Sada, Sadevi	Scrophulariaceae	Reg Bor Temp	250-2500	Wp	
<i>Physalis minima</i> L.	Damphu	Solanaceae	Geront Trop	300-1500	Lv, Wp, St	Gastric troubles, ear ache, stomach ache, abdominal disorders, fever
<i>Physalis peruviana</i> L.	Rashbhari	Solanaceae	Reg. Calid.	500-2200	Lv,Fr	Boils, abdominal disorders pregnancy
<i>Solanum nigrum</i> L.	Makoi	Solanaceae	Venezuela	300-2800	Lv, Fr	Diarrhoea, fever, lever complains, dysentery, piles skin diseases, stomach ache throat trouble, cough, eye complains, goiter, rheumatism ulcer in mouth, heart ailment urinary complains, inflammation of kidney, bladder, scrotum testicles
<i>Solanum surattense</i> Burm.f.	Bhuiakhanderi, Barkatali	Solanaceae	Geront Trop	250-1500	Fr, Rt, Fl	Fever, cough, asthma, blisters, boils, chest pain, gonorrhoea gum trouble, paralysis, pile tooth ache tooth decay, migraine, dropsy, eye complains, scorpion bites, urinary complains
<i>Solanum viarum</i> Dunal.	Kacharia	Solanaceae	Brass	400-1500	Fr,Sd	Tooth ache worms teeth, contraceptive, menstrual complains
<i>Corchorus aestuans</i> L.	Titpatti	Tiliaceae	Amer Trop	400-1000	Sd	Dyspepsia
<i>Corchorus olitorius</i> L.	Kosta	Tiliaceae	Cosmop Trop	500-1000	Lv	Fever
<i>Triumfetta rhomboidea</i> Jacq.	Leswa-kura, Chiryari	Tiliaceae	Reg Trop	500-1500	Rt, Fr, Lv	Cuts, facilitate delivery, dysentery, stomachache
<i>Urtica dioica</i> L.	Kandali, Kagoos	Urticaceae	Reg Bor Temp	500-3600	Lv, Rt	Injury, Contraceptive, ripening of boils, internal injury
<i>Phyla nodiflora</i> (L.) A. Rich	Jal-butti, Jal-pipali	Verbenaceae	Amphig Trop	250-1400	Wp, Lv	Cooling, Diuretic, fever, but menstrual complains, post- fever
<i>Viola betonicifolia</i> Sm.	Vanfsa, Phori	Violaceae	Austr. Ins.; Norflok	500-1800	Wp	Fever, cough, diaphoretic, skin diseases, blood diseases
<i>Viola pilosa</i> Bl.	Vanfsa, Kauru	Violaceae	Ind Or. Malaya China	500-3000	Wp	Diaphoretic, body ache, emphysema, asthma, bronchitis, wounds cuts, lungs diseases
<i>Costus speciosus</i> Sm.	Keu, Keun	Zingiberaceae	Ind Or.; Malaya	300-1500	Lv, Rh	Fever, bronchitis, cough, constipation, cholera, indigestion, giddiness, scabs wounds, vermifuge, headache, jaundice
SHRUBS						
<i>Adhatoda zeylanica</i> L.	Baisingu, Basing	Acanthaceae	As Trop	300-1500	Lv, Rt, Fl	Cough and cold, asthma, bronchitis, malaria, eczema, rheumatism, antiseptic, pulmonary infections, antispasmodic, fever, anthelmintic, joint dislocation

<i>Carissa opaca</i> Stap.	Karaunda, Karamarda	Apocynaceae	Ins Molucc	300-1200	Rt, Fr	swelling Purgative, fever, cough, diarrhoea
<i>Holarrhena antidysenterica</i> Wall.	Kura, Kuri, Dudhi	Apocynaceae	As Trop	300-1200	Bk, Lv, Sd	Dysentery, asthma, febrifug appetite, colic, constipation, cough
<i>Rauwolfia serpentina</i> (L.) Benth. Ex Kurz.	Sarpagandha	Apocynaceae	Ind Or. Java	300-1000	Rt	Epilepsy, intestinal disorde nervous disorders, malaria, insomnia, blood pressure, f anxiety, vomiting, anthelmit
<i>Tabernaemontana divaricata</i> (L.) Br.	Chandni, Jangli- chameli	Apocynaceae	Ind Or.	300-800	Rt, La, Lv, Fl	Toothache, skin diseases, s fever, headache, boils, eye diseases, anthelmintic
<i>Phoenix acaulis</i> Buch.-Ham. ex Roxb.	Khajuri	Arecaceae	Ind Or. Burma	300-700	St, Rh	Masticatory, lactation, brochitis, cough, fever
<i>Calotropis procera</i> Br.	Aak, Madar	Asclepiadaceae	Peruv Afr Trop Ind Or.	300-800	La, Rt, Lv	Asthma, cold and cough, cholera, dropsy, eczema, leprosy, rheumatism, spleer complaints, skin diseases, stomach disorders
<i>Artemisia nilagirica</i> (Cl.) Pamp.	Kunjaa	Asteraceae	Reg Temp Bor	300-1500	Lv, St, Wp	Stomach pain, intestinal wo antihelminthic, antiseptic, antispasmodic, epilepsy, headache, asthma, menstrua complaints, nervous disorde peptic ulcer, skin diseases, wounds, sores, tonic, Suppressed urination, meas
<i>Inula cappa</i> (Ham. Ex D.Don) DC.	Athhu, Tamagari	Asteraceae	Reg. Himal. Java China	300-2500	Rt	
<i>Buddleia asiatica</i> Lour	Bhati	Buddlejaceae	As. Trop.; Malaya	400-1500	Lv, Rt	Abortifacient, skin diseases inflammation
<i>Capparis zeylanica</i> L.	Bauri	Capparaceae	Ind Or.	500-800	Fr, RtBk, Lv,	Diabetes, blisters, boils, cholera, pleuricy, pneumoni piles, rheumatism, sores, swelling in testicles, ulcer, anthelmintic
<i>Ipomoea carnea</i> ssp. <i>fistulosa</i> Austin	Behaya	Convolvulaceae	Bras.	250-1000	Lv	Cuts and wounds, sparain
<i>Antidesma acidum</i> Retz.	Amlu, Sharschant and Dhakki	Euphorbiaceae	Ind Or. Malaya Austr Afr Trop	400-1000	Lv,Rt, Fr	Blood Dysentery, muscular pain,pneumonia, dropsy, ve diseases and bite of rabid d
<i>Ricinus communis</i> L.	Arand, Andi	Euphorbiaceae	Reg Trop	300-2500	Sd,Lv, Rt	Skin diseases, sores, gum trouble, cholera, boils, constipation, dysentery, dydrocle, joint pain, vermic muscular pain, head ache, burns, purgative
<i>Securingea virosa</i> (Roxb. Ex Willd.) Pax. and Hoffm.	Athaina,Rithoul	Euphorbiaceae	China	300-1800	Rt	Purgative and aphrodisiac, constipation, stomachache, b fracture
<i>Aeschynomene indica</i> L.	Laugauni	Fabaceae	Ind Or.	400-800	Wp	Impotency and fever
<i>Flemingia macrophylla</i> (Willd.) Merr.	Bhanjabasa, Charariaw	Fabaceae	As Trop	600-1800	Wp	Cholera, blindness, cold, dysentery, pain in body, muscles, spleen problem, s pox and stomachache
<i>Flemingia strobilifera</i> (L.) Ait.	Ajhar, Chauranga	Fabaceae	Ind Or. Malaya	400-2300	Rt, Lv, Fr	Epilepsy, gastric, hysteria, leucorrhoea, skin diseases, tonic and analagnic
<i>Tephrosia candida</i> (Roxb.)D.C.		Fabaceae	Amphig Trop	250-800	Lv	Sores

<i>Flacourtia indica</i> (Burm.f.) Merr.	Kandai, Kangu	Flacourtiaceae	Ind Or. Malaya Madag	400-1600	Fr, Lv, Bk,	Hepatitis, rabbies, burning sensation in chest, diarrhoea, wounds, eczema, rheumatis cholera, skin diseases, wet mouth diseases
<i>Colebrookia</i> <i>oppositifolia</i> Sm.	Binda, Bindu, Bhirmoli	Lamiaceae	Ind Or. Burma	300-1800	St, Rt, Lv	Wounds, toothache, sores, e diseases, hysteria, epilepsy cuts, burns, cough, adultera tobacco
<i>Pogostemon</i> <i>benghalense</i> (Burm.f.) Ktze.	Kala-basingu, Lujrya	Lamiaceae	Ind Or.	300-2500	Lv, Wp, Rt	Fever, colic, wounds, cuts, haemorrhoea
<i>Asparagus adscendens</i> Buch.-Ham. ex Roxb.	Jhirmi, Kairu	Liliaceae	Reg. Himal; Afghan.	250-1800	Rt, Lv	Abortifacient, used in dysur diabetes, dysentery, aphrodisiac, galactagogue, tonic, veterinary medicines
<i>Woodfordia fruticosa</i> (L.) Kurz.	Dhaulta, Dhau	Lythraceae	As et Afr Trop	400-1500	Lv, Bk, Fl	Haemorrhoides and tonic, cooling, cough, dysentery, fever, injuries, night blindn bleeidng in pregnancy, loss appetite in pregnancy, skin diseases, sores, spleen complaints, sprain, syphilis ulcer, veterenary sores and ulcers
<i>Hibiscus rosa-sinensis</i> L.	Gudhal	Malvaceae	Geront Trop	400-700	Bk, Fl, Rt	Emolient, abortificent, antifertility, bronchitis, chil birth, contraceptive, cough, fever, gonorrhoea, kidney diseases, menstrual compla urinary complaints, to wash
<i>Urena lobata</i> L.	Chatkura, Unga	Malvaceae	Cosmop Trop	400-1500	Lv, Fl, Rt, Bk	Diarrhoea, Dysentery, expectorant, body pain, rheumatism, lumbago, hyperacidity, hydrophobia Cough, cold, bronchitis and urinary complaints
<i>Mimosa himalayana</i> Gamble	Kingrei, Aila	Mimosaceae	Ind Or.	450-1500	Lv	Sores, constipation, stomachache
<i>Ficus palmata</i> Forsk.	Fagu	Moraceae	Afr Trop Arab Ind Or.	600-2000	La, Fr	
<i>Ardisia solanacea</i> Roxb.	Gardagulanj	Myrsinaceae	Ind Or. Malaya	400-1200	Rt, Bk	Postnatal treatment, headacl snake bite
<i>Embelia robusta</i> Roxb.	Gaia	Myrsinaceae	Ind Or.	250-800	Fr, Rt, Lv	Cathartic, Anthelmintic, especially to expel tapewor Bronchial and skin ailments
<i>Pittosporum</i> <i>nepaulense</i> Reh. and Wilson	Tumri, Raini	Pittosporaceae	Ind.or. (Himal; Sikkim)	400-1200	Bk	
<i>Rhamnus virgata</i> Roxb.	Chentuli, Choudelu	Rhamnaceae	Nepal	500-2400	Bk	Ringworm, emetic, purgativ and eczema
<i>Rubus ellipticus</i> Sm.	Hinssar	Rosaceae	Ind Or.	500-2000	Fr,Rt	Dysentery, malaria, stomach and worms
<i>Rubus niveus</i> Thunb.	Anchu	Rosaceae	Reg. Himal.	400-2500	Fr	Taken in dismenorrhoea and snake bite, stomachache
<i>Catunaregam spinosa</i> Trivengadam	Maindul, Mainfal	Rubiaceae	Geront Trop	300-1000	Fr, Bk	Dyspepsia, asthma, cough, a anthelmintic
<i>Coffea benghalensis</i> Heyne ex Roem.	Akubfagee-rip	Rubiaceae	Ind Or. Malaya	300-800	Fr, Lv	Fever
<i>Pavetta indica</i> L. ssp. <i>tomentosum</i> Bennet	Angari, Kankra	Rubiaceae	As et Austr Trop	300-1200	Lv, Rt	Dropsy and jaundice
<i>Murraya koenigii</i> (L.) Spr.	Gandela, Gani	Rutaceae	Ind Or.	300-1500	Rt, Lv	Anthelmintic, diarrhoea, dysentery, eruptions, laxativ malarial fever, stomach complaints, good for hair, piscicide and insecticide

<i>Murraya paniculata</i> (L.) Jack.	Machula, Kamini	Rutaceae	As et Austr Trop Polynesia	250-1400	Fl, Fr	Cough, cold
<i>Dodonaea viscosa</i> (L.) Jacq.	Santha, Vellari	Sapindaceae	Cosmop. trop. et subtrop.	250-2000	Lv, Fr	Cuts, wounds, intestinal wo cold
<i>Solanum khasianum</i> Cl.	Charra	Solanaceae	Reg. Himal.	300-1500	Fr, Sd	Cold, cough, asthma, bronch headache, insect bite, tooth tooth decay
<i>Solanum torvum</i> Sw.	Bhurat	Solanaceae	Cosmop Trop	300-1000	Lv, Fr, Rt	Wounds, tooth ache, skin diseases, spleen enlargement stomach ache and malaria
<i>Helicteres isora</i> L.	Marorphali	Sterculiaceae	As et Austr Trop	300-1500	Rt, Lv, Fr	Diarrhoea, spasmodic pain, intestinal worms, stomach a vomiting,
<i>Callicarpa macrophylla</i> Vahl.	Daiya, Bhirnoli	Verbenaceae	Ind Or.	300-1400	Fr, Lv	Oral aphthae, rheumatic pain blister, boils on tongue, cut headache, indigestion, abdominal troubles, ulcers : wounds
<i>Caryopteris odorata</i> (D. Don.) Robinson		Verbenaceae	Reg. Himal.	300-1000	Lv	Abortifacient
<i>Clerodendrum indicum</i> (L.) Ktze	Chingori, Bharangi	Verbenaceae	Ind Or. Malaya	250-1000	Rt, Lv	Abortifacient, cholera and bronchitis
<i>Clerodendrum serratum</i> (L.) Moon	Ban-bakri	Verbenaceae	Ind Or. Burma	350-1500	Rt, Lv	Bronchitis and antidote to s bite
<i>Clerodendrum viscosum</i> Vent	Bhanua, Bhant	Verbenaceae	Malaya	250-1500	Lv	Fever, fits, headache, body boils, gastric troubles, laxa vermifuge, skin diseases, cl pain, ulcer, swelling, sores, promotes hair growth, rheumatism, tonic
<i>Duranta repens</i> L.		Verbenaceae	Amer Trop	250-1600	Lv, St	Used as a stimulating wash ulcers, expectorant, form a constituent of the well-know Ayurvedic preparation Das
<i>Lantana camara</i> L.	Kuri-ghas, Laltenya	Verbenaceae	Amer Trop	250-2000	Lv	Ringworm, itching, skin diseases, malaria, rheumatism germicidal, insecticidal
<i>Vitex negundo</i> L.	Shiwali, Siwain	Verbenaceae	As Trop et Sub trop	250-2000	Lv, Fr, Rt, Fl	Rheumatism, sprains, heada bone fracture, blisters, boil cold, bodyache, cough, diarrhoea, dysentery, expectorant, leprosy, gout, trouble, itching, leprosy, paralysis, pneumonia, postr treatment, toothache, vermil insect repelent, syphilis, scabies, skin diseases, ecze diarrhoea, cold, diuretic, pi gout, reduce sex desire, epilepsy, dropsy, arthritis, anthelmintic, analgesic
TREES						
<i>Lannea coromandelica</i> (Houtt.) Merr.	Kalmina, Jhinghan	Anacardiaceae	As et Afr Trop	300-1500	Lv, Bk	Diarrhoea, cholera, dysente stomach ache, sores, swell, ulcer and wounds
<i>Mangifera indica</i> L.	Aam, Amra	Anacardiaceae	Ind Or. Malaya	300-1000	Bk, Sd	Haemorrhage, diarrhoea
<i>Alstonia scholaris</i> (L.) R.br.	Chatiyani	Apocynaceae	Geront Trop	300-800	Bk, La	Fever, malaria, diarrhoea, headache, sinusitis, leprosy wounds

<i>Thevetia peruviana</i> Merrill	Kaner	Apocynaceae	Am. trop.	300-1600	Rt, Bk	Cough, bronchitis, bronchit; leprosy, Can enhance the musscles of heart and lungs
<i>Oroxylum indicum</i> (L.) Vent.	Tantia, Arula	Bignoniaceae	As Trop	300-1500	Bk, Fr, Lv, Rt	
<i>Stereospermum</i> <i>chelonoides</i> DC.	Padeli, Paral	Bignoniaceae	Ind Or. Burma	400-1200	Rt, Bk, Sd	Stomachache, rheumatism, malaria, liver complaints, asthma, cholera, dysentery, nervous diseases. Used in tl preparation of Dashamoola:
<i>Bombax ceiba</i> L.	Semal, Salmali	Bombacaceae	Amer Austr	400-1600	Fl,Gum	Aphrodisiac, digestive disorders,pimples, anaemia asthma, chicken pox, choler gonorium, leprosy
<i>Garuga pinnata</i> Roxb.	Titmar, Kaikar	Burseraceae	Ind Or.Malaya	300-600	Bk, Fr,	Diabetes, asthma, astring, dysentery, wounds, skin diseases, vener diseases
<i>Bauhinia purpurea</i> L.	Guiral, Kwiryal	Caesalpiniaceae	Ind Or. Malaya Burma China	400-700	Bk, Lv, St, Fl	Astring, wounds, stomach, l fracture, small-pox, rheume and dropsy
<i>Bauhinia racemosa</i> Lamk.	Jhinghora, Kachnal	Caesalpiniaceae	Ind Or. Malaya China	500-1200	Bk, Fr	Dysenetry and diarrhoea
<i>Bauhinia variegata</i> L.	Guiral, Kuiral	Caesalpiniaceae	Ind Or. Burma China	400-1900	Lv, Bk	Leprosy, pile (bleeding), ,a;aroa, worms, dysentery, indigation, fatness, syphilis
<i>Cassia fistula</i> L.	Kirala, Amaltas	Caesalpiniaceae	As Trop	400-1500	Lv, Fr	Blood purification, asthma, antifertility, antiseptic, burr dog bite, cough, diarr, gastr leprosy, jaundice, liver problem, ringworm, stomac ache, tooth ache, swell of throat, pimples, cancer, blindness, dysuria, epilepsy indigation and syphil
<i>Terminalia alata</i> Roxb.	Ashna, Sain	Combretaceae	Ind Or.	400-1500	Bk, Fr, Sd	Anaemia, antiemet, burns, cholera dysentery, fever, haematuria, loose motions, sores, stomach ache and wounds
<i>Terminalia bellirica</i> (Gaertn.)Roxb.	Bahera, Bibhitak	Combretaceae	Ind Or. Malaya	400-1300	Fr,Sd,	Cough, asthma, bronchitis, diabetes, gastric, dysuria, c leprosy, liver problem, pile stomach ache, muscular pai and prugative
<i>Terminalia chebula</i> Retz.	Triphala', Haira, Har, Harara	Combretaceae	As Trop	400-1200	Fr,Sd,	Bronchitis, cold, constipati dysuria, eczema, dysentery, measles, sore, pneumonia, stomach and spleen probler
<i>Dillenia indica</i> L.	Chalta	Dilleniaceae	As Trop	250-1000	Fr, Lv	Dyspepsia, bronchitis, edib
<i>Shorea robusta</i> Gaertn.	Sal	Dipterocarpaceae	Ind Or.	500-1000	Resin, Bk, Sd	Diarrhoea, dysentery, gonorrhoea, loose motion
<i>Diospyros malabarica</i> (Descr.) Kost.	Gab, Kala-tendu	Ebenaceae	Afr Trop	450-700	Fr, Bk	Dyspepsia and diarrhoea
<i>Diospyros montana</i> Roxb.	Pinna	Ebenaceae	As Trop	450-1000	Fr, Rt, Bk	Cracks in sole, Abortion, dysuria, fever, facilitate delirvery, jaundice, pneumc vomiting, diarrhoea
<i>Cordia dichotoma</i> Forst.f.	Lasora, Lisora, Koda	Ehretiaceae	As. trop.	300-1200	Sd, Lv, Fr,	Urticaria, ulcer, dyspepsia, expectorant, stomach ache, urinary complaints, jaundic cholera, cold, cough, chest infection, lung diseases,

<i>Ehretia acuminata</i> Br.	Pudila, Nara	Ehretiaceae	As et Austr Trop	300-2000	Fr, Bk	constipation Sores on tongue, edible
<i>Ehretia laevis</i> Roxb.	Chamror, Khoda	Ehretiaceae	As et Austr Trop	250-1600	Lv	Bodyache, muscular pain, syphilis, diphtheria
<i>Bridelia retusa</i> (L.) Sprengel	Gauli, Ekadaniya	Euphorbiaceae	Ind Or.; Malaya	300-1000	Lv, Rt	Diarrhoea, used for gargle
<i>Drypetes roxburghii</i> (Andr.) Focke	Juti, Pitmar	Euphorbiaceae	Ind Or. Malaya	400-1500	Lv	Paste used in skin allergy
<i>Emblica officinalis</i> Gaertn.	Anwala, Aola, Aonla	Euphorbiaceae	As Trop	300-2000	Fr, Lv, Bk	Bronchitis, asthma, cooling burns, constipation, headache, stomach ache, dizziness, mad liver problems, diabetes, re taste, dysentery
<i>Euphorbia tirucalli</i> L.	Kharsani	Euphorbiaceae	Ind Or.; Afr. or.	400-1500	La	Bodyache, eczema, wounds toothache, earache, scabies rheumatism, warts
<i>Jatropha curcas</i> L.	Pahari-arand, safed-arand	Euphorbiaceae	Amphig Trop	300-1200	Sd, La,	Anthelmintic, rheumatism, skin diseases, purgative, pneumonia, pleurisy, chest congestion, cough, inflammation, burns, cancer, abortifacient, syphilis toothbrush
<i>Mallotus philippensis</i> Muell.-Arg.	Rohni, Sindur, Ruin	Euphorbiaceae	As et Austr Trop	300-1800	Fr, Sd, Rt	Anthelmintic, blisters, rheumatism, boils, dysentery skin diseases, snake bite, tonic for pregnant women, ulcer, vermifuge, constipation
<i>Sapium sebiferum</i> Roxb.	Pahari-Shisham	Euphorbiaceae	Reg. trop.	300-600	Fr	Purgative and emetic
<i>Butea monosperma</i> (Lamk.) Taub.	Dhak, Tesu	Fabaceae	Ind Or. Burma	400-1200	Fl, Sd	Anthelmintic, antiseptic, blood purifier, tonic and indigestion
<i>Dalbergia sissoo</i> Roxb.	Sisham	Fabaceae	Ind Or. Afghan	350-1400	Lv, St	Gonorrhoea, headache, dysentery, leprosy and skin diseases
<i>Ougeinia dalbergioides</i> (Roxb.) Hochr.	Sandan,	Fabaceae	Ind Or.	400-1500	St, Lv	Bronchitis, cholera, diarrhoea, asthma and dysentery
<i>Casearia elliptica</i> Willd	Chila, Chillak	Flacourtiaceae	As. trop.; Austr.	400-1000	Lv, Bk, Fr	Anthelmintic, wounds, blisters, stomach ache, sprain, head ache, enlarged scrotum, tonic
<i>Casearia graveolens</i> Dalzell	Chilla, Chillak	Flacourtiaceae	Ind Or.	400-1800	Rt, Bk, Sd	Liver complaint, stomachache
<i>Xylosma longifolia</i> Clos.	Khand-gair, Sialu, Katrai	Flacourtiaceae	Reg. Himal.	450-1200	Bk	Stomachache
<i>Cinnamomum camphora</i> Nees	Kapoor	Lauraceae	China, Japan	400-1000	Gum, oil	Fever, cough, chest pain, diarrhoea, rheumatism, cholera, toothache
<i>Litsea glutinosa</i> (Lour.) Robins.	Singrau	Lauraceae	Reg. Himal.	600-2000	Bk, Lv	Bone fracture
<i>Michelia champaca</i> L.	Champa	Magnoliaceae	Malaya	300-1000	Bk, Rt, Fl	Inflammatory, antifertility, asthma, cholera, bronchitis, menstrual complaints, dysentery, fever, mucus in urine, menorrhoea, sores, ulcer, boils
<i>Kydia calycina</i> Roxb.	Phuilau, Pulao	Malvaceae	Ind Or. Burma	400-1000	Bk, Lv, Rt	Body swellings, body pain, boils, diabetes, febrifuge, increases saliva, inflammation, rheumatism
<i>Azadirachta indica</i> Juss.	Neem, Nimba	Meliaceae	Ind Or.	300-1000	Fr, Lv	Antiseptic, skin diseases, killing lice, diabetes and spermicide

<i>Melia azedarach</i> L.	Dainkan, Bakain	Meliaceae	Reg. Himal.	250-1000	Lv, Fr	Abortifacient, wormicides, antiseptic, rheumatic pain, s diseases
<i>Toona ciliata</i> Roem.	Tun, Toon, Cedrla	Meliaceae	Malaya Austr	300-1000	Bk, Lv	Fever, gastric troubles, dysentery and antiseptic
<i>Albizia procera</i> (Roxb.) Benth.	Karah	Mimosaceae	As Trop Austr	400-800	Sd	Powder used in gonorrhoea
<i>Artocarpus lakoocha</i> Buch-Ham.	Dhau, Barhar	Moraceae	India	500-1000	Sd	Conjunctivitis
<i>Ficus benghalensis</i> L.	Barhad,	Moraceae	Ind Or. Afr Trop	500-1200	La, Arial Rt.	Dysentery, sores, boils, diruretic, epilepsy, fever, h ache, hydrocycle, kidney disease, leucorrhoea
<i>Ficus hispida</i> L.f.		Moraceae	As. et. ; Austr. trop.	300-1500	Sd, Fr, Bk, la	Purgative, emetic, galactago ulcer in mouth, facilitate calf-laying
<i>Ficus religiosa</i> L.	Pipal	Moraceae	Ind Or.	500-1600	Fr, Bk	Skin ailment, bronchitis, abortifacient, asthma, carbuncle, cholera, rheumat sores in mounth, toothache, small pox, urinary complair whooping cough, tonic, gonorrhoea, haematostat, sk diseases
<i>Ficus semicordata</i> Buch.-Ham. ex Sm.	Khainu	Moraceae	Ins Selebes	300-1700	Fr, Bk	Leprosy
<i>Morus alba</i> L.	Shahtut, Tutri	Moraceae	As Temp	300-1200	Fr, Bk	Vermicidal, purgative, refrigerent, dyspepsia, sore throat
<i>Careya arborea</i> Roxb.	Kumbhi	Myrtaceae	Ind Or.	400-1000	Lv, Bk, Fl, Fr	Swelling in face, fistula, ey diseases, fistula, cold and cough, amoebiasis, fish poi seeds said to be poisonous
<i>Psidium guajava</i> L.	Amrood, Mansala	Myrtaceae	Amer Trop	400-1200	Bk, Lv	Throat infections, diarrhoea
<i>Syzygium cumini</i> (L.) Skeels	Jamun, Phalenda	Myrtaceae	As et Austr Trop	400-900	Lv,Sd,Fr, Bk	Anaemia, astringent, colic, cancer, diarrhoea, diabetes, piles, digestive problem
<i>Nyctanthes arbor-tristis</i> L.	Kura, Harsingar	Oleaceae	Ind Or.	300-1500	Lv, Bk, Fr	Bone fracture, cough, fever, dysentery, indigestion, inter injury, malaria, rheumatism scales on scalp, skin diseases
<i>Zizyphus mauritiana</i> Lamk.	Ber, Ajapriya, Badra	Rhamnaceae	Ind Or. Malaya	300-1200	Fr, Lv, Rt	Dysentery, headache, digest rheumatism, cough, wounds fever, eye diseases, diarrho cholera, colic, blood purification, sore, spleen problem and ulcer
<i>Pyrus pashia</i> Buch.-Ham. Ex Don.	Garhmehan, Soh-shur	Rosaceae	Reg. Himal.	400-2600	Lv	Eye problem and digestive disorder
<i>Anthocephalus chinensis</i> (Lamk.) Rich. Ex Walp.	Kadamb	Rubiaceae	China	300-900	Bk, Fr	Skin diseases, pimples, dysentery, sores, fever, cho veterinary foot and mouth diseases, snake bite
<i>Salix tetrasperma</i> Roxb.	Gad-bhains, Jalmalya	Salicaceae	Ind Or.; Malaya	400-1400	Bk	Fever
<i>Schleichera oleosa</i> (Lour.) Oken.	Kusum, Koshamra	Sapindaceae	Ind Or. Malaya	300-1200	Sd, Bk, Fr	Hair tonic, pleurisy, pneum fever, itching, rhematism, sl diseases, wounds, ulcer, paralysis cool, cholera and Syphilis
<i>Grewia tiliaefolia</i> Vahl.		Tiliaceae	As et Afr Trop	500-1200	Rt, Fr, Bk, Lv	

<i>Celtis australis</i> L.	Khairk	Ulmaceae	Ind Or.; As. temp.; Europe	600-2000	Bk	Pimples, contusions, sprain and joint pains
<i>Broussonetia papyrifera</i> Vent.		Urticaceae		250-1000	Fr, Lvs, Bk, Sap, St	Tonic for liver and kidneys blood defficiency, vertigo, impotence, gonorrhoea, dysentery, neurodermatitis, eczema, bee-sting
<i>Premna mucronata</i> Cl.	Akond, Gauntia	Verbenaceae	Ind Or.	300-1200	Bk, Fr, St,	Eczema, throat pain, boils, febrifuge
