Traditional knowledge on medicinal plants

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Traditional knowledge and protection

"Traditional knowledge":

- Its knowledge possessed by indigenous people, in one or more societies
- It could be in one or more forms, including, but not limited to, art, dance and music, medicines and folk remedies, folk culture, biodiversity, knowledge
- Protection of plant varieties, handicrafts, designs, literature.

"Indigenous people":

• Refers to people who characteristically exist under conditions of severe disadvantage relative to others within the states constructed around them.

Traditional knowledge in the form of art, music, or folklore, can be developed into certain form that can be understandable to the rest of the world.

- These traditional intellectual property needed to be recognized internationally.
- It can be done via patents; copyrights; trademarks; geographical indications; protection of undisclosed information; layout designs of integrated circuits; industrial designs.

Jammu & Himachal Pradesh Uttarakhand Haryana Arunachal Prades DELHI Sikkim Uttar Pradesh Jaipur . Lucknow Rajasthan Bihar Meghalaya Patna Manipur Ahmedabad Jharkhand Tripura,~ izoram Gujarat West Bengal Ranchi Madhya Pradesh Kolkata Raipur. Daman and Diu Orissa Dødra & Negar Maharashtra Bhubaneshwar Hyderabad Andhra Pradesh Goa . Chennai Puducherry Mahe (Podocherry Tamil Nadu Andaman and Nicobar

Traditional knowledge in North-East India: Medicinal plants

Average height from sea level: 7000 metres

North-East India posses around 50% of India's biodiversity

NE-India has around 130 ethnic groups which have different cultures, languages, food habits and traditional knowledge of different medicinal plants

Harbored more than 7500 plant species in this region

The traditional practices in these regions correlate not only medicinal practices but also with food habits, rituals etc.

Justicia adhatoda:

Scientific details:

Species: Justicia adhatoda

Genus: Justicia

Family: Acanthaceae

Structure details:

• Tall green thick shrub

• Leaves oppositely arranged (9-17 cm long and 3-10 cm wide)

• Inflorescence 3-7 cm long with 4-9 cm long peduncle.

Traditional practice:

Local name: Nongmangkha

Indigenous people using the plant as medicine:

Meitei, Meitei-Pangal (Manipur, India)

The plant is used traditionally by local Maiba/Maibis to cure:

Cold and cough, fever, asthma and dysentery.

For medicine: Leaves

For food: Leaves and young inflorescence



Indigenous practices of Justicia adhatoda

Steps of preparing medicine: Part: Leaves

Step 1: Fresh leaves are plucked, cleaned and dried on a banana leave

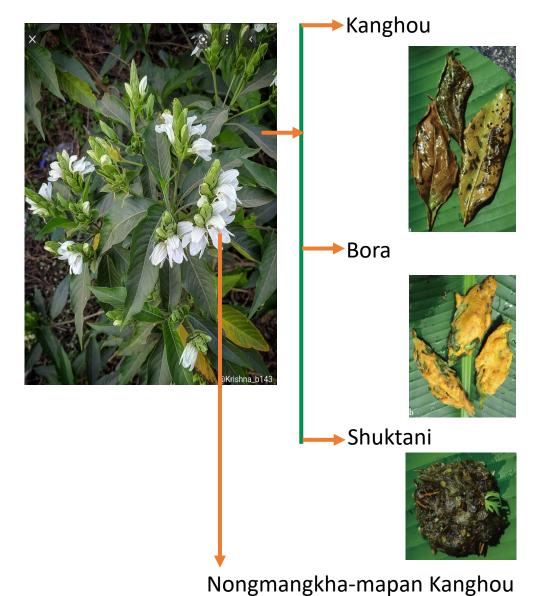


Step 2: Boil on a earthen pot for 20 minutes



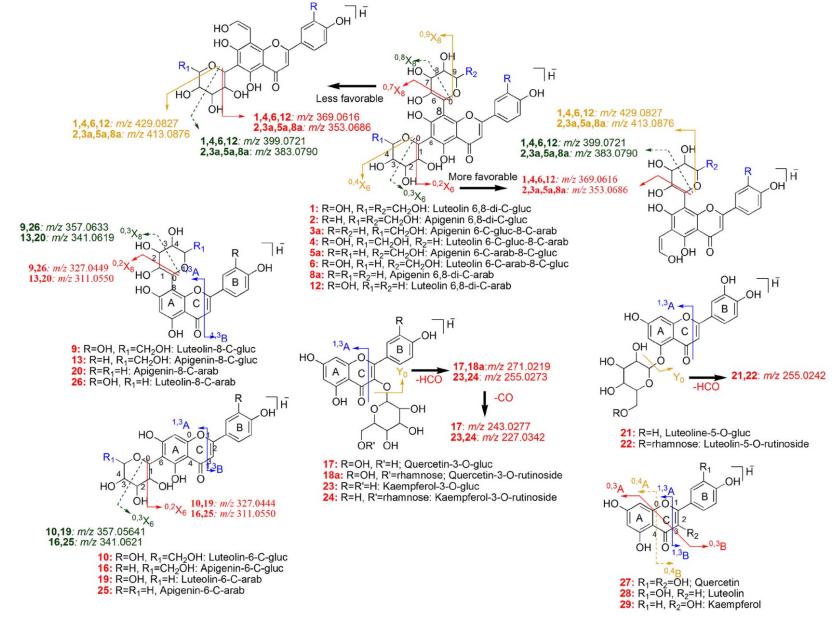
Step 3: Remove the banana leave and inhale the steam 2-3 times for five minutes by the patient





A total of 29 compounds were found in the Justicia adhatoda or Adhatoda vasica:

- Seventeen C-
- Nine O-glycosides
- Three flavonoids



Singh, A.; Kumar, S.; Bajpai, V.; Reddy, T.J.; Rameshkumar, K.B.; Kumar, B. Structural characterization of flavonoid C-and O-glycosides in an extract of Adhatoda vasica leaves by liquid chromatography with quadrupole time-of-flight mass spectrometry. Rapid Commun. Mass Spectrom. 2015, 29, 1095–1106.

Melia azederach Linn:

Vernacular name: Siikhasii

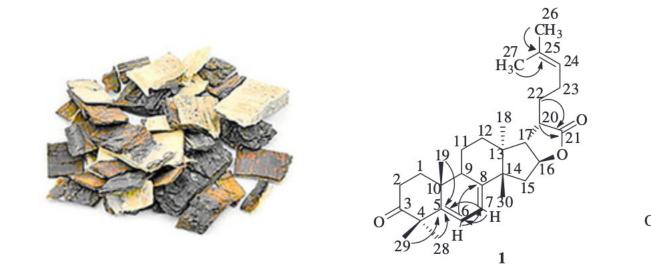
Family: Meliaceae

Part used: Barks

Treatment: Blood pressure, Acidity, Ringworm infection, Diabetes Mode of utilization: A handful of fresh peelings of the endoderm of the bark is crush or grounded and boiled with water and the decoction is taken for treating blood pressure and acidity. The paste of the bark is applied on the skin for ring worm.



HMBC (${}^{1}H \rightarrow {}^{13}C$) and ${}^{1}H - {}^{1}H$ COSY



Compounds against Diabetes

Ge, J. J. et al. Two new tetracyclic triterpenoids from the barks of Melia azedarach. J. Asian Nat. Prod. Res. 18, 20–25 (2016).

Viscum articulatum Burm:

Vernacular name: Otsiibu (Manipur),

Family: Viscaceae

Part used: Root

Treatment: Bone fracture and Sprained

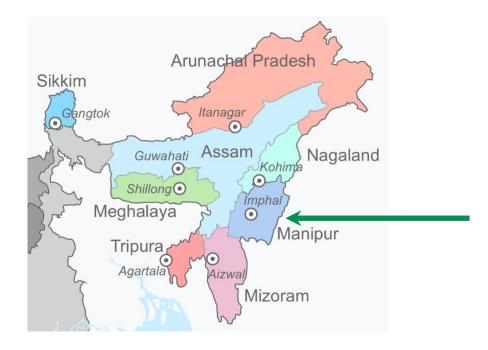
Mode of utilization: The peelings of the epidermal layer of the root are crushed into a paste and apply to the affected part of the body from sprain and bone fracture.



B. P. Patel and P. K. Singh, "Viscum articulatum Burm. f.: a review on its phytochemistry, pharmacology and traditional uses," *Journal of Pharmacy and Pharmacology*, vol. 70, no. 2, pp. 159–177, 2018.

Manipur:

- 1535 species plants
- 400 species are used by majority of people for their primary health care needs.



Lokendrajit, N.; Swapana, N.; Singh, C.D.; Singh, C. Herbal folk medicines used for urinary and calculi/stone cases complaints in Manipur. Int. J. Environ. Biodivers. 2011, 2, 1–5. Deb D.B. 1961. Dicotyledonous plants of Manipur Territory. Bulletin of the Botanical Survey of India 3 (3): 253–350.

| Botanical Name with voucher No. | Family | Vernacular name | Uses |
|---|--------------------------|--|---|
| Bonnaya reprtans Spreng/ LK 4301 | Scrophalariaceae | Lamkihom (M) | The boiled decoction is prescribed by the medicine man in the valley for the kidney and urinary complaints due to stone. |
| Centela asiatica (Linn) Urban /LK 4501 | Umbelliferae | Peruk(M); Khulakhudi (H) Tholkhuri (B) | The plant juice along with honey is prescribed in urinary trouble. |
| Cyperus rotundus Linn/LK 2501 | Cyperaceae | Shembang Kaothum (M) | The decoction of the plant is prescribed in urinary trouble. |
| Desmodium microphyllum Mic/LK 3601 | Papilionaceae | Nuggai Yensil (M) | The decoction of the plant is prescribed by the Chiru tribes for urinary complaints due to stone. |
| Fragaria indica Andr/LK 4001 | Rosaceae | Kakyen khujin laba (M) | The decoction of plant along with sugar is prescribed in urinary complaint by the people in the valley. |
| Helianthus annus Linn/LK 1201 | Asteraceae. | Numitlei (M) Surajmukhi (H&B) | The juice of the fresh leaves is used in urinary trouble and diseases of kidney. |
| Polygoatum multiflorum Allioni/LK 3001 | Liliaceae | Kundalei Agouba Thondaba (M) | The decoction of root is prescribed by local medicine man in kidney and urinary troubles. |
| Rhus succedanea Linn./LK 1301 | Anacardiaceae | Heimang (M) Tammu (Rongmei) | The powders of the fruits mixed with egg are given in kidney trouble, urinary complaint due to the stone. |
| Rotala baccifera Linn/LK 3101 | Lythraceae | Ishingkundo (M) Dad-mari (H&B) | The plant is prescribed in urinary trouble by the people in the valley. |
| Rubus niveus Thumb/LK 4002 | Rosaceae | Heijampat (M) | The decoction of the leaves is useful in urinary complaints, for relaxing uterus muscles. |
| Solanum nigrum Linn/LK 4301 | Solanaceae | Leipungkhanga (M) | The seed is also used in urinary stones. |
| Stephania hernandifolia Walf/LK 3301 | Menispermaceae | Thangga Uriangagangba (M) | The juice of the leaves is given in skin diseases and mixed with honey is good in diarrhoea and urinary trouble by the people in the hills and rural areas. |
| Tagetes erecta Linn/LK 1202 Xanthium strumarium | Asteraceae Asteraceae | Sanalei (M) Hameng Sampakpi (M) | The extract of leaves is prescribed in kidney troubles by the local medicine man. The root decoction is also useful in cancer, urinary stone and purple pains. |
| Actinodaphne angustifolia | Lauraceae | Takara (M); Petarichawa (A) | The decoction of the plant is used in kidney diseases due to stone. |
| Nees/LK 2801 Cissus javana DC./LK 4601 | Vitaceae | Kongouyen Laba (M) | Boiled extract of leaves is considered tonic for curing urinary trouble due to stone |
| Cordia grandis Roxb/LK 1801 | Boragineae | Lamuk (M) | and to cure the burning sensation during urination. Fruits are considered medicine for urinary trouble due to stone. |
| Cuminum cyminum Linn/LK 4502 | Umbelliferae | Jeera (M) | The boiled decoction of the fruits is used in urinary trouble |
| Homonoia riparia Lour/LK 2701 | Euphorbiaceae | Wangchu in Kuki Tuipui-sulhla (A) | The decoction of the root is given in piles, stone in the urinary bladder,gonorrhoea, syphilis and chest pain by the tribal in the hills. |
| Pratia nummularia Kurz/LK 2401 | Companulaceae | Kihomman (M) ; Chaokathi (Mizo) | The plants are boiled along with water and the decoction is prescribed in kidney trouble due to stones. |
| Wedelia chinensis (Osb.) Merril/LK 1204 | Asteraceae | Chinlengbi (M) | The decoction of the plant is used as a medicine for curing urinary trouble due to stone. |
| Cissus adnata Roxb/LK 4702 | Vitaceae | Kongouyen –laba (M) | Boil decoction of the leaves and roots is given in kidney problem due to stone. |
| Aeschynomene indica | Papilionaceae | Chigonglei (M); Laugauni | The young tender leaves taken as salad cures stone at urinary tract. The boil extract |
| Linn./LK 3602 Ananas comosus (Linn.) | Bromeliaceae | (H); Kihom (M) | of the leaves with black pepper is prescribed in painful urination Extract of the ripe fruit with that of Averrhoa carambola in equal proportion mixed |
| Merrill/LK 1901 | | () | with common salt is kept overnight and prescribed against bronchitis, asthma and urinary trouble due to stone. |
| Cinnamomum glaucescens Habd- Mazz./LK 2802 | Lauraceae | Vahmin (Kuki) | The powder of the bark is used in kidney trouble. |
| Averrhoa caramola Linn./LK 1401 | Averrhoaceae | Heinou-Jom (M) Kamranga (B) | The extract of the fruit mixed with the extract of Ananas comosus along with a little common salt is prescribed after a fortnight in asthma, bronchitis, and urinary trouble due to stone. Also the juice of the fruit mixed with the fruit juice of Cirus latipes along with a little salt honey is prescribed as an excellent remedy from stone problem in the urinary tract. |
| Berberis aristata DC /LK 2001 | Berberidaceae | Pambi napu (M) | The boiled decoction of the leaves is prescribed in urinary tract infection and kidney troubles |
| Celosia argentea Linn /LK 1301 | Amaranthaceae | Haorei-angouba (M) | Boiled extract of the root with sugar is given in urinary tract and kidney stone. |
| Celtis australis Linn/LK 4601 | Urticaceae | Heikreng (M) | Boiled decoction of the leaves is given against stone in the urinary tract, in high blood pressure, jaundice, stomach complaints, liver and lugs problem. Boiled extract of the leaves with that of Plantago erosa is given in difficult urination and the same with Fragaria indica is also given in stone cases. |
| Hibiscus sabdariffa Linn/LK 3201 | Malvaceae | Silot sougri (M) Lal-ambari (H) Chukar (B) | Decoction of leaves in used in urinary troubles, especially due to stone in kidney. The boiled extract of the leaves along with crab is given to the patients having stone in urinary bladder or kidney. Upupaepops longirostris (Sangairaba is prescribed in urinary bladder or kidney stones. |
| Allium odorosum Linn/LK 3001 | Liliaceae | Maroi nakuppi (M) | Boil – extract of leaves is given in painful urination especially urinary tract infections due to stone. |
| Citrus latipes (Swingle) Tanaka/LK 4101 | Rutaceae | Heiribob (M) | The fruit extract mixed with that of Averrhoa carambola and a pinch of salt and honey is prescribed in urinary tract and kidney stone |
| Abbus precatorius/ LK 3202 Linn.(Jequerity) | Malvaceae | Chaning angouba(M) Gunchi(H); Kunch(B) | Aqueous extract is used for treatment of kidney stones |
| Duchesnea indica (Andr.) Focke/LK 4003 | Rosaceae | Heirongkak – laba (M) | Decoction of plants with sugar is used for treatment of stone case and other urinary infection; the same with Centella asiatica is also given in stone cases. |
| Emblica officinalis Gaertn/LK 2702 | Euphorbiaceae | Heikru (M) | Extract of the fruits with little lime is given against stone in the urinary tract and kidney. |
| Hedychium coronarium Koening/LK 4801 | Zingiberaceae | Takhellei-anganganba (M) | Boiled extract of rhizome is given in irregular menstruation, pile bleeding and stone in urinary tract. |
| Mallotus philippensis (Lan) Muell. Arg./LK 2703 | Euphorbiaceae | Ureirom laba (M) | Boil decoction of the bark with sugar is given in urinary tract stone problem. |
| Myriogyne minuta Less /LK | Asteraceae | Hakthi khanbi (M) | Extract of the plants mixed in equal proportion with the juice of sugarcane is given |

Meghalaya:

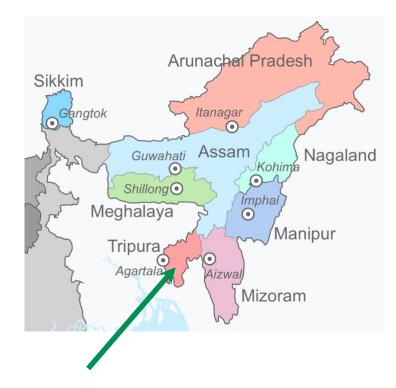
- 850 medicinal plants
- 377 species are used by majority of people for their primary health care needs.



| Scientific name | Local name | Family | Parts used | Application |
|--|---------------|------------------|---|---|
| Aegle marmelos (Linn.) Corr | Sempri | Rutaceae | Leaves, Bark | Gastric problem, dysentery |
| Allbizia odoratissima (Linn. f.) Benth | Siso | Fabaceae | Bark | Headache, dizziness |
| Alstonia scholaris (Linn.) R. Br. | Sokson | Apocynaceae | Leaves, Bark | Fever, epilepsy and respiratory diseases |
| Anacardium occidentale Linn. | Cashewnut | Anacardiaceae | Bark, Fruit and Leaves | Inflammation, urinary disorder |
| Annona squamosa L. | Ata bol | Anonaceae | Bark, Leaves, Roots, Unripe fruits and seed | Indigestion |
| Antidesma acidum Retz. | Arobakh | Euphorbiaceae | Leaves | Blood pressure |
| Aristolochia clematitis L. | Esamul | Aristolochiaceae | Leaves and roots | Snake bite |
| Artocarpus gomezianus Wall. Ex.Trecul | Armu | Moraceae | Bark | Headache, dizziness |
| Bauhinia variegata L. | Megong | Fabaceae | Leaves | Blood pressure |
| Bombax ceiba L. | Bolchu | Bombacaceae | Leaves | Diarrhoea |
| Bridelia retusa Spreng. | Khasi | Euphorbiaceae | Bark, fruit juice | Wound healing, earache |
| Calotropis procera (Linn.) R. Br. | Memangtebrong | Apocynaceae | Bark, Leaves, Roots, Latex and Flower | Paralysis, leprosy, skin diseases and cough |
| Carica papaya L. | Modipol | Caricaceae | Root, latex and seed | Dogbite, earache |
| Cassia fistula L. | Snaru | Fabaceae | Bark | Stomach pain |
| Cestrum nocturnum L. | Gamini | Solanaceae | Bark, leaves | Toothache, headache |
| Cinnamomum tamala Fr. Nees | Tejpata | Lauraceae | Bark | Urinary disorder |
| Cissus quadrangularis L. | Haljora | Vitaceae | Whole plant | Sprain and piles |
| Clerodendrum glandulosum Coleb. | Dongam | Verbenaceae | Leaves | Blood pressure |
| Crataeva nurvala Buch. Ham. | Jongchia | Oleaceae | Bark, leaves | Skin diseases, toothache |
| Cuscuta reflexa.Roxb, | Dodimit | Convolvulaceae | Leafless stem | Jaundice, headache |
| Crypteronia paniculata Blume | Mosuginsep | Crypteroniaceae | Leaves | Snake bite and wound Healing |
| Derris robusta (Roxb. Ex DC.) Benth. | Kakharu | Fabaceae | Leaves | Headache |

Tripura:

- 379 species plants
- 53 species are medicinal plants which are used by majority of people for their primary health care needs.



Debbarma M, Pala NA, Kumar M, Bussmann RW (2017) Traditional knowledge of medicinal plants in tribes of Tripura in northeast, India. Afr J Tradit Complement Altern Med 14(4):156.

| Scientific name | Local name | Family | Parts used | Application |
|---------------------------------------|-------------------|------------------|--|---|
| Aegle marmelos Correa | Bael | Rutaceae | Leaves, gum from fruit, ripe fruit | Leaves pounded to paste with equal quantities of leaves of <i>Cajanus cajan</i> and a little water and 1 cupful extract taken in the morning in empty stomach in combination with molasses in jaundice. Fruit pulp as medicine and for prevention of dysentery. |
| Ageratum conyzoides Linn. | Shyamtulsi | Asteraceae | Leaves and twigs | Fresh leaf extract used as anti hemorrhagic. Juice used as an expectorant. |
| Ananas comosus (L.) Merrill | Gihom | Bromeliaceae | Leaves | Leaf extract with milk and sugar candy in rheumatic swellings. Extract of leaf base is taken 1 teaspoon thrice daily in diarrhoea. |
| Azadirachta indica A. Juss. | Neem | Meliaceae | Leaves and stem bark | Leaves boiled in water to bathe patient with malaria and chicken pox. Smoke produced by burning leaves is used as mosquito repellent. |
| Cajanus cajan (L.) Millsp. | Arail | Fabaceae | Leaves and twigs | Mature seeds are cooked as a pulse and given in weakness. Leaf and twig paste is applied throughout the body during jaundice. |
| Carica papaya L. | Paypay | Caricaceae | Root and fruit | Unripe fruits are cooked as a vegetable, ripe fruit, eaten raw. Fruits are considered to be stomachic. |
| Centella asiatica (Linn.) Urban | Thunmankuni | Apiaceae | Leaves and entire shoot | Eaten either as paste or cooked as a vegetable for dysentery and diarrhea. |
| Clerodendrum viscosum Vent. | Bhati pataa | Verbenaceae | Leaves and root | Extract is used as expectorant. Decoction of the leaves is used to check high blood pressure. Root extract is as febrifuge. |
| Cynodon dactylon (L.) Persoon | Doob pataa | Poaceae | Shoot and roots | Shoot extract is anti-haemorrhagic. |
| Euphorbia nerifolia Linn. | Sairapal | Euphorbiaceae | Leaves | Vapour is inhaled as medicine during fever. Oven heated leaves are placed on the chest to control cough |
| Jatropha curcas Linn. | Girogaachh | Euphorbiaceae | Branches | The sap is applied locally in gum infections. Raw leaves are used in high blood pressure. |
| Kaempferia rotunda Linn. | Bhojoraphul | Zingiberaceae | Flower and rhizome | Flower decoction is used to bathe patient with skin infections. Aqueous decoction of rhizome used in jaundice. |
| Kalanchoe pinnata Pers. | Khurajot | Crassulaceae | Leaves | Chewed raw with sugar to control dysentery and diarrhoea. Juice is administered in jaundice. Leaf paste is applied on skin infections and pimples. |
| Leucas aspera Spreng. | Doron pushpa | Laminaceae | Leaves and twigs | Extract is taken for cough and jaundice. |
| Marsilea quadrifolia Linn. | Susni | Marsileaceae | Leaves | Used in jaundice, brain tonic |
| Mimosa pudica Linn. | Dugjat lajari | Mimosaceae | Entire plant | Leaf paste is applied on the acne and pimples. Extract is used in equal proportion by weight along with bark extract of <i>Urena lobata</i> as a combination medicine against jaundice. |
| Momordica charantia Linn | Gangrauk | Cucurbitaceae | Fruits and twigs | Fruits is cooked as a vegetable and considered to be anthelmintic. Extract of twigs is used against dyspepsia. |
| Musa paradisiaca Roxb | Mot | Musaceae | Flower and stolon | Juice of flowers is used in dysmenorrhoea and menorrhagia. Extract of the stolon is administered in dysentery and diarrhoea. |
| Oroxylum indicum (L.) Vent. | Taukharun | Bignoniaceae | Stem bark and immature fruits | Soup is used as stomachic and anthelmintic. |
| Ocimum sanctum L. | Tulsi | Laminaceae | Leaves | Extract is used as expectorant and jaundice |
| Phlogacanthus thyrsiflorus | Basokpata | Acanthaceae | Leaves | Leaf juice is used as an expectorant. |
| Psidium guajava L. | Sapri | Myrtaceae | twigs | Young twigs is chewed in empty stomach every morning in dysentery and diarrhoea. Fruit is used in anaemia. |
| Scoparia dulcis L. | Naipungchewk | Scrophulariaceae | Leaves and twigs | Anthelmintic and used in jaundice. |
| Spilanthes paniculata Wallich ex. DC. | Ansha | Asteraceae | Leaves | Boiled leaves are used with rice in stomach troubles and liver problems. |
| Terminalia chebula Retzius | Bukhala buthai | Combretaceae | Dried fruit | Extract is used in stomachic and jaundice |

Sikkim:

- 420 species plants
- 51 species are medicinal plants which are used by majority of people for their primary health care needs.



U. Chettri and S. Kumari. A list of medicinally important plants of Sikkim Himalayan region, India. J. Med. Plants Stud. 9(4):24-27 (2021)

| Lageri Bojbo Roots and Rhizome Rhizome Rhizome Rhizome Rhizome sued for equal, cold and fever. Roots used for jaundice, abdominal pain and also for sanke bits ocile."9. 3. Hymenodicryon sp. Latikram Bark Bark Bark used for fever, tumors "oll and Hemorrhoids (Piles) ^[11] 4. Hyperium sp. Urila Seed Act as antideptosant ^[11] 5. Kaempferia rourela Bhui champa Seed Act as antideptosant ^[11] 6. Leave amarophylla Bulyetta Seed, Root and Leaves Leaves used for gastric tumor, body as head sexual disability ^[10] 7. Litsea citrate Silimur Seed, Root and Leaves Leaves used for gastric tumor, body as head sexual disability ^[10] 8. Lycopodium clavatum Nagbeli Roots and Leaves Used gainst future, body as the and sexual disability ^[10] 10. Mesua ferrea Nageevant Root Used against malaria "Jan ditypoid fever ^[10] 11. Marsdenia roylie Bahumi Lahara Katusi Ratusi Root Used against malaria "Jan ditypoid fever ^[10] 12. Myrica escellenta Katusi Ratusi Pruits Seed, Root and Leaves Used gainst malaria "Jan ditypoid fever ^[10] 13. Nardostuckys jatamania DC. Jatamanis Harita Pruits Seed Seed Seed Seed Seed Seed Seed See | S. No. | Botanical Name (Family) | Local name | Parts Used | Ethnomedicinal uses |
|--|--------|----------------------------|------------------|-----------------------------|---|
| 3. Hymondictyon sp. 4. Hypericum sp. 5. Kampferia rouncel Bhui champa 5. Kampferia rouncel Bhui champa 6. Leea macrophylla 6. Leea macrophylla 7. Lista citrate 6. Leea macrophylla 8. Lycopodium clavatum 8. Lycopodium clavatum 8. Lycopodium clavatum 8. Lycopodium clavatum 8. Bakaina 8. Roots and Leaves 8. Leaves used for gastric tumor, body ache and sexual disability 180 8. Lycopodium clavatum 8. Bakaina 8. Roots and Leaves 8. Leaves used for gastric tumor, body ache and sexual disability 180 8. Lycopodium clavatum 8. Bakaina 8. Roots 10. Messua ferrea 8. Bakaina 8. Root 10. Messua ferrea 8. Bakaina 10. Messua ferrea 11. Mardona roylie 8. Judicham roylie 12. Myrica esculanta 13. Nardostavky jatamansi OL. Jatamansi 14. Podaphyllam hexandrum 15. Parata pseudopinsnen 16. Perei biaurita 17. Podapoma viviproum 18. Roots 18. Parata pseudopinsnen 18. Roots 18. Parata pseudopinsnen 18. Roots 18. Parata pseudopinsnen 19. Roots used to severa used pseudopinsnen 19. Perbi biaurita 19. Podaphyllam hexandrum 19. Rootsulla Root 19. Perbi biaurita 19. Podaphyllam hexandrum 19. Rootsulla Root 19. Perbi biaurita 19. Podaphyllam hexandrum 19. Root 19. Root Used for bacterial infection, fracture bones, stomachache etc. 19. Podaphyllam hexandrum 19. Root 19. Root Used samitalisation, fracture bones, stomachache etc. 19. Robododendron anthopon 19. Root 19. Robododendron anthopon 19. Root 19. Robododendron anthopon 19. Robos 19. Robododendron anth | 1. | Abrus Precatorius | Lalgeri | | pain and also for snake bite remedy [8]. |
| 4. Hyperican sp. Urila Seed Act as antidepressant [10] anti-vante [11] anti-vante [12] anti-vante [12] anti-vante [13] anti-va | 2. | Acorus calamus | Bojho | Roots and Rhizome | colic [9]. |
| Seed, Root and Leaves used for gastric tumor, body ache and sexual disability. 16 | 3. | Hymenodictyon sp. | Latikaran | Bark | Bark used for fever, tumors [10] and Hemorrhoids (Piles) [11] |
| Leen macrophylla Bulyettra Seed, Root and Leaves Leaves used for gastric tumor, body ache and sexual disability. 19 | 4. | Hypericum sp. | Urila | Seed | |
| 7. Lissa cirrate Siltimur Fruits Used for stomachache, gastrometeritis, diabetes and traumatic injuny. (17) 9. Melia azadirach Bakaina Root Used against malaria industry and thypoid fever [30] 10. Messa ferrea Nagesewari Bark Used a anityretic, cardiotonic and disurctic agent [31] 11. Marsdena roylie Bahaini Lahari Entire plant Stem used for paralysis, joint pairs and for woon dealing [33] 13. Nardostachys jutamansi DC. Jatamansi Bankantari Paste of bark used for paralysis, joint pairs and for woon dealing [33] 14. Podophyllun hexandrum Bankankari Bruit, Root, whole plants Used to treat hysteria, seizures and epilepsy [34] 15. Panax pseudoginiseng Mangan Roots Used against Dysepsia, asthma and palpitation [36] 16. Pieri bianrita Hando uses Stem Used against Dysepsia, asthma and palpitation [36] 18. Rubus cilipicus Aiselu Fruit Root, whole plant Used against Dysepsia, asthma and palpitation [36] 19. Rume repaid and traumatical and proportion [36] Wised to treat play byseria, asthma and palpitation [36] <td< td=""><td>5.</td><td>Kaempferia roturela</td><td>Bhui champa</td><td>Tubers</td><td>Act as bone settlers [15]</td></td<> | 5. | Kaempferia roturela | Bhui champa | Tubers | Act as bone settlers [15] |
| Section Sect | 6. | Leea macrophylla | Bulyettra | Seed, Root and Leaves | Leaves used for gastric tumor, body ache and sexual disability [16] |
| Section Sect | 7. | Litsea citrate | Siltimur | Fruits | Used for stomachache, gastroenteritis, diabetes and traumatic injury [17] |
| 10. Mesua ferrea Nageeswari Bark Used as antipyretic, cardiotonic and diuretic agent [21] | 8. | Lycopodium clavatum | Nagbeli | Roots and Leaves | Used against kidney stones and urinary tract infections [18] |
| 11. Marsdenia roylie Baahuni Lahara Entire plant Stem julice for peptic and gastric ulcers [22] | 9. | Melia azadirach | Bakaina | Root | Used against malaria [19] and thypoid fever [20] |
| 12. Myrica esculenta Katusi Bark Paste of bark used for paralysis, joint pains and for wound healing [23] 13. Nardasstenys jatamansi DC. Jatamansi Jatam | 10. | Mesua ferrea | Nageeswari | Bark | |
| Nardostachys jatamansi DC. Jatamansi Pritt, Root, whole plant including roots Used to treat hysteria, seizures and epilepsy [34] | 11. | Marsdenia roylie | Baahuni Lahara | Entire plant | Stem juice for peptic and gastric ulcers [22] |
| Nardostachys jatamansi DC. Jatamansi Pritt, Root, whole plant including roots Used to treat hysteria, seizures and epilepsy [34] | 12. | Myrica esculenta | Katusi | Bark | Paste of bark used for paralysis, joint pains and for wound healing [23] |
| 15. Panax pseudoginseng Mangan Roots Used against Dysperpsia, sathma and palpitation 160 Petri biaurita Thad unew Stem Used against Dysperty and body pain 171 | 13. | Nardostachys jatamansi DC. | Jatamansi | Whole plant including roots | Used to treat hysteria, seizures and epilepsy [24] |
| Thado unew Stem Used against Dysentry and body pain P3 | 14. | Podophyllum hexandrum | Bankankari | Fruit, Root, whole plants | Used for jaundice, liver disorders, syphilis [25] |
| Pobgonum viviparum | 15. | Panax pseudoginseng | Mangan | Roots | Used against Dyspepsia, asthma and palpitation [26] |
| 18. Rubus ellipticus Aiselu Fruit and Roots Used for bacterial infection, fracture bones, stomachache etc 191 19. Rumex nepallensis Halhaley Root Used for treating syphilis, colic ulcer and skin sores 190 20. Rubus semialata Bhakimlo Fruits Used for gastrointestinal and urinary related problems 191 21. Rubia cordifolia Majito Fruits and Root Used to treat inflammation, Haematuria and ulcers related problems 191 22. Rhododendron anthopogon Laligurans Whole plant Used to treat Headache, Rheumatism and Inflammation 193 23. Rhododendron arboreum Laligurans Hole Hole Headache, Rheumatism and Inflammation 193 24. Rauwalfia serpentina Sarpganha Roots Used to cure heart problems and stomach ache 194 25. Selinum tenudolium Bhut Kesh Leaves and Fruit Act as antibacterial, antispasmodic, Insect repellent 195 26. Swertia chiraita Chirata Whole plant Used for liver disorders, gastrointestinal infections and intestinal worms 197 27. Sagindus mukrossi Ritha Fruit Used for liver disorders, gastrointestinal infections and intestinal worms 197 28. Saussurea costus Kapisful, kuth Fruit, Leaves and Root Used as anti-cancer, anti-ulcer and hepatoprotective problems 190 29. Solanum nigrum Kalobehi Fruit, Root and Leaves Used as anti-convulsant and Hepatoprotective problems 190 30. Srephania glabra Taubarkey Root Bulb Used against sathma, analgesia and arthritis 191 31. Xanthoxyllum acanthopodium Bokey timbur Fruit Used against sathma, analgesia and arthritis 191 32. Terminalia balletica Barra Fruit Bark Used in leprosy, blood infections and used as cardiotonic 191 33. Toona ciliata Tooni Flower Bark Used in leprosy, blood infections and used as cardiotonic 191 34. Trichosanthus bracteata Indreyni Fruit root Used as Hoptoprotective and natural contraceptive agent 191 35. Tupistra nutans Nakim | 16. | Pteri biaurita | Thado unew | Stem | Used against Dysentry and body pain [27] |
| 18. Rubus ellipticus Aiselu Fruit and Roots Used for bacterial infection, fracture bones, stomachache etc 191 19. Rumex nepallensis Halhaley Root Used for treating syphilis, colic ulcer and skin sores 190 20. Rubus semialata Bhakimlo Fruits Used for gastrointestinal and urinary related problems 191 21. Rubia cordifolia Majito Fruits and Root Used to treat inflammation, Haematuria and ulcers related problems 191 22. Rhododendron anthopogon Laligurans Whole plant Used to treat Headache, Rheumatism and Inflammation 193 23. Rhododendron arboreum Laligurans Hole Hole Headache, Rheumatism and Inflammation 193 24. Rauwalfia serpentina Sarpganha Roots Used to cure heart problems and stomach ache 194 25. Selinum tenudolium Bhut Kesh Leaves and Fruit Act as antibacterial, antispasmodic, Insect repellent 195 26. Swertia chiraita Chirata Whole plant Used for liver disorders, gastrointestinal infections and intestinal worms 197 27. Sagindus mukrossi Ritha Fruit Used for liver disorders, gastrointestinal infections and intestinal worms 197 28. Saussurea costus Kapisful, kuth Fruit, Leaves and Root Used as anti-cancer, anti-ulcer and hepatoprotective problems 190 29. Solanum nigrum Kalobehi Fruit, Root and Leaves Used as anti-convulsant and Hepatoprotective problems 190 30. Srephania glabra Taubarkey Root Bulb Used against sathma, analgesia and arthritis 191 31. Xanthoxyllum acanthopodium Bokey timbur Fruit Used against sathma, analgesia and arthritis 191 32. Terminalia balletica Barra Fruit Bark Used in leprosy, blood infections and used as cardiotonic 191 33. Toona ciliata Tooni Flower Bark Used in leprosy, blood infections and used as cardiotonic 191 34. Trichosanthus bracteata Indreyni Fruit root Used as Hoptoprotective and natural contraceptive agent 191 35. Tupistra nutans Nakim | 17. | Polygonum viviparum | Ratnaula | Root | Used as antidiabetic, anti-inflammatory, and antitumor agent [28] |
| Rumex nepallensis Halhaley Root Used for treating syphilis, colic ulcer and skin sores 109 | 18. | Rubus ellipticus | Aiselu | Fruit and Roots | Used for bacterial infection, fracture bones, stomachache etc [29] |
| Pruits Used for gastrointestinal and urinary related problems State | 19. | Rumex nepallensis | Halhaley | Root | Used for treating syphilis, colic ulcer and skin sores [30] |
| Supparision | 20. | Rhus semialata | Bhakimlo | Fruits | |
| Supparision | 21. | Rubia cordifolia | Majito | Fruits and Root | Used to treat inflammation, Haematuria and ulcers related problems [32] |
| Rauwulfia serpentina Sarpganha Roots Used to cure high blood pressure, sleep disorder and mental agitation Sister | 22. | Rhododendron anthopogon | Sunpati | Whole plant | |
| Selinum tenuifolium Bhut Kesh Leaves and Fruit Act as antibacterial, antispasmodic, Insect repellent Selinum tenuifolium Chiraita Whole plant Used for liver disorders, gastrointestinal infections and intestinal worms Selinum tenuifolium Used for excessive salivation, migranes and chlorosis Selinum tenuifolium Used for excessive salivation, migranes and chlorosis Selinum tenuifolium Used for excessive salivation, migranes and chlorosis Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used against activities Used in hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and converted Selinum tenuifolium Selinum tenuifolium Used as anti-cancer, anti-ulcer and converted Selinum tenuifolium Selinum tenuifolium Selinum tenuifolium Selinum tenuifolium Selinum tenuifolium Used as anti-cancer, anti-ulcer and converted Selinum tenuifoli | 23. | Rhododendron arboreum | Laligurans | Flowers and young leaves | Used to cure heart problems and stomach ache [34] |
| Selinum tenuifolium Bhut Kesh Leaves and Fruit Act as antibacterial, antispasmodic, Insect repellent Selinum tenuifolium Chiraita Whole plant Used for liver disorders, gastrointestinal infections and intestinal worms Selinum tenuifolium Used for excessive salivation, migranes and chlorosis Selinum tenuifolium Used for excessive salivation, migranes and chlorosis Selinum tenuifolium Used for excessive salivation, migranes and chlorosis Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective problems Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and hepatoprotective activities Selinum tenuifolium Used against activities Used in hepatoprotective activities Selinum tenuifolium Used as anti-cancer, anti-ulcer and converted Selinum tenuifolium Selinum tenuifolium Used as anti-cancer, anti-ulcer and converted Selinum tenuifolium Selinum tenuifolium Selinum tenuifolium Selinum tenuifolium Selinum tenuifolium Used as anti-cancer, anti-ulcer and converted Selinum tenuifoli | 24. | Rauwalfia serpentina | Sarpganha | Roots | Used to cure high blood pressure, sleep disorder and mental agitation [35] |
| 26. Swertia chiraita Chiraita Whole plant Used for liver disorders, gastrointestinal infections and intestinal worms [37] 27. Sapindus mukrosssi Ritha Fruit 28. Saussurea costus Kapisful, Kuth Fruit, Leaves and Root Used as anti-cancer, anti-ulcer and hepatoprotective activities [39] 29. Solanum nigrum Kalobehi Fruit, Root and Leaves Used as anti-cancer, anti-ulcer and hepatoprotective activities [39] 30. Stephania glabra Taubarkey Root Bulb Used against athma, analgesia and arthritis [41] 31. Xanthoxyllum acanthopodium Bokey timbur Fruit Used against bleeding of gums and toothache [42] 32. Terminalia ballerica Barra Fruit Bark Used in hepatitis, piles, bronchitis, asthma and cough [43] 33. Toona ciliata Tooni Flower Bark Used in leprosy, blood infections and used as cardiotonic [44] 34. Trichosanthus bracteata Indreyni Fruit root Used as Anti- diabetic and also prevents anemia and osteoporosis [46] 35. Tupistra nutans Nakima Flower Used as Anti- diabetic and also prevents anemia and osteoporosis [46] 36. Nephrolepis cordifolia Pani-amla Tubers Used as Hepatoprotective and natural contraceptive agent [47] 37. Urtica dioca Sisnu Whole plant Used as Blod builder, anti-hemorrhagic and diuretic agent [48] 38. Viscum articulatum Harchur Whole plant Used against arteriosclerosis, arthritis and settling of fracture bones [49] 39. Valariena jatamansi Nakali jatamansi Root Used in blackening of hairs and to remove foul smell due to tootache [59] 40. Woodfordia fruticosa Dhayeroo Flower, Bark Used for cold cough and hypertension [53] 41. Xanthoxyllum allatum Bokey timbur Fruits Used against dysentery, bowel complaints and haematuria [51] 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension [53] 43. Picrorhiza kurooa Kutki Roots Used in blackening of hairs and to remove foul smell due to tootache [59] 44. Abies wabbiana Gobre salla Leaves and Gum Used against ough, Indigestion, unmor and bronchitis [59] 45. Asparagus racensous Kurilo Tuberous Used in Indigestion, unmor and bronchitis [59] 46. | 25. | Selinum tenuifolium | Bhut Kesh | Leaves and Fruit | Act as antibacterial, antispasmodic, Insect repellent [36] |
| Sapindus mukrosssi Ritha Fruits Used for excessive salivation, migranes and chlorosis Sis 28. Saussurea costus Kapisful, Kuth Fruit, Root and Leaves Used as anti-cancer, anti-ulcer and hepatoprotective activities Sis 29. Solanum nigrum Kalobehi Fruit, Root and Leaves Used as anti-cancer, anti-ulcer and hepatoprotective problems 40 30. Stephania glabra Taubarkey Root Bulb Used against asthma, analgesia and arthritis 41 31. Xanthoxyllum acanthopodium Bokey timbur Fruit Used against bleeding of gums and toothache 42 32. Terminalia ballerica Barra Fruit Bark Used in hepatitis, piles, bronchitis, asthma and cough 43 33. Toona ciliata Tooni Flower Bark Used in hepatitis, piles, bronchitis, asthma and cough 43 34. Trichosanthus bracteata Indreyni Fruit root Used in hepatitis, piles, bronchitis, asthma and cough 43 35. Tupistra nutans Nakima Flower Used as Anti-diabetic and also prevents anemia and osteoporosis 46 36. Nephrolepis cordifolia Pani-amla Tubers Used as Hepatoprotective and natural contraceptive agent 43 37. Utrica dioca Sisnu Whole plant Used as bllod builder, anti-hemorrhagic and diuretic agent 44 38. Viscum articulatum Harchur Whole plant Used against arteriosclerosis, arthritis and settling of fracture bones 40 40. Woodfordia fruticosa Dhayeroo Flower, Bark Used against dysentery, bowel complaints and haematuria 51 41. Xanthoxyllum allatum Bokey timbur Fruits Used as anti-diabetic agent 52 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension 53 43. Picrorhiza kurooa Kutki Roots Used against cough, Indigestion and tuberculosis 56 44. Abies wabbiana Gobre salla Leaves and Gum Used against inflammation and peptic ulcer 57 45. Asparagus racemosus Kurilo Tuberous Used for liver protection, gastritis and vination tract infection 59 | 26. | Swertia chiraita | | Whole plant | Used for liver disorders, gastrointestinal infections and intestinal worms [37] |
| 29. Solanum nigrum Kalobehi Fruit, Root and Leaves Root Bulb Used as anti convulsant and Hepatoprotective problems [40] 30. Stephania glabra Taubarkey Root Bulb Used against asthma, analgesia and arthritis [41] 31. Xanthoxyllum acanthopodium Bokey timbur Fruit Used against bleeding of gums and toothache [42] 32. Terminalia ballerica Barra Fruit Bark Used in hepatitis, piles, bronchitis, asthma and cough [43] 33. Toona ciliata Tooni Flower Bark Used in hepatitis, piles, bronchitis, asthma and cough [44] 34. Trichosanthus bracteata Indreyni Fruit root Used in leprosy, blood infections and used as cardiotonic [44] 35. Tupistra nutans Nakima Flower Used as Anti- diabetic and also prevents anemia and osteoporosis [46] 36. Nephrolepis cordifolia Pani-amla Tubers Used as Hepatoprotective and natural contraceptive agent [47] 37. Urtica dioca Sisnu Whole plant Used as bllod builder, anti-hemorrhagic and diuretic agent [48] 38. Viscum articulatum Harchur Whole plant Used against arteriosclerosis, arthritis and settling of fracture bones [49] 39. Valariena jatamansi Nakali jatamansi Root Used in blackening of hairs and to remove foul smell due to tootache [50] 40. Woodfordia fruticosa Dhayeroo Flower, Bark Used against dysentery, bowel complaints and haematuria [51] 41. Xanthoxyllum allatum Bokey timbur Fruits Used as anti-diabetic agent [52] 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension [53] 43. Picrorhiza kurooa Kutki Roots Used in Indigestion, tumor and bronchitis [56] 44. Abies wabbiana Gobre salla Leaves and Gum Used against cough, Indigestion and tuberculosis [55] 45. Asparagus racemosus Kurilo Tuberous Used in Indigestion, tumor and bronchitis [56] 46. Astilbe rivularis Buriokathi Leaves, Root and Rhizome Used for malarial fever, urticaria and skin disorders [60] 47. Adatoda vasica Asuru Bark, Flower and Root Used for malarial fever, urticaria and skin disorders [60] 48. Aesandra butyraceae Chewi Fruits Used for malarial fever, urticaria and skin disorders [60] | 27. | Sapindus mukrosssi | Ritha | | |
| 29. Solanum nigrum Kalobehi Fruit, Root and Leaves Root Bulb Used as anti convulsant and Hepatoprotective problems [40] 30. Stephania glabra Taubarkey Root Bulb Used against asthma, analgesia and arthritis [41] 31. Xanthoxyllum acanthopodium Bokey timbur Fruit Used against bleeding of gums and toothache [42] 32. Terminalia ballerica Barra Fruit Bark Used in hepatitis, piles, bronchitis, asthma and cough [43] 33. Toona ciliata Tooni Flower Bark Used in hepatitis, piles, bronchitis, asthma and cough [44] 34. Trichosanthus bracteata Indreyni Fruit root Used in leprosy, blood infections and used as cardiotonic [44] 35. Tupistra nutans Nakima Flower Used as Anti- diabetic and also prevents anemia and osteoporosis [46] 36. Nephrolepis cordifolia Pani-amla Tubers Used as Hepatoprotective and natural contraceptive agent [47] 37. Urtica dioca Sisnu Whole plant Used as bllod builder, anti-hemorrhagic and diuretic agent [48] 38. Viscum articulatum Harchur Whole plant Used against arteriosclerosis, arthritis and settling of fracture bones [49] 39. Valariena jatamansi Nakali jatamansi Root Used in blackening of hairs and to remove foul smell due to tootache [50] 40. Woodfordia fruticosa Dhayeroo Flower, Bark Used against dysentery, bowel complaints and haematuria [51] 41. Xanthoxyllum allatum Bokey timbur Fruits Used as anti-diabetic agent [52] 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension [53] 43. Picrorhiza kurooa Kutki Roots Used in Indigestion, tumor and bronchitis [56] 44. Abies wabbiana Gobre salla Leaves and Gum Used against cough, Indigestion and tuberculosis [55] 45. Asparagus racemosus Kurilo Tuberous Used in Indigestion, tumor and bronchitis [56] 46. Astilbe rivularis Buriokathi Leaves, Root and Rhizome Used for malarial fever, urticaria and skin disorders [60] 47. Adatoda vasica Asuru Bark, Flower and Root Used for malarial fever, urticaria and skin disorders [60] 48. Aesandra butyraceae Chewi Fruits Used for malarial fever, urticaria and skin disorders [60] | 28. | Saussurea costus | Kapisful, Kuth | Fruit, Leaves and Root | Used as anti- cancer, anti-ulcer and hepatoprotective activities [39] |
| 30. Stephania glabra Taubarkey Root Bulb Used against asthma, analgesia and arthritis 41 31. Xanthoxyllum acanthopodium Bokey timbur Fruit Used against bleeding of gums and toothache 42 32. Terminalia ballerica Barra Fruit Bark Used in hepatitis, piles, bronchitis, asthma and cough 43 33. Toona ciliata Tooni Flower Bark Used in hepatitis, piles, bronchitis, asthma and cough 43 34. Trichosanthus bracteata Indreyni Fruit root Used in hepatitis, piles, bronchitis, asthma and cough 43 34. Trichosanthus bracteata Indreyni Fruit root Used in hepatitis, piles, bronchitis, asthma and cough 43 34. Trichosanthus bracteata Indreyni Fruit root Used in hepatitis, piles, bronchitis, asthma and cough 43 34. Trichosanthus bracteata Indreyni Fruit root Used and hepatitis, piles, bronchitis, asthma and cough 43 34. Trichosanthus bracteata Indreyni Fruit root Used as Anti- diabetic and also prevents anemia and osteoporosis 46 Nephrolepis cordifolia Pani-amla Tubers Used as Hepatoprotective and natural contraceptive agent 47 37. Urica dioca Sisnu Whole plant Used as bllod builder, anti-hemorrhagic and diuretic agent 48 38. Viscum articulatum Harchur Whole plant Used against arteriosclerosis, arthritis and settling of fracture bones 49 Valariena jatamansi Root Used in blackening of hairs and to remove foul smell due to tootache 50 Used against dysentery, bowel complaints and haematuria 51 Used against dysentery, bowel complaints and haematuria 51 Used as anti-diabetic agent 52 Used as anti-diabetic agent 53 Used as anti-dia | 29. | Solanum nigrum | Kalobehi | Fruit, Root and Leaves | |
| 31. Xanthoxyllum acanthopodium 32. Terminalia ballerica 33. Toona ciliata 34. Tichosanthus bracteata 35. Tupistra nutans 36. Nephrolepis cordifolia 37. Urtica dioca 38. Viscum articulatum 39. Ursed in heptotitis, piles, bronchitis, asthma and cough [43] 39. Urtica dioca 30. Tupistra nutans 31. Tupistra nutans 32. Tupistra nutans 33. Tupistra nutans 34. Trichosanthus bracteata 35. Tupistra nutans 36. Nephrolepis cordifolia 37. Urtica dioca 38. Viscum articulatum 39. Valariena jatamansi 30. Tupistra nutans 30. Nakhii jatamansi 31. Urtica dioca 32. Tupistra nutans 33. Tupistra nutans 34. Tupistra nutans 35. Tupistra nutans 36. Nephrolepis cordifolia 37. Urtica dioca 38. Viscum articulatum 39. Valariena jatamansi 30. Valariena jatamansi 31. Nakhii jatamansi 32. Valariena jatamansi 33. Valariena jatamansi 34. Viscum articulatum 35. Used as Anti-diabetic and also prevents anemia and osteoporosis [46] 38. Viscum articulatum 39. Valariena jatamansi 30. Valariena jatamansi 31. Vused against arteriosclerosis, arthritis and settling of fracture bones [49] 30. Valariena jatamansi 31. Viscum articulatum 32. Valariena jatamansi 33. Tupistra nutans 34. Tupistra nutans 35. Tupistra nutans 36. Nephrolepis cordifolia 37. Urtica dioca 38. Viscum articulatum 39. Vused in balactening of hairs and to remove foul smell due to tootache [50] 39. Valariena jatamansi 30. Valariena jatamansi 31. Viscum articulatum 32. Viscum articulatum 33. Viscum articulatum 34. Viscum articulatum 35. Viscum articulatum 36. Viscum articulatum 37. Vused against dysentery, bowel complaints and haematuria [50] 40. Woodfordia fruticosa 41. Vanthoxyllum allatum 42. Tatus baccata 43. Picrorhitza kurooa 44. Abies wabbiana 45. Apiaragus racemosus 46. Astilbe rivularis 47. Adatoda vasica 48. Assuru 49. Alstonia scholaris 49. Alstonia scholaris 40. Viscum articulatum 40. Used | | Stephania glabra | Taubarkey | Root Bulb | Used against asthma, analgesia and arthritis [41] |
| Toona ciliata Tooni Flower Bark Used in leprosy, blood infections and used as cardiotonic [44] | 31. | Xanthoxyllum acanthopodium | Bokey timbur | Fruit | |
| Toona ciliata Tooni Flower Bark Used in leprosy, blood infections and used as cardiotonic [44] | 32. | Terminalia ballerica | Barra | Fruit Bark | Used in hepatitis, piles, bronchitis, asthma and cough [43] |
| Tupistra nutans Nakima Flower Used as Anti-diabetic and also prevents anemia and osteoporosis 46 | 33. | Toona ciliata | Tooni | Flower Bark | Used in leprosy, blood infections and used as cardiotonic [44] |
| Nephrolepis cordifolia Pani-amla Tubers Used as Hepatoprotective and natural contraceptive agent 47 37. Urtica dioca Sisnu Whole plant Used as bllod builder, anti-hemorrhagic and diuretic agent 48 38. Viscum articulatum Harchur Whole plant Used against arteriosclerosis, arthritis and settling of fracture bones 49 39. Valariena jatamansi Nakali jatamansi Root Used in blackening of hairs and to remove foul smell due to tootache 500 Used in blackening of hairs and to remove foul smell due to tootache 500 Used in blackening of hairs and to remove foul smell due to tootache 500 Used dagainst dysentery, bowel complaints and haematuria 511 Used against dysentery, bowel complaints and haematuria 512 Used as anti-diabetic agent 521 Used as anti-diabetic agent 521 Used for cold cough and hypertension 531 Used for cold cough and hypertension 531 Used for cold cough, fever, bile flow related problems 541 Used against cough, Indigestion and tuberculosis 551 Used in Indigestion, tumor and bronchitis 561 Used in Indigestion, tumor and bronchitis 561 Used against inflammation and peptic ulcer 571 Used in scabies, upper respiratory tract infections and rheumatic fever 581 Used for malarial fever, urticaria and skin disorders 600 Used for malarial fever, urticaria and skin disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 Used to treat pulmonary infections, piles and disorders 600 U | 34. | Trichosanthus bracteata | Indreyni | Fruit root | |
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| 38. Viscum articulatum Harchur Whole plant Used against arteriosclerosis, arthritis and settling of fracture bones [49] 39. Valariena jatamansi Nakali jatamansi Root Used in blackening of hairs and to remove foul smell due to tootache [50] 40. Woodfordia fruticosa Dhayeroo Flower, Bark Used against dysentery, bowel complaints and haematuria [51] 41. Xanthoxyllum allatum Bokey timbur Fruits Used as anti-diabetic agent [52] 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension [53] 43. Picrorhiza kurooa Kutki Roots Used to cure cough, fever, bile flow related problems [54] 44. Abies wabbiana Gobre salla Leaves and Gum Used against cough, Indigestion and tuberculosis [55] 45. Asparagus racemosus Kurilo Tuberous Used in Indigestion, tumor and bronchitis [56] 46. Astilbe rivularis Buriokathi Leaves, Root and Rhizome Used against inflammation and peptic ulcer [57] 47. Adatoda vasica Asuru Bark, Flower and Root Used in scabies, upper respiratory tract infections and rheumatic fever [58] 48. Aesandra butyraceae Chewri Fruits Used for liver protection, gastritis and urination tract infection [59] 49. Alstonia scholaris Chatiwan Bark, Flower and Latex Used for malarial fever, urticaria and skin disorders [60] 40. Berginia ciliata Pakhanbed Root and Rhizome Used as antiseptic, stops nose bleeding, and also used as liver and spleen | 36. | Nephrolepis cordifolia | Pani-amla | Tubers | Used as Hepatoprotective and natural contraceptive agent [47] |
| Nakali jatamansi Root Used in blackening of hairs and to remove foul smell due to tootache Sol | 37. | Urtica dioca | Sisnu | Whole plant | Used as bllod builder, anti-hemorrhagic and diuretic agent [48] |
| Woodfordia fruticosa Dhayeroo Flower, Bark Used against dysentery, bowel complaints and haematuria [51] 41. Xanthoxyllum allatum Bokey timbur Fruits Used as anti-diabetic agent [52] 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension [53] 43. Picrorhiza kurooa Kutki Roots Used to cure cough, fever, bile flow related problems [54] 44. Abies wabbiana Gobre salla Leaves and Gum Used against cough, Indigestion and tuberculosis [55] 45. Asparagus racemosus Kurilo Tuberous Used in Indigestion, tumor and bronchitis [56] 46. Astilbe rivularis Buriokathi Leaves, Root and Rhizome Used against inflammation and peptic ulcer [57] 48. Aesandra butyraceae Chewri Fruits Used for liver protection, gastritis and urination tract infection [59] 49. Alstonia scholaris Chatiwan Bark, Flower and Latex Used for malarial fever, urticaria and skin disorders [60] 40. Automisia unleastic Titaurati Used as antiseptic, stops nose bleeding, and also used as liver and spleen | 38. | Viscum articulatum | Harchur | Whole plant | |
| 41. Xanthoxyllum allatum Bokey timbur Fruits Used as anti-diabetic agent [52] 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension [53] 43. Picrorhiza kurooa Kutki Roots Used to cure cough, fever, bile flow related problems [54] 44. Abies wabbiana Gobre salla Leaves and Gum Used against cough, Indigestion and tuberculosis [55] 45. Asparagus racemosus Kurilo Tuberous Used in Indigestion, tumor and bronchitis [56] 46. Astilbe rivularis Buriokathi Leaves, Root and Rhizome Used against inflammation and peptic ulcer [57] 47. Adatoda vasica Asuru Bark, Flower and Root Used in scabies, upper respiratory tract infections and rheumatic fever [58] 48. Aesandra butyraceae Chewri Fruits Used for liver protection, gastritis and urination tract infection [59] 49. Alstonia scholaris Chatiwan Bark, Flower and Latex Used for malarial fever, urticaria and skin disorders [60] 50. Berginia ciliata Pakhanbed Root and Rhizome Used to treat pulmonary infections, piles and dissolving stones in kidney and bladder [61] 51. Astantise pulmona | 39. | Valariena jatamansi | Nakali jatamansi | Root | Used in blackening of hairs and to remove foul smell due to tootache [50] |
| 42. Taxus baccata Dhengre salla Leaf and Bark Used for cold cough and hypertension [53] 43. Picrorhiza kurooa Kutki Roots Used to cure cough, fever, bile flow related problems [54] 44. Abies wabbiana Gobre salla Leaves and Gum Used against cough, Indigestion and tuberculosis [55] 45. Asparagus racemosus Kurilo Tuberous Used in Indigestion, tumor and bronchitis [56] 46. Astilbe rivularis Buriokathi Leaves, Root and Rhizome Used against inflammation and peptic ulcer [57] 47. Adatoda vasica Asuru Bark, Flower and Root Used in scabies, upper respiratory tract infections and rheumatic fever [58] 48. Aesandra butyraceae Chewri Fruits Used for liver protection, gastritis and urination tract infection [59] 49. Alstonia scholaris Chatiwan Bark, Flower and Latex Used for malarial fever, urticaria and skin disorders [60] 50. Berginia ciliata Pakhanbed Root and Rhizome Used to treat pulmonary infections, piles and dissolving stones in kidney and bladder [61] 51. Astonia scholaris Titaureti Used as antiseptic, stops nose bleeding, and also used as liver and spleen | 40. | Woodfordia fruticosa | Dhayeroo | Flower, Bark | Used against dysentery, bowel complaints and haematuria [51] |
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| 48. Aesandra butyraceae Chewri Fruits Used for liver protection, gastritis and urination tract infection [59] 49. Alstonia scholaris Chatiwan Bark, Flower and Latex Used for malarial fever, urticaria and skin disorders [60] 50. Berginia ciliata Pakhanbed Root and Rhizome Used to treat pulmonary infections, piles and dissolving stones in kidney and bladder [61] 51. Artemizia urla gripo urla gripo (malaria) Titangeti Used as antiseptic, stops nose bleeding, and also used as liver and spleen | 46. | Astilbe rivularis | Buriokathi | Leaves, Root and Rhizome | Used against inflammation and peptic ulcer [57] |
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| 50. Berginia ciliata Pakhanbed Root and Rhizome Used to treat pulmonary infections, piles and dissolving stones in kidney and bladder [61] Used as antiseptic, stops nose bleeding, and also used as liver and spleen | | Alstonia scholaris | | Bark, Flower and Latex | |
| 51. Artemisia vulgaris Titaypati Leaves Used as antiseptic, stops nose bleeding, and also used as liver and spleen protective agent [62] | | | | Root and Rhizome | Used to treat pulmonary infections, piles and dissolving stones in kidney and |
| | 51. | Artemisia vulgaris | Titaypati | Leaves | Used as antiseptic, stops nose bleeding, and also used as liver and spleen |

Arunachal Pradesh:

- 500 species plants
- 101 species are medicinal plants which are used by majority of people for their primary health care needs.



Perme, N.; Choudhury, S.N.; Choudhury, R.; Natung, T.; De, B. Medicinal plants in traditional use at Arunachal Pradesh, India. Int. J. Phytopharm. 2015, 5, 86–98.

| Sl No | Scientific name of the plant | Family | Local name of plant | Habit | Ethno-medicinal uses | Plant parts used | Phytochemicals reported | Ref. |
|----------|------------------------------------|---------------|---------------------------|-----------------------------------|--|------------------------------------|---|-------------|
| 1 | Ageratum conyzoides | Asteraceae | Pashpaya | Weed | Wound healing, antihelmintic | Leaf, stem | Chromene, chromone, monoterpenes(β-pinene, linalools, sabinene), sesquiterpene, flavonoides, alkaloids | [5] [6] |
| 2 | Alstonia scholaris | Apocynaceae | Tayesangn e | tree | Treatment of ulcer, swelling, latex is given during abdominal pain after delivery | Leaves, root, bark, latex | Flavonoids, alkaloids, proanthocyanidines, echitenine and echitamine | [5] |
| 3 | Artemesia nilagirica | Asteraceae | Tipintarin | Shrub | In headache and stomach pain, used as vegetable, to get relief from asthma | Leaves | Glycosides, tannins, phenols, terpenoides, saponins, amino acids, alkaloids, essential oil | [5] |
| 4 | Cassia alata | Fabaceae | Kra-pat | Shrub | Leaf juice is applied in eczema and itching | Leaves and roots | Alkaloids, tannins, anthraquinone, cardiacglycoside,phenols,diter pene, flavonoides | [5] |
| 5 | Centella asiatica | Apiaceae | Barang | herb | Fresh plant juice with honey is given in stomach ulcer, leprosy | Whole plant | Pentacyclictriterpenoids, asiaticoside, brahmoside, Asiatic acid, brahmic acid etc | [5], [7] |
| 6 | Clerodendron glandulosum | Lamiaceae | Pattoi | Shrub | For treatment of high blood pressure and bowel troubles, obesity | Fruits and leaves | Ascorbic acid, polyphenols, steroids, saponin, flavonoids etc | [5] |
| 7 | Colocasia esculenta | Araceae | Yaksar | aquatic tropical Plant | Fever and cough,petiole juice is used as styptic and stimulant | Leaves, stem and rhizome | Apigenin, luteolin, anthocyanin, minerals, steroids, sitosterol, starch | [5] |
| 8 | Curcurma longa | Zingiberaceae | Longobom | Herb | Used in bone fracture, anti tumour, in cardiovascular disease, anti bacterial | Leave, rhizome | Curcuminoides which includes curcumin, demethoxy- curcumin, resin, atlantone, turmerone, bisdemethoxycurcumin, sugars | [5], [8] |
| 9 | Dillenia indica | Dilliniaceae | Ahutenga | large shrub/ medium tree | Fruit decoction is applied to scalp for curing dandruff, wound healing, bone fracture, anti | Fruit pulp and leaves | Diterpene namely dipoloicacid, kaempferol, quercetin, betulini, betulinic acid, mallicacid, free amino | [5] |

Nagaland:

- 241 species plants
- 142 species are medicinal plants which are used by majority of people for their primary health care needs.



Zhasa, N. N., Hazarika, P., & Tripathi, Y. C. (2015). Indigenous knowledge on utilization of biodiversity for treatment and cure of disease of human beings in Nagaland, India: A case study. *International Research Journal of Biological Sciences.*, 4(4), 89–106.

| S.N. | Scientific Name | Local Name | Uses |
|------|--|-----------------------------------|--|
| 1 | Adhatoda vasica Nees. | Mhejung Malabar nut | Leaves, barks and fruits are used Ao and Lotha tribes for curing bronchitis, fever, asthama and bleeding gums. Flowers and roots are used as an antiseptic. |
| 2 | Andrographis paniculata (Burm.f.) Wall.ex.Nees | Kalmegh | All Naga tribes use this whole plant in dysentery, diarrhoea, stomach skin diseases and fever, malaria, jaundice, liver trouble, diabetes and stomach ailment |
| 3 | Phlogacanthus thryrsiflorus(Roxb.) Nees. | Tita Phul Metecüse | Leaves and flowers are used for Fever, asthma and chronic bronchitis. |
| 4 | Thunbergia grandiflora | Sky flower, Nulidongmoli | Fruits used as vegetable. Roots are used as an aphrodisiac |
| 5 | Adiantum philippense L. | Maiden hair fern | Leaves are used to treat cough and throat infections. Rhizomes used as an antipyretic. |
| 6 | Adiantum raddianum C. Presl | Delta maiden hair fern | The whole plant is used to improve flow of urine, cure pulmonary, cough and respiratory problems and relieve muscle pains and inflammation of joints. |
| 7 | Viburnum foetidum Wall | Tsiekha | Leaves and roots are used for Anti-spasmodic and asthma. |
| 8 | Agave Americana L. | Century Plant | Whole plant used as blood purifier, diuretic and prevents formation of pus |
| 9 | Sesuvium portulacastrum L. | Shoreline purselane | Water extract of whole plant is used for scurvy and fever. |
| 10 | Achyranthes aspera L. | Pickles chaff flower, Aok rhua | The decoction of the herb is used for Pneumonia, toothache, abdominal tumours, diabetes, rheumatic pain, dysentery and piles. Root paste is used as anti-fertility drug Flowering spikes or seeds paste is used as an external application for poisonous insect bites and snake bites |
| 11 | Amaranthus gangeticus L. | Elephant-head amaranth | Roots used in treating abdominal pain and stomachache. Paste of whole plant used in inflammation of skin. Used in treating boils and burns and as laxative. |
| 12 | Deeringia amaranthoides Merr. | Mathukthuka | Tender leaves are used to heal fresh cuts by Ao community. |
| 13 | Hippeastrum puniceum (Lam.) Kuntze | Barbados lily | Bulb extract is used in allergy and rheumatism by the Sangtam and Khiamniungam tribes |
| 14 | Rhus semialata Murr. | Naga tenga Tangma-tong, Tanmo | Fruits edible, used for treatment of dysentery, diarrhoea and food poisoning |
| 15 | Annona reticulata L. | Bullock's heart | Used for remedy of jaundice, liver disorders, skin diseases, dropsy and as a diuretic. Also used as condiments |
| 17 | Cathranthus roseus (L.) G. Don | Periwinkle | Leaves used by the Sangtam Konyak and Chakhesang tribes for leukaemia, hypertension, diabetes and kidney problems. |
| 18 | Gomphocarpus physocarpus E. Mey | Baloon plant yongpi | Leaves and seeds are used by Chakhesang and Sangtam tribes in gastro-intestinal problems but can be fatal |
| 19 | Rauvofia serpentina (L.) Benth. ex Kurz | Serpent wood | Roots used as remedy for insomnia and high blood pressure |
| 20 | Tabernaemontana divaricata L | Crepe gardenia | Leaves, seeds and roots used in anti-inflammatory, syphilis, leprosy, gonorrhoea, dysentery, diarrhoea, malaria and fever. |
| 21 | Ilex pernyi Franch. | Perny holly | Tannin and bitter substances derived from leaves are used to treat bronchitis and rheumatic ailments. |
| 22 | Acorus calamus L. | Sweet Flag, Calamus, | Oil extract from the dried rhizome is used for coughs, influenza and tuberculosis. It is also used to enhance memory function of brain |
| 23 | Colocasia esculenta (1.) Schott | Arum/Banu, Manü | Corms edible, used by the Sangtam Angami, Zeliang tribes in insect stings, cuts, burns, injuries and internal hemorrhages. |

Assam:

- 3854 species plants
- More than 300 species are medicinal plants which are used by majority of people for their primary health care needs.



| S. no. | Scientific Name | Common Name | Medicinal Use |
|--------|----------------------|------------------|---|
| 1. | Abelmoschus manihot | Usipak, Aibika | Flowers used to treat chronic bronchitis and toothache ¹⁴ |
| 2. | Abrus precatorius | Latumoni | Helps in hair growth, leaves are used in fever and cough & cold 15 |
| 3. | Desmodium laxiforum | Bhuter chira | Leaves and stem are used to treat amenorrhoea and uterine infection 16 |
| 4. | Thunbergia coccinea | Changalota,Nil- | Root juice is used to treat stomach infection and sterility 16 |
| | | lata, Nilakontho | |
| 5. | Spilenthes acmella | Suho nibon | Leaves are used to treat mouth ulcers 17 |
| 6. | Colocasia esculenta | Kola kochu | Corms and runners are consumed and are believed to treat piles and tonsilitis ¹⁷ |
| 7. | Alocasia macrorrhiza | Bar-kachu | Used to treat knee joint pain and headache ¹⁸ |
| 8. | Enydra fluctuans | Helechi | Leaves are used to treat ring worm ¹⁷ |
| 9. | Blechnum orientale | Dhekia | Used to treat stomachache, urinary bladder infection and skin diseases 19 |
| 10. | Nymphoides indica | Tal japori | The plant juice is consumed for treating jaundice ¹⁷ |

Ghosh D & Parida P, Medicinal plants of Assam, India: A Mini Review, Int J Pharm Pharma Sci, 2 (6) (2015) 5-10.

Mizoram:

- More than 400 species plants
- 207 species are medicinal plants which are used by majority of people for their primary health care needs.



| Sl. | Scientific name & family | Local | Habit | Part(s) | Mode of preparation | Ailments/ diseases | Ecological distribution & |
|-----|---|--|-------|-----------------|---|--|--|
| No | - | name | | used | | | location |
| 1. | Abelmoschus moschatus Medic (Malvaceae) | Uichhuhlo, Bawrhsaiab e suak (Lalram) | Н | seeds | Powdered seeds mixed with water taken orally. | Headache, carminative & stomachic | Frequent in semi-open areas and jhumlands: Durtlang road |
| 2. | Acalypha indica L. (Euphorbiaceae) | Chhawntan | Н | Leaves | Juice of leaves applied externally; paste of leaves applied externally. | Scabies, itches, rash, syphilis, snake-bite & centipede bites. | Scare; secondary forest, Tanhril |
| 3. | Achyranthes aspera L. (Amaranthaceae) | Buchhawl | Н | w.p., leaves | Crushed juice taken orally | Dysentery, piles & skin eruptions, wounds, ulcer, soreworms. | Common in waste places, Bethlehem, Aizawl. |
| 4. | Acorus calamus L. (Araceae) | Hnim- rimtui (Lalram) | Н | Root | Infusion of root taken orally | Bronchitis, cough, asthma, diarrhea, dysentery, snake-bites. | Rare; waste marshy places near Teirei river. |
| 5. | Actephila excels (Dalz.) Muell. Arg. (Euphorbiaceae) | Moiteleng | Sh | Leave | Juice of bruised leaves applied externally. | Tonsillitis, throat-pain. | Rare; in dense forest, Perhsang. |
| 6 | Ageratum conyzoides L. (Asteraceae) | Vailenhlo | Н | Leaves, roots | Crushed juice applied externally | Cuts, haemostatics, antilithic. | Very common in waste places throughout Mizoram. |
| 7. | Aginata indica L. (Orobanchaceae) | Sangharvai bel | Eph. | rh | Crushed juice applied externally. | Mumps, inflammatory. | rare; seasonal; dense forest of Dampa, Chhingchhip. |
| 8. | Aegle marmelos (L.) Corr.ex Roxb. (Rutaceae) | Belthei | Т | fruit | Seeds eaten; pulp mixed with water taken orally. | Dysentery, scorbutic, cooling, alleya, antigonorrhoea, stomachic. | Introduced; Zawlnuam. |
| 9. | Albizia chinensis (Osb.) Merr. (Mimosaceae) | Vang | Т | stb. | Juice applied externally | as lotionfor cuts, scabies, skin diseases. | Common throughout Mizoram |
| 10. | Albizia procera (Roxb.) Benth. (Mimosaceae) | Kangteknu | Т | Leaves | Poultice applied externally. | Ulcers. | very frequent in dry sandy secondary forests, West Phaileng. |
| 11. | Albizia odoratissima (L.f.) Benth. (Mimosaceae) | Kangtekpa | Т | stb. | juice applied externally. | Ulcers, leprosy. | Less frequent; Rawpuichhip |
| 12. | Alpina galanga Willd. (Zingiberaceae) | Aichal | Н | rh | Infusion taken orally | Stomachic, febrifuge,diuretic, bronchitis. | Rare; mixed forest of Tlabung. |

Lalramnghinglova H. 2016. Documentation of medicinal plants based on traditional practices in the Indo-Burma hotspots region of Mizoram, north east India. Emer Life Sci Res. 2:10–45.

Conclusion

- Need to collect various traditional practices of medicinal plants with well documentation.
- These traditional knowledge could help in the scientific discovery of important drugs to cure long standing diseases.
- Policies for the conservation of some of the endangered medicinal plants needed to be taken up seriously.
- Need to share these traditional practices across the world.
- Large scale fundings should be provided to the studies of traditional medicines.