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## Medicinal plant genetic resources of Bangladesh – genera represented by single species and their conservation needs

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### Abstract

Medicinal plant genetic resources are one of the most important elements of biodiversity which support life system on earth. A total of 280 genera of 88 families of medicinal plants are represented by single species in the flora of Bangladesh. Among the genera represented by single species, 45 families are represented only by single genus; 22 genera are monotypic, represented by only the “type species”. Hitherto, 19 taxa are threatened as per IUCN Red list category; 31 taxa are classified as either near threatened or conservation dependent. Although 65 taxa are not evaluated (NE), has not yet been assessed against the IUCN Red list criteria, 15 taxa within the NE category have been found rare or very rare and/or already extinct from the wild. Therefore, proper attention should be given to conserve these medicinal plant genetic resources of Bangladesh for the welfare of human being and animal health.

**Keywords:** Angiosperm, medicinal plant, biodiversity, conservation

### 1. Introduction

Bangladesh is the largest deltaic region of the world, and it lies in the northeastern part of South Asia between 20°34' and 26°38' N latitude and 88°01' and 92°41' E longitude. The sub-tropical monsoon climate prevails throughout the country with high relative humidity and heavy rainfall during the rainy season. Bangladesh, although occupies relatively small geographical area, is rich in both floral and faunal diversities evident in a varied range of ecosystems starting from the northern and eastern hills to the southern seas; most deciduous forests to the mangroves, and different agro-ecosystems spread over the wetlands, flood plains as well as the hills [1]. The eastern part of Bangladesh biogeographically falls within the Indo-Burma region which is one of the 25 recognized biodiversity hotspot areas of the world and supposed to have 7000 endemic plant species [2]. The species diversity in the “Flora of Bangladesh” is a subject matter of debate until today and it varies from 3,813 to 5,348 [3, 4]. It has been revealed that out of 3,611 species of angiosperms, 2,623 species belong to 158 families of dicotyledons, and 988 species belong to 41 families of monocotyledons [5, 6, 7, 8, 9, 10, 11]. A total of 777 genera of 160 families of angiosperms are represented by single species in the flora of the country [12]. Moreover, 449 angiosperm species are threatened [3], and many others, specially the medicinal plant species are facing great pressure [13].

A medicinal plant is any plant which, in one or more of its organs, contains substances that can be used for therapeutic purposes, or which are precursors for chemo-pharmaceutical semi-synthesis. When a plant is designated as ‘medicinal’, it is implied that the said plant is useful as a drug or therapeutic agent or an active ingredient of a medicinal preparation. Medicinal plants may, therefore, be defined as a group of plants that possess some special properties or virtues that qualify them as articles of drugs and therapeutic agents, and are used for medicinal purposes [14]. Over 50% of prescription drugs are derived from chemicals those first identified in plants. The Botanic Gardens Conservation International identified 400 medicinal plants at risk of extinction from over-collection and deforestation, threatening the discovery of future cures for disease. For this review, six volumes of “Encyclopedia of Flora and Fauna of Bangladesh” [5, 6, 7, 8, 9, 10, 11] and the subsequent publications have been taken into account [15, 16, 17]. A list of the medicinal plants genera of angiosperms (hereafter only medicinal plant) represented by single species in Bangladesh territory was prepared with their uses and present conservation status.

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## 2. Results and Discussion

A total of 280 genera of 88 families of medicinal plants are represented by single species in the flora of the country (Table 1), which constitute more than 50% of the total medicinal plant genetic resources of Bangladesh [14]. The number of genera represented by single species should be increased (or decreased), as the inventory of plants of Bangladesh is far beyond the completion. Among the families, 74 are dicotyledons and the rest (14) monocotyledons. It is also noteworthy that more than 50% families (37 dicots and 8 monocots) are represented by only single genus each (Table 1). Fabaceae with 25 taxa can be considered as the most dominant, followed by Asteraceae (17), Poaceae (15), Euphorbiaceae (12), Cucurbitaceae (11). These five families together account for about one-third of the total number of medicinal plants genera represented by single species in Bangladesh (Table 1). Different plant parts viz. roots, stem, leaves, flowers, fruits and seeds are used for medicinal purposes, although sometimes the whole plant is being used for medicinal purposes [5, 6, 7, 8, 9, 10, 11]. There is a wide variation in mode of prescription of a taxon for medication of different diseases. For example, 54 genera are used as remedy for only one disease each, 42 genera for two diseases each, 73 genera for 3–6 diseases each and the rest are used for multiple diseases (Table 1). On the other hand, sometimes more than one taxa are prescribed for the same disease e.g., for dysentery – *Cyathula prostrata* (L.) Blume, *Peltophorum pterocarpum* (DC.) K. Heyne, *Munronia pinnata* (Wall.) Theob., *Streblus asper* Lour., *Punica granatum* L., *Tamilnadia uliginosa* (Retz.) Tirveng. & Sastre, *Melochia corchorifolia* L., *Scaphium scaphigerum* (Wall. ex G. Don) Guibourt & Planch., etc. (Table 1). Moreover, four genera (species) viz. *Maniltoa polyandra* (Roxb.) Harms, *Oxyceros kunstleri* (King & Gamble) Tirveng., *Sophora wightii* Baker and *Ulex europaeus* L., were reported as medicinal without stating its specific use [7, 8, 10]. Biswas [18] reported that 26 species of medicinal plants are frequently used by “Kabiraj” (herbal doctors). Six of those medicinal plants species are also included in the present list and arranged as follows, based on their decreasing priority – *Abroma augusta* (L.) L.f., *Aegle marmelos* (L.) Corr., *Azadirachta indica* A. Juss., *Centella asiatica* (L.) Urban, *Ricinus communis* L. and *Aloe vera* (L.) Burm. f. (Table 1) [18]. Among these studied medicinal plant genera, 22 genera are monotypic, represented by only the “type species” throughout the world [19]. The taxa are – *Anethum graveolens* L.,

*Coriandrum sativum* L., *Foeniculum vulgare* Miller, *Nerium oleander* L., *Synedrella nodiflora* (L.) Gaertn., *Kigelia africana* (Lamk.) Benth., *Oroxylum indicum* (L.) Kurz, *Benincasa hispida* (Thunb.) Cogn., *Mukia maderaspatana* (L.) M. Roem., *Ricinus communis* L., *Castanospermum australe* A. Cunn. & Fraser, *Tamarindus indica* L., *Colebrookea oppositifolia* Smith, *Soymida febrifuga* (Roxb.) A. Juss., *Euryale ferox* Salisb., *Martynia annua* L., *Tamilnadia uliginosa* (Retz.) Tirveng. & Sastre, *Toddalia asiatica* (L.) Lamk., *Litchi chinensis* Sonn., *Pentapetes phoenicea* L., *Pistia stratiotes* L., and *Reinwardtia indica* Dura; it represents ca. 8% of the total number of genera (Table 1).

Hitherto, 19 taxa are threatened (9 Endangered & 10 Vulnerable) as per IUCN Red list category (Table 1). Moreover, 31 taxa are classified as either near threatened (11) or conservation dependent (20) species. The category “conservation dependent” (CD) is not included in the recent IUCN red list categories [20]. Although 65 taxa are not evaluated (NE), has not yet been assessed against the IUCN Red list criteria, 15 taxa within the NE category have been found rare or very rare and/or already extinct from the wild (Table 1). It is also a matter of concern that specimens of 2 species viz. *Synadenium grantii* Hook.f. and *Meriandra bengalensis* (Konig ex Roxb.) Benth., have not been collected since their first collections [7, 8]. Another taxon *Tetraphyllum bengalense* C.B. Clarke has not been collected after its second collection by Prain in 1903 [21]. Therefore, at present, the physical existence of these taxa is doubtful in nature. Some of the major reasons behind the biodiversity depletion in Bangladesh are high population density, extreme poverty, unemployment, habitat destruction, degradation and fragmentation of land, over-exploitation and illegal collection, environmental pollution and degradation, natural calamities (such as floods, cyclones, increase in soil salinity, etc.) related to sea level rise and global climate changes, invasive alien species, etc. The wild and semi-wild medicinal plant species have been used over the millennia for human welfare in the promotion of health and as drugs. The people lives in rural areas of Bangladesh, more than 70 per cent of her population, are using medicinal plant for their primary health care and curing different diseases [22]. Therefore, proper attention should be given to conserve these medicinal plant genetic resources of Bangladesh for the welfare and health of human being and animal.

**Table 1:** Enumeration of genera of medicinal plants represented by single species

|     | Family         | Botanical Name   | Uses  | Status |
|-----|----------------|--|---|--------|
| 1.  | Acanthaceae    | <i>Crossandra infundibuliformis</i> (L.) Nees          | Medicinal - Aphrodisiacal properties  | LC     |
| 2.  |                | <i>Dicliptera bupleuroides</i> Nees                    | Medicinal - Tonic   | NE     |
| 3.  |                | <i>Ecbolium ligustrinum</i> (Vahl) Vollesen            | Medicinal - Gout, Disuria, Jaundice, Menorrhagia, Rheumatism                          | LC     |
| 4.  |                | <i>Graptophyllum pictum</i> (L.) Griff.                | Medicinal - Multipurpose  | LC     |
| 5.  | Actinidiaceae  | <i>Saurauia roxburghii</i> Wall.                       | Medicinal - Hair pomade   | LC     |
| 6.  | Amaranthaceae  | <i>Achyranthes aspera</i> L.                           | Medicinal - Multipurpose  | LC     |
| 7.  |                | <i>Cyathula prostrata</i> (L.) Blume                   | Medicinal - Cough, Dysentery, Cholera, Intestinal worms                               | NE, R  |
| 8.  | Anacardiaceae  | <i>Anacardium occidentale</i> L.                       | Medicinal - Multipurpose  | LC     |
| 9.  |                | <i>Tapiria hirsuta</i> Hook.f.                         | Medicinal - Antiseptic, Cut, Wound  | CD     |
| 10. | Annonaceae     | <i>Cananga odorata</i> (Lam.) Hook. f. & Thorn.        | Medicinal - Multipurpose  | NE     |
| 11. | Apiaceae       | <i>Anethum graveolens</i> L.                           | Medicinal - Multipurpose  | LC     |
| 12. |                | <i>Centella asiatica</i> (L.) Urban                    | Medicinal - Multipurpose  | LC     |
| 13. |                | <i>Cnidium monnieri</i> Cusson                         | Medicinal - Chinese   | NE, VR |
| 14. |                | <i>Coriandrum sativum</i> L.                           | Medicinal - Multipurpose  | LC     |
| 15. |                | <i>Daucus carota</i> L.                                | Medicinal - Multipurpose  | LC     |
| 16. |                | <i>Foeniculum vulgare</i> Miller                       | Medicinal - Multipurpose  | LC     |
| 17. | Apocynaceae    | <i>Carrisa carandas</i> L.                             | Medicinal - Multipurpose  | LC     |
| 18. |                | <i>Catharanthus roseus</i> (L.) G. Don.                | Medicinal - Multipurpose  | LC     |
| 19. |                | <i>Holarrhena antidysenterica</i> (L.) Wall. ex Decne. | Medicinal - Stomachic, Astringent, Anti-dysenteric, Febrifuge, Anthelmintic           | LC     |
| 20. |                | <i>Ichnocarpus frutescens</i> (L.) R. Br.              | Medicinal - Multipurpose  | LC     |
| 21. |                | <i>Nerium oleander</i> L.                              | Medicinal - Poisonous   | LC     |
| 22. |                | <i>Pottisia laxiflora</i> (Blume) O. Kuntze            | Medicinal - Latex   | NE, VR |
| 23. |                | <i>Thevetia peruviana</i> (Pers.) K. Schum.            | Medicinal - Children ailments, asthma   | LC     |
| 24. |                | <i>Vallis solanacea</i> (Roth) O. Kuntze               | Medicinal - Sores, wounds; Orn.   | CD     |
| 25. |                | <i>Willughbeia edulis</i> Roxb.                        | Medicinal - Oedema  | CD     |
| 26. | Asclepiadaceae | <i>Asclepias curassavica</i> L.                        | Medicinal - Multipurpose  | LC     |
| 27. |                | <i>Hemidesmus indicus</i> (L.) R. Br.                  | Medicinal - Multipurpose  | LC     |
| 28. |                | <i>Pergularia daemia</i> (Forssk.) Chiov.              | Medicinal - Emetic, Expectorant, Infantile complaints                                 | LC     |
| 29. | Asteraceae     | <i>Adenostemma lavenia</i> (L.) O. Kuntze              | Medicinal - Antispasmodic, Stimulant  | LC     |
| 30. |                | <i>Ageratum conyzoides</i> L.                          | Medicinal - Multipurpose  | LC     |
| 31. |                | <i>Calendula officinalis</i> L.                        | Medicinal - Vulnerary, Anthelmintic   | LC     |
| 32. |                | <i>Carthamus tinctorius</i> L.                         | Medicinal - Stimulant, Sedative, Emmenagogue, Measles, Dysmenorrhoea, Ulcers dressing | LC     |
| 33. |                | <i>Centipeda minima</i> (L.) A. Br. & Aschers.         | Medicinal - Multipurpose  | LC     |
| 34. |                | <i>Chromolaena odorata</i> (L.) King & Robinson        | Medicinal - Healing out cuts, poison (fish)   | LC     |
| 35. |                | <i>Cirsium arvense</i> (L.) Scop.                      | Medicinal - Multipurpose  | LC     |
| 36. |                | <i>Eclipta alba</i> (L.) Hassk.                        | Medicinal - Multipurpose  | LC     |
| 37. |                | <i>Elephantopus scaber</i> L.                          | Medicinal - Multipurpose  | LC     |
| 38. |                | <i>Enhydra fluctuans</i> Lour.                         | Medicinal - Multipurpose  | LC     |
| 39. |                | <i>Ethulia conyzoides</i> L.                           | Medicinal - Multipurpose  | LC     |

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| 40. |                 | <i>Grangea maderaspatana</i> (L.) Poir.                     | Medicinal - Multipurpose  | LC     |
| 41. |                 | <i>Lactuca scariola</i> L. var. <i>sativa</i> Hook. f.      | Medicinal - Multipurpose  | LC     |
| 42. |                 | <i>Mikania cordata</i> (Burm. f.) Robinson                  | Medicinal - Snakebite, Scorpion sting, Itching, Circumcision and other wounds     | LC     |
| 43. |                 | <i>Solidago virgaurea</i> L.                                | Medicinal - Dropsy, Oedema  | LC     |
| 44. |                 | <i>Syndrella nodiflora</i> (L.) Gaertn.                     | Medicinal - Sore-legs, Headache, Earache, Rheumatism, Stomach-ache                |        |
| 45. |                 | <i>Xanthium indicum</i> Koen. ex Roxb.                      | Medicinal - Multipurpose  | LC     |
| 46. | Basellaceae     | <i>Basella rubra</i> L.                                     | Medicinal - Demulcent, Cooling, Poultice for sores, Gently laxative               | LC     |
| 47. | Bignoniaceae    | <i>Crescentia cujeta</i> L.                                 | Medicinal - Lunatic   | NE     |
| 48. |                 | <i>Jacaranda mimosifolia</i> D. Don                         | Medicinal - Ulcers, Wound   | LC     |
| 49. |                 | <i>Kigelia africana</i> (Lamk.) Benth.                      | Medicinal - Multipurpose  | NE, R  |
| 50. |                 | <i>Oroxylum indicum</i> (L.) Kurz                           | Medicinal - Stomach disorders   | LC     |
| 51. | Bombacaceae     | <i>Adansonia digitata</i> L.                                | Medicinal - Malaria   | NE, R  |
| 52. | Boraginaceae    | <i>Coldenia procumbens</i> L.                               | Medicinal - Rheumatic swelling, Skin diseases, Cuts & Wound, Leucoderma           | LC     |
| 53. |                 | <i>Cynoglossum lanceolatum</i> Forssk.                      | Medicinal - Antipyretic, Antimicrobial, Snake bite                                | LC     |
| 54. |                 | <i>Rotula aquatica</i> Lour.                                | Medicinal - Piles, Bladder stone, Verineal diseases                               | NE, R  |
| 55. |                 | <i>Trichodesma indicum</i> (L.) R. Br.                      | Medicinal - Multipurpose  | NE, VR |
| 56. | Brassicaceae    | <i>Capsella bursa-pastoris</i> (L.) Medic.                  | Medicinal - Astringent, Arresting bleeding, Dropsy, Chest trouble                 | NE, R  |
| 57. |                 | <i>Cochlearia cochlearioides</i> (Roth) Santapau & Maheshw. | Medicinal - Fever   | NE, R  |
| 58. |                 | <i>Eruca sativa</i> Mill.                                   | Medicinal - Stimulant, Stomachic, Diuretic, Antisorbutic                          | NE, R  |
| 59. |                 | <i>Raphanus sativus</i> L.                                  | Medicinal - Multipurpose  | LC     |
| 60. | Buddlejaceae    | <i>Buddleja asiatica</i> Lour.                              | Medicinal - Skin complaints, Abortifacient  | LC     |
| 61. | Burseraceae     | <i>Commiphora agallocha</i> (Wight & Arn.) Engl.            | Medicinal - Multipurpose  | NE, R  |
| 62. | Caprifoliaceae  | <i>Viburnum colebrookianum</i> Wall. ex DC.                 | Medicinal - Old sores   | NE, R  |
| 63. | Caricaceae      | <i>Carica papaya</i> Linn.                                  | Medicinal - Laxative  | LC     |
| 64. | Caryophyllaceae | <i>Drymaria diandra</i> Blume                               | Medicinal - Laxative, Fever, Colds & Bronchitis, Eye troubles, Antivenin          | NE     |
| 65. |                 | <i>Stellaria wallichiana</i> Benth. ex Haines               | Medicinal - Skin diseases   | NE, R  |
| 66. | Celastraceae    | <i>Cassine glauca</i> (Rottb.) O. Kuntze                    | Medicinal - Headache, Swelling; Timber  | NT     |
| 67. | Chenopodiaceae  | <i>Arthrocnemum indicum</i> (Willd.) Moq.                   | Medicinal - Snake bite  | NE     |
| 68. |                 | <i>Salicornia brachiata</i> Roxb.                           | Medicinal - Itching, Emmenagogue, Abortive  | NE     |
| 69. |                 | <i>Spinacia oleracea</i> L.                                 | Medicinal - Multipurpose  | LC     |
| 70. | Chloranthaceae  | <i>Chloranthus erectus</i> (Buch.-Ham.) Verdc.              | Medicinal - Fever, Venereal Diseases  | NE, R  |
| 71. | Combretaceae    | <i>Calycopteris floribunda</i> (Roxb.) Lamk.                | Medicinal - Leprosy   | LC     |
| 72. | Connaraceae     | <i>Rourea minor</i> (Gaertn.) Leenh.                        | Medicinal - Tonic, Rheumatism, Scurvy, Pulmonary complaints, Diabetes, Febrifuge  | LC     |
| 73. | Convolvulaceae  | <i>Aniseia martinicensis</i> (Jacq.) Choisy                 | Medicinal - Purgative, Bilioe dyspepsia   | LC     |
| 74. |                 | <i>Operculina turpethum</i> (L.) S. Manso                   | Medicinal - Purgative, Anthelmintic, Constipation, Piles, Muscular pain           | LC     |
| 75. | Cucurbitaceae   | <i>Benincasa hispida</i> (Thunb.) Cogn.                     | Medicinal - Alterative, Styptic, Tonic, Diuretic, Internal haemorrhages, Phthisis | LC     |
| 76. |                 | <i>Bryonopsis laciniata</i> (L.) Naud.                      | Medicinal - Tonic   | LC     |
| 77. |                 | <i>Coccinia grandis</i> (L.) Voigt                          | Medicinal - Skin disease, Bronchitis, Diabetes, Earache                           | LC     |
| 78. |                 | <i>Diplocyclos palmatus</i> (L.) Jeffre                     | Medicinal - Fever, Ticks  | LC     |
| 79. |                 | <i>Gymnopetalum cochinchinense</i> (Lour.) Kurz             | Medicinal - Multipurpose  | LC     |
| 80. |                 | <i>Hodgsonia macrocarpa</i> (Blume) Cogn.                   | Medicinal - Oil   | LC     |

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|------|------------------|--|---|-------|
| 81.  |                  | <i>Kedrostis foetidissima</i> (Jacq.) Cogn.                | Medicinal - Piles, Asthma,  | EN    |
| 82.  |                  | <i>Lagenaria siceraria</i> (Molina) Standl.                | Medicinal - Multipurpose  | LC    |
| 83.  |                  | <i>Mukia maderaspatana</i> (L.) M. Roem.                   | Medicinal - Aperients, Vertigo, Bilioussness, Toothache, Cough, Sodorific                   | LC    |
| 84.  |                  | <i>Solena amplexicaulis</i> (Lamk.) Gandhi                 | Medicinal - Multipurpose  | LC    |
| 85.  |                  | <i>Zanonia indica</i> L.                                   | Medicinal - Antispasmodic, Anti-inflammatory, Nerve irritation, Cathartic, Antiseptic       | EN    |
| 86.  | Datisceae        | <i>Tetrameles nudiflora</i> R. Br.                         | Medicinal - Multipurpose  | NE    |
| 87.  | Dipterocarpaceae | <i>Hopea odorata</i> Roxb.                                 | Medicinal - Wound, Sores  | LC    |
| 88.  |                  | <i>Shorea robusta</i> Roxb. ex Gaertn. f.                  | Medicinal - Multipurpose  | LC    |
| 89.  | Elaeagnaceae     | <i>Elaeagnus latifolia</i> L.                              | Medicinal - Astringent, Cardiac   | NE, R |
| 90.  | Euphorbiaceae    | <i>Aleurites moluccana</i> (L.) Willd.                     | Medicinal - good for brain, heart, liver, Bronchitis; causing vomiting & involuntary motion | NE    |
| 91.  |                  | <i>Bischofia javanica</i> Blume                            | Medicinal - Sores   | LC    |
| 92.  |                  | <i>Chrozophora rottleri</i> (Geiseler) A. Juss. ex Spreng. | Medicinal - Cathartic, Blistering   | LC    |
| 93.  |                  | <i>Claoxylon khasianum</i> Hook. f.                        | Medicinal - Purgative   | VU    |
| 94.  |                  | <i>Cleistanthus chartaceus</i> Muell.-Arg.                 | Medicinal - Insect attacked, Washing septic wound   | NE    |
| 95.  |                  | <i>Pedilanthus tithymaloides</i> Poit.                     | Medicinal - Warts, Scorpion sting, Emetic   | LC    |
| 96.  |                  | <i>Putranjiva roxburghii</i> Wall.                         | Medicinal - Multipurpose  | LC    |
| 97.  |                  | <i>Ricinus communis</i> L.                                 | Medicinal - Multipurpose  | LC    |
| 98.  |                  | <i>Sebastiania chamaelea</i> (L.) Muell.-Arg.              | Medicinal - Astringent, Tonic, Vertigo, Diarrhoea, Syphilis                                 | EN    |
| 99.  |                  | <i>Synadenium grantii</i> Hook. f.                         | Medicinal - Skin irritation   | EN    |
| 100. |                  | <i>Tragia involucrata</i> L.                               | Medicinal - Multipurpose  | LC    |
| 101. |                  | <i>Trewia nudiflora</i> L.                                 | Medicinal - Multipurpose  | LC    |
| 102. | Fabaceae         | <i>Adenanthera pavonina</i> L.                             | Medicinal - Multipurpose  | LC    |
| 103. |                  | <i>Atylosia scarabaeoides</i> (L.) Baker                   | Medicinal - Diarrhoea of cattle   | EN    |
| 104. |                  | <i>Castanospermum australe</i> A. Cunn. & Fraser           | Medicinal - Strangely laxative  | DD    |
| 105. |                  | <i>Cicer arietinum</i> L.                                  | Medicinal - Multipurpose  | LC    |
| 106. |                  | <i>Clitoria ternatea</i> L.                                | Medicinal - Multipurpose  | LC    |
| 107. |                  | <i>Cullen corylifolium</i> (L.) Medic                      | Medicinal - Multipurpose  | EN    |
| 108. |                  | <i>Cyamopsis tetragonoloba</i> (L.) Taub.                  | Medicinal - Laxative, Bilioussness, Night blindness   | CD    |
| 109. |                  | <i>Cynometra ramiflora</i> L.                              | Medicinal - Scabies, Leprosy, Other skin diseases; Wood                                     | LC    |
| 110. |                  | <i>Entada rheedii</i> Spreng.                              | Medicinal - Multipurpose  | NE    |
| 111. |                  | <i>Glycine max</i> (L.) Merr.                              | Medicinal - Astringent properties   | LC    |
| 112. |                  | <i>Lens culinaris</i> Medic.                               | Medicinal - Small pox   | LC    |
| 113. |                  | <i>Leucaena leucocephala</i> (Lamk.) de Wit.               | Medicinal - Multipurpose  | LC    |
| 114. |                  | <i>Macrotyloma uniflorum</i> (Lamk.) Verde                 | Medicinal - Multipurpose  | LC    |
| 115. |                  | <i>Maniltoa polyandra</i> (Roxb.) Harms                    | Medicinal -   | NE    |
| 116. |                  | <i>Paracalyx scariosus</i> (Roxb.) Ali                     | Medicinal - Epilepsy, Induce sleep.   | NE    |
| 117. |                  | <i>Paraserianthes falcataria</i> (L.) Nielsen              | Medicinal - Multipurpose  | LC    |
| 118. |                  | <i>Parkia timoriana</i> (DC.) Merr.                        | Medicinal - Multipurpose  | NE    |
| 119. |                  | <i>Peltophorum pterocarpum</i> (DC.) K. Heyne              | Medicinal - Dysentery, Sprains, Muscular pain, Ulcers                                       | LC    |
| 120. |                  | <i>Pongamia pinnata</i> (L.) Pierre                        | Medicinal - Multipurpose  | LC    |
| 121. |                  | <i>Samanea saman</i> (Jacq.) Merr.                         | Medicinal - Multipurpose  | LC    |

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|------|-----------------|---|--|----|
| 122. |                 | <i>Sophora wightii</i> Baker  | Medicinal  | EN |
| 123. |                 | <i>Tamarindus indica</i> L.   | Medicinal - Multipurpose   | LC |
| 124. |                 | <i>Ulex europaeus</i> L.  | Medicinal  | DD |
| 125. |                 | <i>Xylia zylocarpa</i> (Roxb.) Taub. var. <i>kerrii</i> (Craib & Hutch) Neilsen | Medicinal - Multipurpose   | LC |
| 126. |                 | <i>Zornia diphylla</i> (L.) Pers.   | Medicinal - Induce sleep   | LC |
| 127. | Gentianaceae    | <i>Erythraea roxburghii</i> G. Don  | Medicinal - Stomachic, substitute of Chiretta, Fever                                     | NE |
| 128. |                 | <i>Hoppea dichotoma</i> Willd.  | Medicinal - Piles, Snake bites   | NT |
| 129. |                 | <i>Chirita oblongifolia</i> (Roxb.) B.L. Burtt.                                 | Medicinal - Swelling, Ankle & wrist pain   | NT |
| 130. |                 | <i>Didymocarpus mollis</i> Wall.  | Medicinal - Swelling, Ankle & wrist pain   | NT |
| 131. |                 | <i>Rhynchosyche ellipticum</i> (Diet.) DC.                                      | Medicinal - Cough, Boil  | CD |
| 132. |                 | <i>Tetraphyllum bengalense</i> C.B. Clarke                                      | Medicinal - Swelling, Ankle & wrist pain   | EN |
| 133. | Hippocrateaceae | <i>Reissantia indica</i> (Willd) Hall   | Medicinal - Fever, Rheumatism  | NE |
| 134. | Hydrophyllaceae | <i>Hydrolea zeylanica</i> (L.) Vahl.  | Medicinal - Cleaning & healing effect  | LC |
| 135. | Iridaceae       | <i>Belamcanda chinensis</i> (L.) DC   | Medicinal - Purgative, Chest, Liver  | LC |
| 136. | Lamiaceae       | <i>Ajuga macrocarpa</i> Wall. ex Benth.   | Medicinal - Multipurpose   | LC |
| 137. |                 | <i>Colebrookea oppositifolia</i> Smith  | Medicinal - Headache, Extract worms from bad sores on legs                               | CD |
| 138. |                 | <i>Leonotis nepetaefolia</i> (L.) R. Br.  | Medicinal - Multipurpose   | NE |
| 139. |                 | <i>Leonurus sibiricus</i> L.  | Medicinal - Multipurpose   | LC |
| 140. |                 | <i>Meriandra bengalensis</i> (Konig ex Roxb.) Benth.                            | Medicinal - Aphthae, Sore throat, Diminishes milk secretion in human; Condiment          | NE |
| 141. |                 | <i>Perilla frutescens</i> (L.) Britt.   | Medicinal - Sedative, Antispasmodic, Diaphoretic, Cephalic, Uterine stimulant, Sunstroke | LC |
| 142. | Lauraceae       | <i>Cassytha filiformis</i> L.   | Medicinal - Tonic, Cleansing inveterate ulcers, Inflamed eyes, Scald head, Vermin        | LC |
| 143. |                 | <i>Neolitsea cassia</i> (L.) Kosterm.   | Medicinal - Bruises, Eruption  | NE |
| 144. | Lecthidaceae    | <i>Couroupita guianensis</i> Aubl.  | Medicinal - Insect repellent   | LC |
| 145. | Lythraceae      | <i>Lawsonia inermis</i> L.  | Medicinal - Multipurpose   | LC |
| 146. |                 | <i>Woodfordia fruticosa</i> (L.) Kurz   | Medicinal - Multipurpose   | CD |
| 147. | Malvaceae       | <i>Alcea rosea</i> L.   | Medicinal - Burns, Anti-venomous reptiles except snake, Demulcent, Diuretic              | LC |
| 148. |                 | <i>Fioria vitifolia</i> (L.) Mattei   | Medicinal - Anti-lice  | LC |
| 149. |                 | <i>Malachra capitata</i> (L.) L.  | Medicinal - Emollient  | LC |
| 150. |                 | <i>Malvastrum coromandelianum</i> (L.) Gracke                                   | Medicinal - Emollient, Inflamed sores, wound, Diaphoretic                                | LC |
| 151. | Meliaceae       | <i>Aphanamixis polystachya</i> (Wall.) R. N. Parker                             | Medicinal - Multipurpose   | LC |
| 152. |                 | <i>Azadirachta indica</i> A. Juss.  | Medicinal - Multipurpose   | LC |
| 153. |                 | <i>Chukrasia tabularis</i> A. Juss.   | Medicinal - Astringent; Timber   | LC |
| 154. |                 | <i>Heynea trijuga</i> Sims  | Medicinal - Tonic, Menstruation disorders, Cholera                                       | CD |
| 155. |                 | <i>Melia azedarach</i> L.   | Medicinal - Multipurpose   | LC |
| 156. |                 | <i>Munronia pinnata</i> (Wall.) Theob.  | Medicinal - Fevers, Dysentery, Leprosy, Skin diseases                                    | NE |
| 157. |                 | <i>Soyimida febrifuga</i> (Roxb.) A. Juss.                                      | Medicinal - Multipurpose   | NE |
| 158. | Menispermaceae  | <i>Anamirta cocculus</i> (L.) Wight & Arn.                                      | Medicinal - Insecticide, Skin disease, Anti-lice   | CR |
| 159. |                 | <i>Cissampelos pareira</i> L. var. <i>hirsuta</i> (Buch. ex DC.) Forman         | Medicinal - Snake bite, Scorpion sting, Tonic, Diuretic, Astringent, Sedative            | VU |
| 160. |                 | <i>Cocculus hirsutus</i> (L.) Theob.  | Medicinal - Gonorrhoea   | VU |
| 161. |                 | <i>Cyclea barbata</i> Miers   | Medicinal - Stomach trouble, Prophylactic  | NT |
| 162. |                 | <i>Diploclisia glaucescens</i> (Bl.) Diels                                      | Medicinal - Childs fever   | VU |

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| 163. |                | <i>Hypserpa nitida</i> Miers   | Medicinal - Hepatitis B   | NE |
| 164. |                | <i>Pericampylus glaucus</i> (Lamk.) Merr.  | Medicinal - Eye   | NE |
| 165. |                | <i>Tiliacora acuminata</i> (Lamk.) Hook. f. & Thorns.  | Medicinal - Snake bites   | LC |
| 166. | Moraceae       | <i>Streblus asper</i> Lour.  | Medicinal - Multipurpose  | LC |
| 167. | Myricaceae     | <i>Myrica nagi</i> Thunb.  | Medicinal - Rheumatism, Catarrh, Headache   | NT |
| 168. | Myrtaceae      | <i>Cleistocalyx nervosum</i> (DC) Kosterm var. <i>paniala</i> (Roxb.) J. Parn. & P. Chantarathai | Medicinal - Multipurpose  | LC |
| 169. |                | <i>Melaleuca leucadendron</i> L.   | Medicinal - Multipurpose  | NE |
| 170. |                | <i>Myrtus communis</i> L.  | Medicinal - Multipurpose  | NE |
| 171. | Nelumbonaceae  | <i>Nelumbo nucifera</i> Gaertn.  | Medicinal - Multipurpose  | LC |
| 172. | Nyctaginaceae  | <i>Boerhaavia diffusa</i> L.   | Medicinal - Multipurpose  | LC |
| 173. |                | <i>Mirabilis jalapa</i> L.   | Medicinal - Multipurpose  | LC |
| 174. | Nymphaeaceae   | <i>Euryale ferox</i> Salisb.   | Medicinal - Tonic, Astringent, Expectorant, Aphrodisiac                               | NE |
| 175. | Opiliaceae     | <i>Lepionurus sylvestris</i> Blume   | Medicinal - Fever, Headache   | NE |
| 176. | Papaveraceae   | <i>Argemone maxicana</i> L.  | Medicinal - Multipurpose  | LC |
| 177. | Martyniaceae   | <i>Martynia annua</i> L.   | Medicinal - Inflammations, Scorpion stings, Epilepsy, Tuberculous glands, Sore throat | LC |
| 178. | Pedaliaceae    | <i>Sesamum indicum</i> L.  | Medicinal - Multipurpose  | LC |
| 179. | Piperaceae     | <i>Peperomia pellucida</i> (L.) H.B. & K.  | Medicinal - Multipurpose  | LC |
| 180. | Polygonaceae   | <i>Fagopyrum esculentum</i> Moench   | Medicinal - Multipurpose  | LC |
| 181. | Portulacaceae  | <i>Talinum paniculatum</i> (Jacq.) Gaertn.   | Medicinal - Diabetes  | NE |
| 182. | Primulaceae    | <i>Anagallis arvensis</i> L.   | Medicinal - Multipurpose  | NE |
| 183. | Punicaceae     | <i>Punica granatum</i> L.  | Medicinal - Astringent, Dysentery, Diarrhoea, Tape worms                              | LC |
| 184. | Ranunculaceae  | <i>Nigella sativa</i> L.   | Medicinal - Multipurpose  | LC |
| 185. |                | <i>Ranunculus sceleratus</i> L.  | Medicinal - Multipurpose  | LC |
| 186. | Rhamnaceae     | <i>Gouania tiliaefolia</i> Lamk.   | Medicinal - Sore  | NE |
| 187. | Rhizophoraceae | <i>Kandelia candel</i> (L.) Druce  | Medicinal - Diabetics   | CD |
| 188. |                | <i>Carallia brachiata</i> (Lour.) Merr.  | Medicinal - Ulcer, relief of Itching  | LC |
| 189. | Rosaceae       | <i>Duchesnea indica</i> (Andr.) Focke  | Medicinal - Tongue ulcer  | NE |
| 190. | Rubiaceae      | <i>Benkara malabarica</i> (Lamk.) Tirveng  | Medicinal - Abdominal pain, Throat infection  | CD |
| 191. |                | <i>Catunaregam spinosa</i> (Thunb.) Tirveng  | Medicinal - Multipurpose  | LC |
| 192. |                | <i>Geophila repens</i> (L.) Johnston   | Medicinal - Eye, Febrifuges, Leprosy, Malnutrition, Disability, Abdominal pain        | VU |
| 193. |                | <i>Nauclea orientalis</i> (L.) L.  | Medicinal - Malaria   | EN |
| 194. |                | <i>Neolamrckia cadamba</i> (Roxb.) Bosser  | Medicinal - Febrifuge, Tonic, Aphthae, Stomatitis                                     | LC |
| 195. |                | <i>Neonauclea sessilifolia</i> (Roxb.) Merr.   | Medicinal - Bowel complaints, Fever, Fungal & Bacterial infection                     | CD |
| 196. |                | <i>Oxyceros kunstleri</i> (King & Gamble) Tirveng.   | Medicinal   | CD |
| 197. |                | <i>Prismatomeris tetrandra</i> (Roxb.) K. Schum. subsp. <i>tetrandra</i>                         | Medicinal - Stomach pain  | NT |
| 198. |                | <i>Richardia scabra</i> L.   | Medicinal - Tetanus   | CD |
| 199. |                | <i>Tamilnadia uliginosa</i> (Retz.) Tirveng. & Sastre  | Medicinal - Diuretic, Heart disease, Diarrhoea, Dysentery                             | VU |
| 200. | Rutaceae       | <i>Acronychia pedunculata</i> (L.) Miq.  | Medicinal - Digestion, Rheumatism, Itch   | NE |
| 201. |                | <i>Aegle marmelos</i> (L.) Corr.   | Medicinal - Multipurpose  | LC |
| 202. |                | <i>Atalantia monophylla</i> (L.) DC  | Medicinal - Chronic rheumatism, Paralysis, Snake bite                                 | NE |

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| 203. |                  | <i>Limonia acidissima</i> L.                                     | Medicinal - Multipurpose                                     | LC |
| 204. |                  | <i>Luvunga scandens</i> (Roxb.) Buch.-Uam. ex Wight & Arn.       | Medicinal - Antidotes for snake poison, Scorpion sting       | NE |
| 205. |                  | <i>Merope angulata</i> (Willd.) Swingle                          | Medicinal - Stomach disorder, Colic                          | NE |
| 206. |                  | <i>Micromelum minutum</i> (J.G. Forster) Wight & Arn.            | Medicinal - Multipurpose                                     | NE |
| 207. |                  | <i>Toddalia asiatica</i> (L.) Lamk.                              | Medicinal - Multipurpose                                     | NE |
| 208. | Salicaceae       | <i>Salix tetrasperma</i> Roxb.                                   | Medicinal - Febrifuge  | LC |
| 209. | Sapindaceae      | <i>Cardiospermum halicacabum</i> L.                              | Medicinal - Multipurpose                                     | LC |
| 210. |                  | <i>Dimocarpus longan</i> Lour.                                   | Medicinal - Tonic, Stimulant                                 | NT |
| 211. |                  | <i>Dodonaea viscosa</i> Jacq.                                    | Medicinal - Stimulant, Gout, Wounds, Swelling, Burn          | LC |
| 212. |                  | <i>Litchi chinensis</i> Sonn.                                    | Medicinal - Multipurpose                                     | LC |
| 213. |                  | <i>Sapindus saponaria</i> L.                                     | Medicinal - Multipurpose                                     | NT |
| 214. | Sapotaceae       | <i>Madhuca longifolia</i> (Koenig) MacBride                      | Medicinal - Multipurpose                                     | NE |
| 215. |                  | <i>Mimusops elengi</i> L.  | Medicinal - Multipurpose                                     | LC |
| 216. | Scrophulariaceae | <i>Curanga amara</i> Juss.                                       | Medicinal - Tonic, Febrifuge                                 | NE |
| 217. |                  | <i>Kickxia ramosissima</i> (Wall.) Janchen                       | Medicinal - Diabetes   | NE |
| 218. |                  | <i>Scoparia dulcis</i> L.  | Medicinal - Multipurpose                                     | LC |
| 219. |                  | <i>Verbascum chinense</i> (L.) Santapau                          | Medicinal - Multipurpose                                     | En |
| 220. |                  | <i>Veronica undulata</i> Wall. ex Jack                           | Medicinal - Multipurpose                                     | LC |
| 221. | Simaroubaceae    | <i>Ailanthus excelsa</i> Roxb.                                   | Medicinal - Multipurpose                                     | NE |
| 222. |                  | <i>Brucea mollis</i> Wall. ex Kurz.                              | Medicinal - Malaria, Cancer, Diuretic, Cardiovascular effect | NE |
| 223. |                  | <i>Picrasma javanica</i> Blume                                   | Medicinal - Multipurpose                                     | NE |
| 224. | Solanaceae       | <i>Datura metel</i> L.   | Medicinal - Asthma, Mental disorder                          | LC |
| 225. |                  | <i>Withania somnifera</i> (L.) Dunal in DC.                      | Medicinal - Multipurpose                                     | CD |
| 226. | Sterculiaceae    | <i>Abroma augusta</i> (L.) L.f.                                  | Medicinal - Multipurpose                                     | NT |
| 227. |                  | <i>Melochia corchorifolia</i> L.                                 | Medicinal - Dysentery, Swelling, Water snake bite            | LC |
| 228. |                  | <i>Pentapetes phoenicea</i> L.                                   | Medicinal - Multipurpose                                     | LC |
| 229. |                  | <i>Scaphium scaphigerum</i> (Wall. ex G. Don) Guibourt & Planch. | Medicinal - Dysentery, Diarrhoea                             | LC |
| 230. |                  | <i>Waltheria indica</i> L.                                       | Medicinal - Multipurpose                                     | NE |
| 231. | Theaceae         | <i>Schima wallichii</i> (DC) Korth.                              | Medicinal - Multipurpose                                     | LC |
| 232. | Thymelaeaceae    | <i>Wikstroemia indica</i> (L.) C.A. Mey                          | Medicinal - Purgative, Snake bites                           | NE |
| 233. | Urticaceae       | <i>Laportea interrupta</i> (L.) Chew                             | Medicinal - Multipurpose                                     | LC |
| 234. | Verbenaceae      | <i>Nyctanthes arbor-tristis</i> L.                               | Medicinal - Multipurpose                                     | LC |
| 235. |                  | <i>Stachytarpheta jamaicensis</i> (L.) Vahl.                     | Medicinal - Multipurpose                                     | NT |
| 236. | Zygophyllaceae   | <i>Tribulus terrestris</i> L.                                    | Medicinal - Multipurpose                                     | NE |
|      |                  | <b>Monocot</b>   |  |    |
| 237. | Agavaceae        | <i>Cordyline terminalis</i> (L.) Kunth                           | Medicinal - Anti-helminthic for cows                         | NE |
| 238. |                  | <i>Polianthes tuberosa</i> L.                                    | Medicinal - Gonorrhoea, Diuretic, Emetic, Red pimples        | LC |
| 239. | Alismataceae     | <i>Alisma plantago-aquatica</i> L.                               | Medicinal - Multipurpose                                     | CD |
| 240. | Aloaceae         | <i>Aloe vera</i> (L.) Burm. f.                                   | Medicinal - Multipurpose                                     | LC |
| 241. | Araceae          | <i>Acorus calamus</i> L.   | Medicinal - Multipurpose                                     | VU |
| 242. |                  | <i>Dieffenbachia seguine</i> (Jacq.) Schott                      | Medicinal - Multipurpose                                     | LC |



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| 243. |                  | <i>Epipremnum pinnatum</i> (L.) Engl.                          | Medicinal - Abscesses, Traumatic injury, Rheumatic antralgia, Aches                      | LC |
| 244. |                  | <i>Gonatopus boivinii</i> (Decne.) Engl.                       | Medicinal - Seminal weakness   | VU |
| 245. |                  | <i>Lasia spinosa</i> (L.) Thw.                                 | Medicinal - Multipurpose   | LC |
| 246. |                  | <i>Pistia stratiotes</i> L.                                    | Medicinal - Multipurpose   | LC |
| 247. |                  | <i>Plesmonium margaritifera</i> (Roxb.) Schott                 | Medicinal - Toothache, Bruises, Body swelling  | NE |
| 248. |                  | <i>Remusatia vivipara</i> (Roxb.) Schott                       | Medicinal - Breast mastitis, Traumatic injury, Abscesses, Swellings                      | VU |
| 249. | Arecaceae        | <i>Arenga pinnata</i> (Wurmb) Merr.                            | Medicinal - Bladder trouble, Tuberculosis, Stomachic, Pectoral, Diuretic, Antihemophilic | LC |
| 250. |                  | <i>Borassus flabellifer</i> L.                                 | Medicinal - Stimulant, Aperients, Ulcers, Wounds, Biliousness, Blistering agent          | LC |
| 251. |                  | <i>Cocos nucifera</i> L.                                       | Medicinal - Astringent, Sore throat, Cough, Vermifuse, Ringworm, Aperients               | LC |
| 252. |                  | <i>Elaeis guineensis</i> Jacq.                                 | Medicinal - Intoxicating drink   | NE |
| 253. | Bromeliaceae     | <i>Ananas comosus</i> (L.) Merr.                               | Medicinal - Intestinal worms, Abortifacient  | LC |
| 254. | Cannaceae        | <i>Canna indica</i> L.   | Medicinal - Hypotensive, Anti-inflammatory, Diaphoretic, Diuretic, Demulcent             | LC |
| 255. | Commelinaceae    | <i>Cyanotis cristata</i> (L.) D. Don                           | Medicinal - Cattle fever   | LC |
| 256. |                  | <i>Floscopa scandens</i> Lour.                                 | Medicinal - Fractured bone, sore Eyes  | LC |
| 257. | Costaceae        | <i>Costus speciosus</i> (Koenig ex Retz.) Smith                | Medicinal - Multipurpose   | LC |
| 258. | Hydrocharitaceae | <i>Flagellaria indica</i> L.                                   | Medicinal - Astringent, Vulnerary  | LC |
| 259. | Liliaceae        | <i>Asphodelus tenuifolius</i> Cavan                            | Medicinal - Prevention of arteriosclerosis, Diuretic, Antiseptic                         | VU |
| 260. |                  | <i>Gloriosa superba</i> L.                                     | Medicinal - Multipurpose   | CD |
| 261. |                  | <i>Haemanthus multiflorus</i> Martyn ex Willd.                 | Medicinal - Asthma, Dropsy, Poisonous  | CD |
| 262. |                  | <i>Urginea indica</i> (Roxb.) Kunth                            | Medicinal - Coughs, Chronic bronchitis, Asthma, Anti-cancer                              | CD |
| 263. |                  | <i>Reinwardtia indica</i> Dura                                 | Medicinal - Paralysis of horse & cattle  | NE |
| 264. | Poaceae          | <i>Apluda mutica</i> L.  | Medicinal - Pneumonia, Mouth soar  | LC |
| 265. |                  | <i>Arundo donax</i> L.   | Medicinal - Tuberculosis, Irregular menstruation   | LC |
| 266. |                  | <i>Axonopus compressus</i> (Sw.) P. Beauv.                     | Medicinal - Bone fracture  | LC |
| 267. |                  | <i>Chionachne koenigii</i> (Spreng.) Thw.                      | Medicinal - Multipurpose   | NE |
| 268. |                  | <i>Dactyloctenium aegyptium</i> (L.) P. Beauv.                 | Medicinal - Kidney stone   | LC |
| 269. |                  | <i>Desmostachya bipinnata</i> (L.) Stapf                       | Medicinal - Thirst, Asthma, Jaundice, Menorrhagia, Biliousness                           | LC |
| 270. |                  | <i>Hachelochloa granularis</i> (L.) O. Kuntze                  | Medicinal - Spleen & Liver enlargement   | LC |
| 271. |                  | <i>Heteropogon contortus</i> (L.) P. Beauv. ex Roem. & Schult. | Medicinal - Diuretic, Stimulant  | LC |
| 272. |                  | <i>Hordeum vulgare</i> L.                                      | Medicinal - Multipurpose   | CD |
| 273. |                  | <i>Hygroryza aristata</i> (Retz.) Nees                         | Medicinal - Biliousness  | LC |
| 274. |                  | <i>Ichnanthus vicinus</i> (F.M. Bailey) Merr.                  | Medicinal - Chest cold   | LC |
| 275. |                  | <i>Phragmites karka</i> (Retz.) Trin. ex Steud.                | Medicinal - Biliousness, Urinary troubles, Vaginal & uterine complaints, Heart diseases  | LC |
| 276. |                  | <i>Rottboellia cochinchinensis</i> (Lour.) W.D. Clayton        | Medicinal - Suppression of boils   | LC |
| 277. |                  | <i>Vetiveria zizanioides</i> (L.) Nash                         | Medicinal - Multipurpose   | LC |
| 278. |                  | <i>Zea mays</i> L.   | Medicinal - Multipurpose   | CD |
| 279. | Pontederiaceae   | <i>Eichhornia crassipes</i> (Mart.) Solms                      | Medicinal - Goiter   | LC |
| 280. | Zingiberaceae    | <i>Etilingera linguiformis</i> (Roxb.) R.M. Smith              | Medicinal - Throat soar  | LC |

LC: Least concern, NE: Not evaluated, R: Rare, VR: Very rare, NT: Near threaten, EN: Endangered, VU: Vulnerable, DD: Data deficient, CD: Conservation dependent

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