**Flowering Plants of Ghughua Fossil Park, Madhya Pradesh, India**

Arjun Prasad Tiwari1, C R Magesh2, Naaz Rizvi2

1Botanical Survey of India, Central Regional Centre, Allahabad (U.P.) - 211 002

2National Museum of Natural History, New Delhi-110003

Telephone: 918004392787; E-mail: [arjuntiwari2007@gmail.com](mailto:arjuntiwari2007@gmail.com)

**Abstract:** The present work provides an account of flowering plants of the Ghughua Fossil Park, Madhya Pradesh, India as observed during two exploration tour. Atotal number of 452 species under 300 genera belonging to 80 families are recorded.Out of these 97 species in 62 genera and 13 families belong to monocot and 355 species in 238 genera and 67 families belong to dicot. Further analysis of data indicated that 244 species are occasional, 159 species are common, 27 species are rare, 19 species are frequent and 3 species are planted in the park.

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**1. Introduction**

Ghughua Fossil Park is a National Park, situated in [Mandla district](https://en.wikipedia.org/wiki/Mandla_district) of [Madhya Pradesh](https://en.wikipedia.org/wiki/Madhya_Pradesh) in [India](https://en.wikipedia.org/wiki/India). This [national park](https://en.wikipedia.org/wiki/National_park) has plants in [fossil](https://en.wikipedia.org/wiki/Fossil) form that existed in India anywhere between 40 million and 150 million years ago spread over seven villages of [Mandla District](https://en.wikipedia.org/wiki/Mandla_District) (Ghuguwa, Umaria, Deorakhurd, Barbaspur, Chanti-hills, Chargaon and Deori Kohani). The Ghughua Fossil Park is an area that spreads over 274,100 km2. The site was founded during the 1970 by Dr. Dharmendra Prasad, a statistical officer of the [Mandla](https://en.wikipedia.org/wiki/Mandla) district and honorary secretary of the district archaeology unit. It was declared a National Park in 1983 by government of Madhya Pradesh. Numerous woody plants, climbers, leaf, flowers, fruit, seed, and shell fossils have been found here, some of which dates as far back as 65 million years, the most prominent of which are the [palm](https://en.wikipedia.org/wiki/Palm_(plant)) fossils. A [eucalyptus](https://en.wikipedia.org/wiki/Eucalyptus) fossil found at Ghughua Fossil Park is the oldest fossil of its type ever discovered and this find supports its origins from Gondwana. Additional notable discoveries include a dinosaur egg fossil.Other fossilized plants include ancient forms of date palm, neem, jamun, banana, rudraksh, jackfruit and aonla. About 65 Milion (6.5 crore) years ago, this area was covered by forests similar to the evergreen and semi evergreen forests of today's Western Ghats and northeast India. The forests were made up of moisture-loving plants. There was a three-tier forest structure consisting of low trees or shrubs growing below moderate to large-sized trees. The middle level had mostly palm-like trees.

The vegetation of the park is tropical dry deciduous. They are interspersed with swamps. The *Acacia catechu*, *A. leucophloea, Anogeissus latifolia*, *Buchanania cochinchinensis*, *Butea monosperma*, *Cassia fistula, Diospyros melanoxylon*, *Flacourtia indica*, *Haldina cordifolia, Lannea coromandelica*, *Lagerstroemia parviflora*, *Phyllanthus emblica*, *Madhuca longifolia* var. *latifolia*, *Mitragyna parviflora, Terminalia alata,* *Wrightia tinctoria*,etc., are the common trees in around the park. Some common shrubs and undershrubs like *Grewia flavescens*, *Helicteres isora, Nyctanthes arbor-tristis, Urena lobata, Waltheria indica* and *Ziziphus nummularia* are found in the park area.The undergrowth is sparse and mainly constituted by *Achyranthes aspera*, *Ageratum conyzoides, Alysicarpus vaginalis,* *Blepharis maderaspatensis, Corchorus aestuans, Desmodium gangeticum*, *Elephantopus scaber*, *Hybanthus enneaspermus, Indigofera tinctoria*, *Lagascea mollis*, *Lindernia crustacea, Melochia corchorifolia, Pentanema indicum, Dicliptera paniculata,* *Pupalia lappacea,* *Cyanthillium cinereum, Tephrosia purpurea, Zornia gibbosa,* etc. and a large varieties of sedges and grasses like *Apluda mutica*, *Cyperus* spp., *Dichanthium annulatum, Eragrostis* spp., *Fimbristylis* spp., *Heteropogon contortus, Iseilema laxum,* *Oplismenus burmannii,* etc*.* Climbers are quite common in the park and consist of *Abrus precatorius, Ampelocissus latifolia*, *Cajanus scarabaeoides, Cryptolepis dubia*, *Cocculus hirsutus, Ichnocarpus frutescens, Dioscorea bulbifera*, *Pergularia daemia*, *Ventilago denticulata, Ziziphus oenoplia,* etc. *Dendrophthoe falcata* is the most common parasite in this park.

A review of literature indicates that Ghughua Fossil Park has received little attention of botanists. Botanical Survey of India has published Flora of Madhya Pradesh (Verma *et al*., 1993; Mudgal *et* *al*., 1997; Singh *et al*., 2001; Khanna *et al*., 2001) wherein the plants of Mandla district have also been included but no effort has been made to work out the floristic account of fossil park in separately, while the vegetation of the park is very important for many more aspects. Thus, there is urgent need to study the floristic of the Ghughua Fossil Park separately in detail. It is also worth mentioning here that the Convention on Biological Diversity (CBD) and the Biological Diversity Bill 2002 of India have also laid emphasis on inventorisation of the rich biodiversity areas, so that a fair assessment can be made for sustainable utilization of bioresources. Keeping these points in view, the present study has been undertaken to carry out the floristic diversity of Ghughua Fossil Park in order to help in formulating conservation strategies and measures for sustainable utilization of plant resources.

**Enumeration**

All the species have been enumerated in alphabetical order with the correct binomial, local name if any, family habit and status of plants (Table 1).

Table 1. Flowering plants of Ghughua Fossil Park, Madhya Pradesh, India

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No.** | **Botanical Name / Local Name** | **Family** | **Habit** | **Status** |
| 1 | *Abelmoschus ficulneus* (L.) Wight & Arn. ex Wight / Jangli Bhindi | Malvaceae | Shrub | O |
| 2 | *Abelmoschus manihot* (L.) Medik. subsp. *tetraphyllus* (Roxb. exHornem.) Borss. / Jangli Bhindi | Malvaceae | Shrub | O |
| 3 | *Abrus precatorius* L. / Ghughchi | Fabaceae | Climber | R |
| 4 | *Abutilon indicum* (L.) Sw. / Kanghi | Malvaceae | Shrub | O |
| 5 | *Acacia catechu* (L. f.) Willd. / Khair | Mimosaceae | Tree | C |
| 6 | *Acacia farnesiana* (L.) Willd. | Mimosaceae | Trees | O |
| 7 | *Acacia leucophloea* (Roxb.) Willd. / Reujha | Mimosaceae | Tree | C |
| 8 | *Acacia nilotica* (L.) Willd.ex Delile subsp. *indica* (Benth.) Brenan / Babool | Mimosaceae | Tree | O |
| 9 | *Acacia torta* (Roxb.) Craib / Ail | Mimosaceae | Shrub | O |
| 10 | *Acalypha indica* L. / Kuppi | Euphorbiaceae | Herb | O |
| 11 | *Acanthospermum hispidum* DC. | Asteraceae | Herb | C |
| 12 | *Achyranthes aspera* L. / Chirchira | Amaranthaceae | Herb | C |
| 13 | *Acmella* *uliginosa* (Sw.) Cass. / Van-akarkara | Asteraceae | Herb | O |
| 14 | *Acrocephalus hispidus* (L.) Nicolson & Sivadasan | Lamiaceae | Herb | O |
| 15 | *Aegle marmelos* (L.) Correa / Bel | Rutaceae | Tree | O |
| 16 | *Aerva lanata* (L.) Juss. ex Schult. | Amaranthaceae | Herb | C |
| 17 | *Aerva sanguinolenta* (L.) Blume | Amaranthaceae | Herb | O |
| 18 | *Ageratum conyzoides* L. | Asteraceae | Herb | F |
| 19 | *Ageratum houstonianum* Mill. | Asteraceae | Herb | O |
| 20 | *Ailanthus excelsa* Roxb. / Arlu | Simaroubaceae | Tree | O |
| 21 | *Alangium salvifolium* (L. f.) Wang / Ankol | Cornaceae | Tree | C |
| 22 | *Albizia lebbeck* (L.) Benth / Kala Shirash | Mimosaceae | Tree | O |
| 23 | *Albizia odoratissima* (L. f.) Benth. / Chichva | Mimosaceae | Tree | C |
| 24 | *Albizia procera* (Roxb.) Benth. | Mimosaceae | Tree | O |
| 25 | *Alternanthera philoxeroides* (Mart.) Griseb. | Amaranthaceae | Herb | O |
| 26 | *Alternanthera pungens* Kunth | Amaranthaceae | Herb | O |
| 27 | *Alternanthera sessilis* (L.) R. Br. exDC. / Gudsakari | Amaranthaceae | Herb | F |
| 28 | *Alysicarpus homosus* Edgew. | Fabaceae | Herb | C |
| 29 | *Alysicarpus monilifer* (L.) DC. | Fabaceae | Herb | F |
| 30 | *Alysicarpus rugosus* (Willd.) DC. | Fabaceae | Herb | O |
| 31 | *Alysicarpus vaginalis* (L.) DC. | Fabaceae | Herb | F |
| 32 | *Amaranthus spinosus* L. | Amaranthaceae | Herb | O |
| 33 | *Ampelocissus latifolia* (Roxb.) Planch. / Amraula | Vitaceae | Climber | O |
| 34 | [*Andrographis echioides* (L.) Nees](http://www.theplantlist.org/tpl1.1/record/kew-2637044) | Acanthaceae | Herb | C |
| 35 | *Annona squamosa* L. / Sitaphal | Annonaceae | Shrub | O |
| 36 | *Anogeissus latifolia* (Roxb*.* ex DC.) Wall. exBedd. / Dhawa, Daawada | Combretaceae | Tree | C |
| 37 | *Anogeissus pendula* Edgew. / Kardhai | Combretaceae | Tree | O |
| 38 | *Apluda mutica* L. / Rathar | Poaceae | Herb | F |
| 39 | *Aristida adscensionis* L. | Poaceae | Herb | F |
| 40 | *Aristida redacta* Stapf | Poaceae | Herb | O |
| 41 | *Aristolochia indica* L. | Aristolochiaceae | Herb | R |
| 42 | *Arthraxon hispidus*(Thunb.) Makino | Poaceae | Herb | F |
| 43 | *Arthraxon lancifolius* (Trin.) Hochst. | Poaceae | Herb | F |
| 44 | *Arundinella pumila* (Hochst.) Steud. | Poaceae | Herb | O |
| 45 | *Arundo donax* L. | Poaceae | Herb | O |
| 46 | *Asparagus racemosus* Willd. / Satawar | Liliaceae | Climber | R |
| 47 | *Atylosia scarabaeoides* (L.) Benth. / Vankulthi | Fabaceae | Climber | C |
| 48 | *Azadirachta indica* A. Juss. / Neem | Meliaceae | Tree | O |
| 49 | *Bacopa monnieri* (L.) Wettst. / Bramhi | Scrophulariaceae | Herb | R |
| 50 | *Balanites aegyptiaca* (L.) Delile / Ingudi | Balanitaceae | Tree | O |
| 51 | *Baliospermum solanifolium*(Burm.) Suresh / Danti | Euphorbiaceae | Herb | O |
| 52 | *Barleria cristata* L. | Acanthaceae | Herb | C |
| 53 | *Barleria prionitis* L. / Katsariya | Acanthaceae | Shrub | O |
| 54 | *Bauhinia racemosa* Lam. / Kathmahula | Caesalpiniaceae | Tree | C |
| 55 | *Bauhinia vahlii* Wight & Arn*.* / Mahul | Caesalpiniaceae | Climber | O |
| 56 | *Bidens biternata* (Lour.) Merr. & Sherff. | Asteraceae | Herb | C |
| 57 | *Biophytum sensitivum* (L.) DC. / Lajalu | Oxalidaceae | Herb | C |
| 58 | *Blainvillea acmella* (L.) Philipson | Asteraceae | Herb | F |
| 59 | *Blepharis integrifolia* (L.f.) E. Mey. ex Schinz | Acanthaceae | Herb | C |
| 60 | *Blepharis maderaspatensis* (L.) Heyne ex Roth | Acanthaceae | Herb | C |
| 61 | *Blumea* *axillaris* (Lam.) DC. | Asteraceae | Herb | O |
| 62 | *Blumea lacera* (Burm. f*.*) DC. / Kukraudha | Asteraceae | Herb | O |
| 63 | *Blumea membranacea* DC. | Asteraceae | Herb | C |
| 64 | *Boerhavia diffusa* L. / Punarva | Nyctaginaceae | Herb | C |
| 65 | *Bombax ceiba* L. / Semal | Bombacaceae | Tree | O |
| 66 | *Boswellia serrata* Roxb. ex Colebr. / Semal | Burseraceae | Tree | O |
| 67 | [*Brachiaria reptans* (L.) C.A.Gardner & C.E.Hubb.](http://www.theplantlist.org/tpl1.1/record/kew-399734) | Poaceae | Herb | C |
| 68 | *Bridelia retusa* (L.) Spreng. / Kasai | Euphorbiaceae | Tree | O |
| 69 | [*Buchanania cochinchinensis* (Lour.) M.R.Almeida / Achaar, Chaar](http://www.theplantlist.org/tpl1.1/record/kew-2684767) | Anacardiaceae | Tree | O |
| 70 | *Butea monosperma* (Lam.) Taub. / Palash | Fabaceae | Tree | C |
| 71 | *Calotropis gigantea* (L.) R. Br. / Madar | Asclepiadaceae | Shrub | O |
| 72 | *Calotropis procera* (Aiton) R. Br. / Madar | Asclepiadaceae | Shrub | O |
| 73 | *Canscora decussata* (Roxb.) Roem & Schult. | Gentianaceae | Herb | O |
| 74 | *Canscora diffusa* (Vahl) R.Br. exRoem. & Schult. | Gentianaceae | Herb | C |
| 75 | *Capillipedium assimile* (Steud.) A. Camus | Poaceae | Herb | O |
| 76 | *Capparis sepiaria* L. | Capparaceae | Shrub | O |
| 77 | *Capparis zeylanica* L. / Karerua | Capparaceae | Climber | C |
| 78 | *Cardiospermum halicacabum* L*. /* Kanphuti | Sapindaceae | Climber | C |
| 79 | *Carissa opaca* Stapf ex Haines / Van-karauda | Apocynaceae | Shrub | C |
| 80 | *Carissa spinarum* L. / Van-karauda | Apocynaceae | Shrub | C |
| 81 | *Casearia graveolens* Dalzell/ Berri | Flacourtiaceae | Tree | O |
| 82 | *Casearia tomentosa* Roxb*.* / Berri | Flacourtiaceae | Tree | C |
| 83 | *Cassia fistula* L. / Amaltas | Caesalpiniaceae | Tree | C |
| 84 | *Cassine albens* (Retz.) Kosterm. / Jamrasi | Celastraceae | Tree | O |
| 85 | *Catunaregam spinosa* (Thunb.) Tirveng. / Mainhar | Rubiaceae | Shrub | O |
| 86 | *Cayratia trifolia* (L.) Domin | Vitaceae | Climber | C |
| 87 | *Celastrus paniculatus* Willd. / Malkangni | Celastraceae | Climber | O |
| 88 | *Celosia argentea* L. | Amaranthaceae | Herb | F |
| 89 | *Ceriscoides turgida*(Roxb.) Tirveng. / Kharhar | Rubiaceae | Tree | O |
| 90 | *Chamaecrista absus*(L.) Irwin & Barneby. | Caesalpiniaceae | Herb | F |
| 91 | *Chamaecrista mimosoides* (L.) Greene | Caesalpiniaceae | Herb | C |
| 92 | *Chamaecrista pumila* (Lam.) V. Singh | Caesalpiniaceae | Herb | C |
| 93 | *Chlorophytum arundinaceum* Baker / Safed Musli | Liliaceae | Herb | R |
| 94 | *Chrozophora rottleri* (Geiseler) Adr. | Euphorbiaceae | Herb | O |
| 95 | *Cissampelos pareira* L. / Padin | Menispermaceae | Climber | C |
| 96 | [*Cissus repanda* (Wight & Arn.) Vahl / Dokar-bel](http://www.theplantlist.org/tpl1.1/record/kew-2722846) | Vitaceae | Climber | O |
| 97 | *Cleome viscosa* L. / Hurhur | Capparaceae | Herb | O |
| 98 | [*Clerodendrum phlomidis* L.f. / Arni](http://www.theplantlist.org/tpl1.1/record/kew-42945) | Verbenaceae | Shrub | O |
| 99 | *Coccinia grandis* (L.) Voigt. / Kundru | Cucurbitaceae | Climber | C |
| 100 | *Cocculus hirsutus* (L.) Diels / Jaljamni | Menispermaceae | Climber | C |
| 101 | *Colebrookea oppositifolia* Sm. | Lamiaceae | Shrub | R |
| 102 | *Commelina benghalensis* L. | Commelinaceae | Herb | C |
| 103 | *Commicarpus chinensis* (L.) Heimerl | Nyctaginaceae | Herb | O |
| 104 | *Convolvulus arvensis* L. | Convolvulaceae | Climber | C |
| 105 | *Convolvulus prostratus* Forssk. / Shankhpushpi | Convolvulaceae | Herb | C |
| 106 | *Corchorus aestuans* L. | Tiliaceae | Herb | C |
| 107 | *Corchorus capsularis* L. | Tiliaceae | Herb | O |
| 108 | *Corchorus fascicularis* Lam. | Tiliaceae | Herb | C |
| 109 | *Corchorus tridens* L. | Tiliaceae | Herb | C |
| 110 | *Corchorus trilocularis* L. | Tiliaceae | Herb | C |
| 111 | *Cordia dichotoma* G.Forst./ Lasoda | Boraginaceae | Tree | O |
| 112 | *Cordia macleodii* Hook.f. & Thomson / Dahiman | Boraginaceae | Tree | R |
| 113 | [*Courtoisina cyperoides* (Roxb.) Soják Kuekenth.](http://www.theplantlist.org/tpl1.1/record/kew-234872) | Cyperaceae | Herb | O |
| 114 | *Crinum defixum* Ker-Gawl. | Amaryllidaceae | Herb | R |
| 115 | *Crotalaria hebecarpa* (DC.) Rudd. | Fabaceae | Herb | C |
| 116 | *Crotalaria orixensis* Rottler | Fabaceae | Herb | O |
| 117 | *Crotalaria prostrata* Rottler ex Willd. | Fabaceae | Herb | C |
| 118 | *Croton bonplandianus* Baill. | Euphorbiaceae | Herb | C |
| 119 | [*Cryptolepis dubia* (Burm.f.) M.R.Almeida / Dudhi](http://www.theplantlist.org/tpl1.1/record/kew-2746366) | Asclepiadaceae | Climber | C |
| 120 | *Cucumis* *melo* L. / Pehti | Cucurbitaceae | Herb | O |
| 121 | [*Cullen corylifolium* (L.) Medik. / Bakuchi](http://www.theplantlist.org/tpl1.1/record/ild-32569) | Fabaceae | Herb | O |
| 122 | *Curculigo orchioides* Gaertn. / Kali Musli | Hypoxidaceae | Herb | O |
| 123 | *Curcuma amada* Roxb. / Ama-haldi | Zingiberaceae | Herb | R |
| 124 | *Cuscuta reflexa* Roxb*.* / Amar-bel | Convolvulaceae | Parasite | O |
| 125 | *Cyanotis cristata* (L.) D. Don | Commelinaceae | Herb | O |
| 126 | [*Cyanthillium cinereum* (L.) H.Rob. / Sahdevi](http://www.theplantlist.org/tpl1.1/record/gcc-149577) | Asteraceae | Herb | C |
| 127 | *Cyathocline purpurea* ( Buch.-Ham. ex D. Don) Kuntze | Asteraceae | Herb | C |
| 128 | *Cynodon dactylon* (L.) Pers. / Doob | Poaceae | Herb | C |
| 129 | *Cyperus compressus* L. | Cyperaceae | Herb | O |
| 130 | *Cyperus difformis* L. | Cyperaceae | Herb | O |
| 131 | *Cyperus esculentus* L*.* | Cyperaceae | Herb | O |
| 132 | *Cyperus exaltatus* Retz. | Cyperaceae | Herb | O |
| 133 | *Cyperus iria* L. | Cyperaceae | Herb | O |
| 134 | *Cyperus platystylis* R. Br. | Cyperaceae | Herb | O |
| 135 | *Cyperus rotundus* L. / Nagar-motha | Cyperaceae | Herb | C |
| 136 | *Cyperus squarrosus* L. | Cyperaceae | Herb | C |
| 137 | *Dactyloctenium aegyptium* (L.) P. Beauv. | Poaceae | Herb | C |
| 138 | *Dalbergia latifolia* Roxb. / Sheesham | Fabaceae | Tree | R |
| 139 | *Dalbergia sissoo* Roxb. | Fabaceae | Tree | O |
| 140 | *Dendrocalamus strictus* (Roxb.) Nees / Baans | Poaceae | Tree | O |
| 141 | *Dendrophthoe falcata* (L. f.) Etting. / Banda | Loranthaceae | Parasite | O |
| 142 | *Desmodium dihotomum* (Willd.) DC. | Fabaceae | Herb | O |
| 143 | *Desmodium gangeticum* (L.) DC. / Salparni | Fabaceae | Herb | C |
| 144 | *Desmodium neomexicanum* A. Grey | Fabaceae | Herb | O |
| 145 | [*Desmodium oojeinense* (Roxb.) H.Ohashi / Tinsa](http://www.theplantlist.org/tpl1.1/record/ild-33085) | Fabaceae | Tree | R |
| 146 | *Desmodium triflorum* (L.) DC. | Fabaceae | Herb | C |
| 147 | *Desmodium velutinum* (Willd.) DC. | Fabaceae | Shrub | O |
| 148 | *Desmostachya bipinnata* (L.) Stapf / Kusa | Poaceae | Herb | O |
| 149 | *Dichanthium annulatum* (Forssk.) Stapf | Poaceae | Herb | C |
| 150 | *Dichanthium aristatum* (Poir.) Hubb. | Poaceae | Herb | C |
| 151 | *Dichrostachys cinerea* (L.) Wight & Arn. / Khejari | Mimosaceae | Tree | O |
| 152 | [*Dicliptera paniculata* (Forssk.) I.Darbysh.](http://www.theplantlist.org/tpl1.1/record/kew-2604162) | Acanthaceae | Herb | C |
| 153 | *Dicliptera verticillata*(Forssk.) C.Chr. | Acanthaceae | Herb | C |
| 154 | *Digera muricata* (L.) Mart. | Amaranthaceae | Herb | C |
| 155 | *Digitaria abludens* (Roem. & Schult.) Veldk. | Poaceae | Herb | O |
| 156 | *Digitaria bicornis* (Lam.) Roem. & Schult. ex Loud | Poaceae | Herb | O |
| 157 | *Digitaria ciliaris* (Retz.) Koeler | Poaceae | Herb | C |
| 158 | *Dinebra retroflexa* (Vahl) Paz. | Poaceae | Herb | C |
| 159 | *Dioscorea bulbifera* L. / Barahi-kand | Dioscoreaceae | Climber | C |
| 160 | *Dioscorea pentaphylla* L. | Dioscoreaceae | Climber | O |
| 161 | *Diospyros cordifolia* Roxb. | Ebenaceae | Tree | O |
| 162 | *Diospyros melanoxylon* Roxb. | Ebenaceae | Tree | C |
| 163 | *Diplocyclos palmatus* (L.) Jeffery / Shivlingi | Cucurbitaceae | Climber | O |
| 164 | *Dipteracanthus prostratus* (Poir.) Nees | Acanthaceae | Herb | C |
| 165 | *Dolichandrone falcata* (Wall. ex DC.) Seem. / Tamoli | Bignoniaceae | Tree | O |
| 166 | *Echinops echinatus* Roxb. / Utkatara | Asteraceae | Herb | O |
| 167 | *Eclipta prostrata* (L.) L. / Ghamira | Asteraceae | Herb | C |
| 168 | *Ehretia laevis* Roxb. / Chamrol | Boraginaceae | Tree | O |
| 169 | *Eleocharis congesta* D. Don | Cyperaceae | Herb | O |
| 170 | *Eleocharis geniculata* (L.) Roem. & Schult | Cyperaceae | Herb | O |
| 171 | *Eleocharis spiralis* (Rottb.) Roem. & Schult. | Cyperaceae | Herb | O |
| 172 | *Elephantopus scaber* L. | Asteraceae | Herb | C |
| 173 | *Eleusine indica* (L.) Gaertn. | Poaceae | Herb | O |
| 174 | *Elytraria acaulis* (L*.* f.) Lindau | Acanthaceae | Herb | O |
| 175 | *Emilia sonchifolia* (L.) DC. | Asteraceae | Herb | C |
| 176 | *Eragrostiella bifaria* (Vahl) Bor | Poaceae | Herb | O |
| 177 | *Eragrostis ciliaris* (L.) R. Br. | Poaceae | Herb | C |
| 178 | *Eragrostis coarctata* Stapf | Poaceae | Herb | O |
| 179 | *Eragrostis diarrhena* (Schult.) Steud. | Poaceae | Herb | O |
| 180 | *Eragrostis japonica* (Thunb.) Trin. | Poaceae | Herb | C |
| 181 | *Eranthemum purpurascens* Wight ex Nees | Acanthaceae | Herb | O |
| 182 | *Eriocaulon quinquangulare* L. | Eriocaulaceae | Herb | C |
| 183 | *Eriolaena candollei* Wall. / Mothi | Sterculiaceae | Shrub | R |
| 184 | *Euphorbia chamaesyce* L. / Dudhi | Euphorbiaceae | Herb | O |
| 185 | *Euphorbia heterophylla* L*.* | Euphorbiaceae | Herb | C |
| 186 | *Euphorbia hirta* L. / Dudhi | Euphorbiaceae | Herb | C |
| 187 | *Euphorbia hypericifolia* L. | Euphorbiaceae | Herb | C |
| 188 | *Euphorbia neriifolia* L. / Sehud | Euphorbiaceae | Shrub | O |
| 189 | *Euphorbia thymifolia* L. | Euphorbiaceae | Herb | O |
| 190 | *Evolvulus alsinoides* (L.) L. / Neeli Shankhpushpi | Convolvulaceae | Herb | O |
| 191 | *Evolvulus nummularius* (L.) L. | Convolvulaceae | Herb | C |
| 192 | *Ficus benghalensis* L. / Bargad | Moraceae | Tree | O |
| 193 | *Ficus hispida* L. f*.* / Kathumar | Moraceae | Tree | O |
| 194 | *Ficus mollis* Vahl | Moraceae | Tree | O |
| 195 | *Ficus racemosa* L. / Gular | Moraceae | Tree | O |
| 196 | *Ficus religiosa* L. / Peepal | Moraceae | Tree | O |
| 197 | *Ficus virens* Dryander / Pakar | Moraceae | Tree | O |
| 198 | *Fimbristylis bisumbellata* (Forssk.) Bubani | Cyperaceae | Herb | C |
| 199 | *Fimbristylis dichotoma* (L.) Vahl | Cyperaceae | Herb | C |
| 200 | *Fimbristylis littoralis* Gaud. | Cyperaceae | Herb | O |
| 201 | *Fimbristylis miliacea* (L.) Vahl | Cyperaceae | Herb | C |
| 202 | *Fimbristylis ovata* (Burm. f*.*) Kern | Cyperaceae | Herb | C |
| 203 | [*Firmiana simplex* (L.) W.Wight / Kullu](http://www.theplantlist.org/tpl1.1/record/kew-2813006) | Sterculiaceae | Tree | R |
| 204 | *Flacourtia indica* (Burm. f*.*) Merr. / Kakai | Flacourtiaceae | Tree | C |
| 205 | *Gardenia latifolia* Ait. / Papda | Rubiaceae | Tree | O |
| 206 | *Garuga pinnata* Roxb. / Kekar | Burseraceae | Tree | O |
| 207 | *Gloriosa superba* L. / Kalihari | Liliaceae | Climber | R |
| 208 | *Gmelina arborea* Roxb. / Khamer | Verbenaceae | Tree | R |
| 209 | *Gnaphalium pensylvanicum* Willd. | Asteraceae | Herb | C |
| 210 | *Gnaphalium polycaulon* Pers. | Asteraceae | Herb | O |
| 211 | *Gomphrena celosioides* Mart. | Asteraceae | Herb | O |
| 212 | *Grangea maderaspatana* (L.) Poir. | Asteraceae | Herb | C |
| 213 | *Grewia flavescens* Juss. / Sirali | Tiliaceae | Shrub | C |
| 214 | *Grewia hirsuta* Vahl / Gudsakari | Tiliaceae | Shrub | C |
| 215 | *Grewia rothii* DC*.* / Gangeran | Tiliaceae | Shrub | R |
| 216 | *Grewia tiliifolia* Vahl / Dhamin, Dhankat | Tiliaceae | Tree | R |
| 217 | *Gymnema sylvestre* (Retz.) R. Br. exSchult. / Gudmar | Asclepiadaceae | Climber | R |
| 218 | *Haldina cordifolia* (Roxb.) Ridsd. / Haldu | Rubiaceae | Tree | O |
| 219 | *Helicteres isora* L. / Madorphali | Sterculiaceae | Shrub | C |
| 220 | *Heliotropium zeylanicum* (Burm*.* f*.*) Lam. | Boraginaceae | Herb | O |
| 221 | *Hemidesmus indicus* (L.) R. Br. / Dudhi | Asclepiadaceae | Climber | O |
| 222 | *Heteropogon contortus* (L.) P. Beauv. ex Roem. & Schult. | Poaceae | Herb | F |
| 223 | *Hibiscus lobatus* (Murraya) Kuntze | Malvaceae | Herb | C |
| 224 | [*Hibiscus micranthus* L.f.](http://www.theplantlist.org/tpl1.1/record/kew-2850190) | Malvaceae | Shrub | O |
| 225 | *Hibiscus panduriformis* Burm. f. | Malvaceae | Herb | C |
| 226 | *Hiptage benghalensis* **(**L.) Kurz | Malpighiaceae | Climber | R |
| 227 | *Holarrhena pubescens* Wall. *ex* G. Don / Kurraya, Kurchi | Apocynaceae | Tree | O |
| 228 | *Holoptelea integrifolia* (Roxb.) Planch. / Chilbil | Ulmaceae | Tree | C |
| 229 | *Holostemma ada-kodien* Schult. | Asclepiadaceae | Climber | O |
| 230 | *Hoppea dichotoma* HeyneexWilld. | Gentianaceae | Herb | C |
| 231 | *Hybanthus enneaspermus* (L.) F.v. Muell. | Violaceae | Herb | C |
| 232 | *Hydrilla verticillata* (L. f.) Royel | Hydrocharitaceae | Herb | F |
| 233 | *Hygrophila auriculata* (Schumach.) Heine / Taalmakahan | Acanthaceae | Herb | C |
| 234 | *Hygrophila polysperma* (Roxb.) T. Anderson | Acanthaceae | Herb | F |
| 235 | *Hygrophila serpyllum* (Nees) T. Anderson | Acanthaceae | Herb | R |
| 236 | *Hyptis suaveolens* (L.) Poit. / Janglee-tulsi | Lamiaceae | Herb | F |
| 237 | [*Ichnocarpus frutescens* (L.) W.T.Aiton / Dhimar-bel](http://www.theplantlist.org/tpl1.1/record/kew-102359) | Apocynaceae | Climber | C |
| 238 | *Indigofera astragalina* DC. | Fabaceae | Herb | O |
| 239 | *Indigofera cordifolia* Heyne exRoth | Fabaceae | Herb | C |
| 240 | *Indigofera linifolia* (L. f*.*) Retz. | Fabaceae | Herb | C |
| 241 | *Indigofera linnaei* Ali | Fabaceae | Herb | C |
| 242 | *Indigofera tinctoria* L. / Neel | Fabaceae | Shrub | O |
| 243 | *Indigofera trita* L. f*.* | Fabaceae | Herb | O |
| 244 | *Ipomoea aquatica* Forssk. / Karemua | Convolvulaceae | Herb | C |
| 245 | *Ipomoea eriocarpa* R. Br. | Convolvulaceae | Herb | O |
| 246 | *Ipomoea hederifolia* L. | Convolvulaceae | Climber | O |
| 247 | *Ipomoea nil* (L.) Roth / Kala-dana | Convolvulaceae | Climber | C |
| 248 | *Ipomoea obscura* (L.) Ker-Gawl. | Convolvulaceae | Climber | C |
| 249 | *Ipomoea pes-tigridis* L. | Convolvulaceae | Climber | O |
| 250 | *Ipomoea sinensis* (Desr.) Choisy | Convolvulaceae | Herb | O |
| 251 | *Ischaemum rugosum* Salisb. | Poaceae | Herb | C |
| 252 | *Iseilema laxum* Hack. | Poaceae | Herb | C |
| 253 | *Iseilema prostratum* (L.) Anderss. | Poaceae | Herb | C |
| 254 | *Ixora pavetta* Andrews / Khujjha | Rubiaceae | Shrub | O |
| 255 | *Juncellus pygmaeus*(Rottb.) C.B.Clarke | Cyperaceae | Herb | O |
| 256 | *Justicia diffusa* Willd. var. *diffusa* | Acanthaceae | Herb | C |
| 257 | *Justicia prostrata* (C.B. Clarke) Gamble | Acanthaceae | Herb | C |
| 258 | *Justicia quinqueangularis* Koenig ex Roxb. | Acanthaceae | Herb | O |
| 259 | *Kydia calycina* Roxb. / Barga, Kapsia | Malvaceae | Tree | O |
| 260 | *Kyllinga brevifolia* Rottb. | Cyperaceae | Herb | C |
| 261 | *Lagascea mollis* Cav. | Asteraceae | Herb | O |
| 262 | *Lagerstroemia parviflora* Roxb. / Sendha | Lythraceae | Tree | C |
| 263 | *Lannea coromandelica* (Houtt.) Merr*.* / Gurja, Jingan | Anacardiaceae | Tree | C |
| 264 | *Lantana camara* L. | Verbenaceae | Shrub | F |
| 265 | *Launaea procumbens* (Roxb.) Ramayya & Rajagopal | Asteraceae | Herb | O |
| 266 | *Leonotis nepetifolia* (L.) R. Br. | Lamiaceae | Herb | O |
| 267 | *Lepidagathis cristata* Willd. / Sherbaithika | Acanthaceae | Herb | O |
| 268 | *Lepidagathis trinervis* Wall. ex Nees | Acanthaceae | Herb | C |
| 269 | *Leucas aspera* (Willd.) Link | Lamiaceae | Herb | O |
| 270 | *Leucas cephalotes* (Koenig exRoth) Spreng. | Lamiaceae | Herb | O |
| 271 | *Leucas decemdentata* (Willd.) R.Br. ex Sm. | Lamiaceae | Herb | C |
| 272 | *Limnophila indica* (L.) Druce | Scrophulariaceae | Herb | O |
| 273 | *Limonia acidissima* L. / Kaitha | Rutaceae | Tree | O |
| 274 | *Lindenbergia indica* (L.) Vatke | Scrophulariaceae | Herb | O |
| 275 | *Lindernia antipoda* (L.) Alston | Scrophulariaceae | Herb | O |
| 276 | *Lindernia ciliata* (Colsm.) Pennell | Scrophulariaceae | Herb | O |
| 277 | *Lindernia crustacea* (L.) F.v. Muell. | Scrophulariaceae | Herb | C |
| 278 | *Litsea glutinosa* (Lour.) Robinson | Lauraceae | Tree | R |
| 279 | *Lobelia alsinoides* Lam. | Campanulaceae | Herb | O |
| 280 | *Ludwigia adscendens* (L.) Hara | Onagraceae | Herb | O |
| 281 | *Ludwigia hyssopifolia* (G. Don) Presl | Onagraceae | Herb | C |
| 282 | *Ludwigia octovalvis* (Jacq.) Raven | Onagraceae | Herb | C |
| 283 | *Ludwigia perennis* L. | Onagraceae | Herb | C |
| 284 | *Lysiloma* *latisiliquum* (L.) Benth. | Mimosaceae | Tree | P |
| 285 | *Madhuca longifolia* (J. Koenig) Macbr. var. *latifolia* (Roxb.) Chevalier / Mahua | Sapotaceae | Tree | C |
| 286 | *Mallotus philippensis* (Lam.) Muell. Arg. / Sinduri | Euphorbiaceae | Tree | O |
| 287 | *Malvastrum coromandelianum* (L.) Garcke | Malvaceae | Herb | C |
| 288 | *Manilkara hexandra* (Roxb.) Dubard / Khirni | Sapotaceae | Tree | O |
| 289 | *Mariscus concinnus*Scharder ex Nees | Cyperaceae | Herb | O |
| 290 | *Mariscus squarrosus*(L.) C.B.Clarke | Cyperaceae | Herb | O |
| 291 | *Marsdenia tenacissima* (Roxb.) Moon / Chinahur | Asclepiadaceae | Climber | O |
| 292 | *Martynia annua* L. / Bagnakha | Pedaliaceae | Herb | O |
| 293 | *Maytenus emarginata* (Willd.) Ding-Hou / Baikal | Celastraceae | Shrub | O |
| 294 | *Mazus pumilus* (Burm.f*.*) Steenis | Scrophulariaceae | Herb | O |
| 295 | *Mecardonia procumbens* (Mill.) Small | Scrophulariaceae | Herb | O |
| 296 | *Melanocenchris jacquemontii* Jaub. & Spach | Poaceae | Herb | O |
| 297 | *Melochia corchorifolia* L. | Sterculiaceae | Herb | O |
| 298 | *Merremia aegyptia* (L.) Urb. | Convolvulaceae | Climber | O |
| 299 | *Merremia emarginata* (Burm. f.) Hallier f. | Convolvulaceae | Herb | O |
| 300 | *Merremia tridentata* (L.) Hallier f. | Convolvulaceae | Herb | O |
| 301 | *Miliusa tomentosa* (Roxb.) Sinclair / Kari | Annonaceae | Tree | O |
| 302 | *Millettia extensa* (Benth.) Baker / Guhilari | Fabaceae | Climber | O |
| 303 | *Mimosa himalayana* Gamble / Ail | Mimosaceae | Tree | O |
| 304 | *Mitragyna parvifolia* (Roxb.) Korth. / Kaima | Rubiaceae | Tree | O |
| 305 | *Mollugo pentaphylla* L. | Molluginaceae | Herb | O |
| 306 | *Momordica dioica* Roxb. ex Willd. / Padora | Cucurbitaceae | Climber | O |
| 307 | *Morinda pubescens* Sm. | Rubiaceae | Tree | O |
| 308 | *Mucuna pruriens* (L.) DC. / Van-kewach | Fabaceae | Climber | O |
| 309 | *Mukia maderaspatana* (L.) Roem. | Cucurbitaceae | Herb | O |
| 310 | *Murdannia nudiflora* (L.) Brenan | Commelinaceae | Herb | C |
| 311 | *Murdannia spirata* (L.) Brückner | Commelinaceae | Herb | O |
| 312 | *Murdannia vaginata* (L.) Brückner | Commelinaceae | Herb | O |
| 313 | *Murraya paniculata* (L.) Jacq. / Hathil | Rutaceae | Shrub | O |
| 314 | [*Nanorrhinum ramosissimum* (Wall.) Betsche](http://www.theplantlist.org/tpl1.1/record/kew-2382576) | Scrophulariaceae | Herb | O |
| 315 | *Naringi crenulata* (Roxb.) Nicolson / Billi, Bilsena | Rutaceae | Tree | R |
| 316 | *Nepeta hindostana* (Heyne ex Roth) Haines | Lamiaceae | Herb | O |
| 317 | *Nothosaerva brachiata* (L.) Wight | Amaranthaceae | Herb | O |
| 318 | *Nyctanthes arbor–tristis* L. / Khirsali | Oleaceae | Shrub | C |
| 319 | *Nymphaea nouchali* Burm. f. | Nymphaeaceae | Herb | O |
| 320 | *Nymphaea pubescens* Willd. | Nymphaeaceae | Herb | O |
| 321 | *Nymphoides hydrophylla* (Lour.) Kuntze | Menyanthaceae | Herb | O |
| 322 | *Ocimum americanum* L. / Mahri | Lamiaceae | Herb | C |
| 323 | [*Oldenlandia affinis* (Roem. & Schult.) DC.](http://www.theplantlist.org/tpl1.1/record/kew-138198) | Rubiaceae | Herb | C |
| 324 | [*Oldenlandia corymbosa* L.](http://www.theplantlist.org/tpl1.1/record/kew-138322) | Rubiaceae | Herb | C |
| 325 | [*Oldenlandia ovatifolia* (Cav.) DC.](http://www.theplantlist.org/tpl1.1/record/kew-138625) | Rubiaceae | Herb | O |
| 326 | *Operculina turpethum* (L.) Silva Manso / Nisoth | Convolvulaceae | Climber | O |
| 327 | *Ophiuros exaltatus* (L.) Kuntze | Poaceae | Herb | O |
| 328 | *Oplismenus burmannii* (Retz.) P. Beauv. | Poaceae | Herb | F |
| 329 | *Oplismenus compositus* (L.) P. Beauv. | Poaceae | Herb | O |
| 330 | *Orthosiphon pallidus* Royle ex Benth. | Lamiaceae | Herb | O |
| 331 | *Oxalis corniculata* L. | Oxalidaceae | Herb | C |
| 332 | *Paspalidium flavidum* (Retz.) A. Camus | Poaceae | Herb | O |
| 333 | *Paspalum vaginatum* Sw. | Poaceae | Herb | O |
| 334 | *Pavonia zeylanica* (L.) Cav. | Malvaceae | Herb | O |
| 335 | *Pennisetum pedicellatum* Trin. | Poaceae | Herb | O |
| 336 | *Pentanema indicum* (L.) Ling | Asteraceae | Herb | C |
| 337 | *Pergularia daemia* (Forssk.) Chiov. / Dudhi-bel | Asclepiadaceae | Climber | O |
| 338 | [*Persicaria barbata* (L.) H.Hara](http://www.theplantlist.org/tpl1.1/record/kew-2572009) | Polygonaceae | Herb | C |
| 339 | [*Persicaria glabra* (Willd.) M.Gómez](http://www.theplantlist.org/tpl1.1/record/kew-2572531) | Polygonaceae | Herb | C |
| 340 | *Petalidium barlerioides* (Roth) Nees | Acanthaceae | Shrub | O |
| 341 | *Phoenix sylvestris* (L.) Roxb. / Chind, Khajoor | Arecaceae | Tree | O |
| 342 | *Phragmites karka* (Retz.) Trin.ex Steud. | Poaceae | Herb | O |
| 343 | *Phyla nodiflora* (L.) E. Greene | Verbenaceae | Herb | C |
| 344 | *Phyllanthus amarus* Schumach. & Thonn. / Bhui-amla | Euphorbiaceae | Herb | C |
| 345 | *Phyllanthus emblica* L. / Amla | Euphorbiaceae | Tree | C |
| 346 | *Phyllanthus maderaspatensis* L. | Euphorbiaceae | Herb | C |
| 347 | *Phyllanthus reticulatus* Poir. | Euphorbiaceae | Shrub | O |
| 348 | *Phyllanthus urinaria* L. / Bhui-amla | Euphorbiaceae | Herb | C |
| 349 | *Phyllanthus virgatus* G.Forst. / Bhui-amla | Euphorbiaceae | Herb | O |
| 350 | [*Phyllodium pulchellum* (L.) Desv.](http://www.theplantlist.org/tpl1.1/record/ild-32701) | Fabaceae | Shrub | O |
| 351 | *Physalis minima* L. / Chirpota | Solanaceae | Herb | O |
| 352 | [*Physalis peruviana* L. / Chirpota](http://www.theplantlist.org/tpl/record/kew-2549655) | Solanaceae | Herb | O |
| 353 | *Pithecellobium dulce* (Roxb.) Benth. / Jangal-jalebee | Mimosaceae | Tree | O |
| 354 | *Plumbago zeylanica* L. / Chitrak | Plumbaginaceae | Shrub | R |
| 355 | *Polycarpon prostratum* (Forssk.) Asch. & Schweinf. | Caryophyllaceae | Herb | O |
| 356 | *Polygala arvensis* Willd. | Polygalaceae | Herb | O |
| 357 | *Polygala erioptera* DC. | Polygalaceae | Herb | O |
| 358 | *Polygonum plebeium* R. Br. | Polygonaceae | Herb | C |
| 359 | *Polypogon monspeliensis* (L.) Desf. | Poaceae | Herb | C |
| 360 | *Pongamia pinnata* (L.) Pierre / Karanj | Fabaceae | Tree | O |
| 361 | *Porana paniculata* Roxb. | Convolvulaceae | Climber | O |
| 362 | *Potamogeton crispus* L. | Potamogetonaceae | Herb | O |
| 363 | *Potamogeton nodosus* Poir. | Potamogetonaceae | Herb | O |
| 364 | *Potamogeton pectinatus* L. | Potamogetonaceae | Herb | C |
| 365 | *Pterospermum acerifolium* (L.) Willd. | Fabaceae | Tree | P |
| 366 | *Pulicaria angustifolia* DC. | Asteraceae | Herb | O |
| 367 | *Pupalia lappacea* (L.) Juss. | Amaranthaceae | Herb | C |
| 368 | *Pycreus flavidus*(Retz.) Koyama | Cyperaceae | Herb | C |
| 369 | *Rhynchosia capitata* DC. | Fabaceae | Herb | C |
| 370 | *Rhynchosia minima* (L.) DC. | Fabaceae | Herb | C |
| 371 | *Rivea hypocrateriformis* (Desr.) Choisy | Convolvulaceae | Climber | O |
| 372 | *Rorippa indica* (L.) Hiern | Brassicaceae | Herb | O |
| 373 | *Rotala indica* (Willd.) Koehne | Lythraceae | Herb | O |
| 374 | *Rotala rotundifolia* (Roxb.) Koehne | Lythraceae | Herb | O |
| 375 | *Rungia pectinata* (L.) Nees | Acanthaceae | Herb | C |
| 376 | *Rungia repens* (L.) Nees | Acanthaceae | Herb | C |
| 377 | *Saccharum bengalense* Retz. | Poaceae | Herb | O |
| 378 | *Saccharum spontaneum* L. / Kaas | Poaceae | Herb | C |
| 379 | *Sacciolepis indica* (L.) Chase | Poaceae | Herb | O |
| 380 | *Salvia plebeia* R. Br. | Lamiaceae | Herb | O |
| 381 | *Santalum album* L. | Santalaceae | Tree | P |
| 382 | *Schoenefeldia gracilis* Kunth | Poaceae | Herb | R |
| 383 | *Scirpus articulatus* L. | Cyperaceae | Herb | O |
| 384 | *Scirpus juncoides* Roxb. | Cyperaceae | Herb | O |
| 385 | *Scirpus lateriflorus* J.F. Gmelin | Cyperaceae | Herb | O |
| 386 | *Scoparia dulcis* L. | Scrophulariaceae | Herb | O |
| 387 | *Securinega virosa* (Roxb. ex Willd.) Baill. | Euphorbiaceae | Shrub | O |
| 388 | *Senna obtusifolia*(L.) Irwin & Barneby | Caesalpiniaceae | Herb | O |
| 389 | *Senna occidentalis*(L.) Link / Kasaudhi | Caesalpiniaceae | Shrub | O |
| 390 | *Senna tora*(L.) Roxb. / Chakauda | Caesalpiniaceae | Herb | C |
| 391 | *Setaria glauca* (L.) P. Beauv. | Poaceae | Herb | C |
| 392 | *Setaria intermedia* Roem. & Schult. | Poaceae | Herb | O |
| 393 | *Setaria verticillata* (L.) P. Beauv. | Poaceae | Herb | C |
| 394 | *Sida acuta* Burm*.* f. / Bariyari | Malvaceae | Herb | C |
| 395 | *Sida cordata* (Burm. f.) Borss. | Malvaceae | Herb | C |
| 396 | *Sida cordifolia* L. / Khareti | Malvaceae | Herb | O |
| 397 | *Sida rhombifolia* L. | Malvaceae | Herb | C |
| 398 | *Sigesbeckia orientalis* L. | Asteraceae | Herb | O |
| 399 | *Smilax zeylanica* L. / Ramdatoun | Smilacaceae | Climber | R |
| 400 | *Smithia conferta* Sm. | Fabaceae | Herb | O |
| 401 | *Solanum incanum* L. / Van-bhanta | Solanaceae | Shrub | O |
| 402 | *Solanum nigrum* L. / Makoy | Solanaceae | Herb | C |
| 403 | *Solanum virginianum* L. / Bhatkatiya | Solanaceae | Herb | C |
| 404 | *Solena amplexicaulis*(Lam.) Gandhi | Cucurbitaceae | Herb | O |
| 405 | *Sopubia delphiniifolia* (L.) G. Don | Scrophulariaceae | Herb | O |
| 406 | *Soymida febrifuga* (Roxb.) A. Juss. / Rohina | Meliaceae | Tree | O |
| 407 | *Spermacoce hispida* L. | Rubiaceae | Herb | O |
| 408 | *Spermacoce pusilla* Wall*.* | Rubiaceae | Herb | O |
| 409 | *Sphaeranthus indicus* L. / Gorakhmundi | Asteraceae | Herb | C |
| 410 | *Sporobolus diander* (Retz.) P. Beauv. | Poaceae | Herb | C |
| 411 | *Sporobolus fertilis* (Steud.) W.D. Clayton | Poaceae | Herb | O |
| 412 | *Sporobolus tenuissimus* (Schrank) Kuntze | Poaceae | Herb | O |
| 413 | *Streblus asper* Lour. | Moraceae | Tree | O |
| 414 | *Syzygium cumini* (L.) Skeels / Jamun | Myrtaceae | Tree | O |
| 415 | *Syzygium heyneanum* Wallich ex Wight & Arnott | Myrtaceae | Tree | O |
| 416 | *Tamarindus indica* L. / Imli | Caesalpiniaceae | Tree | O |
| 417 | *Tephrosia pumila* (Lam.) Pers. | Fabaceae | Herb | O |
| 418 | *Tephrosia purpurea* (L.) Pers. / Sarpunkha | Fabaceae | Herb | C |
| 419 | *Teramnus labialis* (L.f*.*) Spreng. | Fabaceae | Climber | C |
| 420 | *Teramnus mollis* Benth. | Fabaceae | Herb | O |
| 421 | *Terminalia alata* Heyneex Roth / Saja | Combretaceae | Tree | O |
| 422 | *Terminalia arjuna* (Roxb. ex DC.) Wight & Arn. / Arjun, Kahu | Combretaceae | Tree | C |
| 423 | *Terminalia bellirica* (Gaertn.) Roxb. / Baheda | Combretaceae | Tree | O |
| 424 | *Terminalia chebula* Retz. / Harra | Combretaceae | Tree | R |
| 425 | *Themeda quadrivalvis* (L.) Kuntze | Poaceae | Herb | F |
| *426* | *Thespesia lampas* (Cav.) Dalz. & Gibs. / Ban-kapas | Malvaceae | Shrub | O |
| 427 | *Tiliacora acuminata* (Lam.) Miers | Menispermaceae | Climber | O |
| 428 | [*Tinospora sinensis* (Lour.) Merr. / Giloy](http://www.theplantlist.org/tpl1.1/record/tro-20600675) | Menispermaceae | Climber | O |
| 429 | *Tragus roxburghii* Panigrahi | Poaceae | Herb | O |
| 430 | *Tridax procumbens* L. / Ghavpala | Asteraceae | Herb | C |
| 431 | *Triumfetta pentandra* A. Rich. / Bala | Tiliaceae | Herb | C |
| 432 | *Triumfetta rhomboidea* Jacq. | Tiliaceae | Herb | O |
| 433 | *Triumfetta rotundifolia* Lam. | Tiliaceae | Shrub | O |
| 434 | *Uraria picta* (Jacq.) Desv. / Pithwan | Fabaceae | Herb | R |
| 435 | *Urena lobata* L. | Malvaceae | Shrub | C |
| 436 | *Urginea indica* (Roxb.) Kunth / Van-payaj | Liliaceae | Herb | C |
| 437 | [*Utricularia stellaris* L.f.](http://www.theplantlist.org/tpl1.1/record/kew-2449717) | Lentibulariaceae | Herb | O |
| 438 | *Vallaris solanacea* (Roth) Kuntze / Dudhi-bel | Apocynaceae | Climber | O |
| 439 | *Vanda tessellata* (Roxb.) Hook. ex G. Don / Band | Orchidaceae | Parasite | O |
| 440 | *Ventilago denticulata* Willd. / Kevti | Rhamnaceae | Climber | O |
| 441 | *Vetiveria zizanioides* (L.) Nash / Khas | Poaceae | Herb | O |
| 442 | *Vigna umbellata* (Thunb.) Ohwi & Ohashi | Fabaceae | Herb | O |
| 443 | *Vitex negundo* L. / Nirgundi | Verbenaceae | Shrub | O |
| 444 | *Waltheria indica* L. | Sterculiaceae | Herb | C |
| 445 | *Woodfordia fruticosa* (L.) Kurz / Dhawai | Lythraceae | Shrub | C |
| 446 | *Wrightia tinctoria* R. Br. ssp. *rothii* (G. Don) Ngan / Dudhi | Apocynaceae | Tree | C |
| 447 | *Xanthium indicum* Koen. / Gochhhuru | Asteraceae | Herb | F |
| 448 | *Ziziphus mauritiana* Lam. / Ber | Rhamnaceae | Tree | O |
| 449 | *Ziziphus nummularia* (Burm. f*.*) Wight & Arn. / Jharberi | Rhamnaceae | Shrub | C |
| 450 | *Ziziphus oenoplia* (L.) Mill. / Barari | Rhamnaceae | Shrub | C |
| 451 | *Ziziphus xylopyra* (Retz.) Willd. / Ghothar | Rhamnaceae | Tree | O |
| 452 | *Zornia gibbosa* Span. | Fabaceae | Herb | O |

**Abbreviation:** Common (C), Frequent (F), Occasional (O), Rare (R), Planted (P)

**Discussion**

The present study reveals that 452 species of angiosperms under 300 genera belonging to 80 families are found in Ghughua Fossil Park, Madhya Pradesh. Out of these 97 species in 62 genera and 13 families belong to monocot and 355 species in 238 genera and 67 families belong to dicot (Fig. 1).

Fig.1. Status of families, genera and species in

Ghughua Fossil Park

Dominant families (Fig. 2) with maximum number of species found in the park are Poaceae (48 spp.), Fabaceae (40 spp.), Asteraceae (27 spp.), Cyperaceae (25 spp.), Acanthaceae (21 spp.), Euphorbiaceae (19 spp.), Convolvulaceae (18 spp.), Malvaceae (15 spp.), Mimosaceae and Rubiaceae (12 spp. each).

Fig. 2. Ten dominant families in Ghughua Fossil Park

An analysis has further pointed out that ten dominant genera (Fig. 3) with maximum number of species in the district are *Cyperus* (8 spp.), *Ipomoea* (7 spp.), *Desmodium*, *Ficus,* *Indigofera, Euphorbia, Phyllanthus* (6 spp. each), *Acacia, Corchorus* and *Eragrostis* (5 spp. each).

The 10 species are found in restricted area of the park and their population is very poor, represented by very few individuals. These are *Abrus precatorius, Aristolochia indica* L., *Bacopa monnieri* (L.) Wettst., *Cordia macleodii* Hook.f. & Thomson, *Gloriosa superba* L., *Gmelina arborea* Roxb., *Gymnema sylvestre* (Retz.) R. Br. ex Schult., *Litsea glutinosa* (Lour.) Robinson, *Plumbago zeylanica* L. and *Uraria picta* (Jacq.) Desv. Thus, the present findings are highly significant as these provide the latest status of angiospermic plant wealth of the park which will be useful to botanists, foresters and planners.

Fig. 3. Dominant genera of in Ghughua Fossil Park

Out of a total number of 452 species of angiosperms, 283 species are herbs, 40 species are shrubs, 83 species are trees, 43 species are climbers and 3 species are parasites in (Fig. 4).

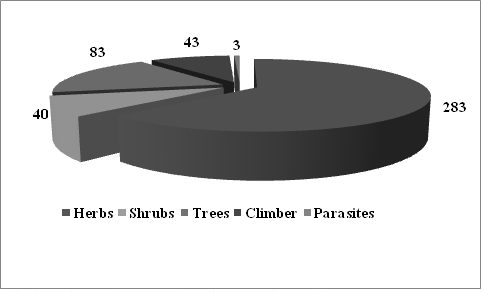


Fig. 4. Habit-wise distribution of flowering plants in

Ghughua Fossil Park

The data of field observation have pointed out that 244 species are occasional, 159 species are common, 27 species are rare, 19 species are frequent and 3 species are planted in the park. (Fig. 5).

Fig. 5. Status of flowering plants in Ghughua Fossil

Park

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**Corresponding Author:**

Dr. Arjun Prasad Tiwari

Botanical Survey of India, Central Regional Centre

10 Chatham Lines, Allahabad-211002

Telephone: 918004392787

E-mail: [arjuntiwari2007@gmail.com](mailto:arjuntiwari2007@gmail.com)

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