



Trees and Shrubs of Saharanpur, Botanical Garden, India

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Abstract

The study records the occurrence and enumeration of 235 dendroids belonging to 168 genera and 39 families in Saharanpur Botanical Garden. Out of the 235 species reported, trees are represented by 173 plants followed by 59 shrubs and 3 climbers. Moraceae are having the predominance in this garden.

Keywords: Trees, shrubs, Saharanpur, U.P.

Introduction

Saharanpur lies between latitude 29°58' N and longitude 77°33' E in the upper Gangetic plain. It is the northernmost district of U.P. It enjoys a tropical climate. The Saharanpur botanical garden (presently known as Horticultural Experiment and Training Centre, Saharanpur) has been a very beautiful garden during British period. It was started in 1779 when muslim ruler Zabita Khan decided to spend the revenue of seven villages on the maintenance of garden at Saharanpur. East India Company acquired this garden in 1817 and George Govan was the first Superintendent of the Saharanpur botanical Garden. He was followed by John Forbes Royle 1823. "The greatest triumphs of this garden may be considered the introduction of the tea-plant from China, a fact I allude to, as many of my English readers may not be aware that the establishment of the tea-trade in the Himalaya and Assam is almost entirely the work of the superintendents of the gardens of Calcutta and Seharunpore (J. D. Hooker)." John Firminger Duthie (1845-1922) was an English botanist and explorer. From 1875 to 1903 he was the Superintendent of Saharanpur Botanical Gardens. He collected plants from Kumoan, Kashmir and gangetic plain which resulted in compilation and completion of the "Flora of upper gangetic plain". His main plant collector was Inayat Khan.

Botanical survey of India was established on 13th February, 1890 at Howrah to assess the potential of country's botanical profile. In northern region Saharanpur Botanical garden became one of the premier centers for taxonomical research. Historically Saharanpur Botanical garden is seen at second number after Indian Botanic garden, Calcutta in terms of national significance and vast plant collection, floristic studies, taxonomic research including introduction and acclimatization of various plants of economic importance. At present this garden is Horticultural Experiment and Training Centre of U.P. government and it has a large nursery for conducting horticultural experiments on several plants like mango, guava, litchi and many ornamental plants. During fields surveys and floristic studies author collected 235 trees, shrubs and climbers.

Material and Methods

In the course of investigation of hundreds visit, the entire garden was frequently surveyed. Several attempts were made for collection and study in different seasons. Many trees and dendroids specimen were collected, processed, preserved and mounted on herbarium sheets following the standard herbarium techniques¹. The dried and fresh specimens were identified using several legal deeds like Duthie's Flora of the upper gangetic plain², Flora of British India³, Kanjilal's 'Forest flora of Chakrata', Dehradun and Saharanpur forest division⁴, Indian Trees⁵, Flora of Delhi⁶ and Delta software⁷. The herbarium sheets are preserved in the Department of Botany, Maharaj Singh College; Saharanpur (C.C.S. University, Meerut). Analysis and list of various taxa are given in table-1 and 2.

Table-1
Analysis of various taxa

S. No.	Name of Family	Number of genera	Number of species
1	Caesalpiniaceae	06	13
2	Mimosaceae	09	15
3	Papilionaceae	10	13
4	Myrtaceae	04	11
5	Moraceae	04	17

Results and Discussion

Discussion: During fields surveys author collected hundreds of plants and recorded 235 dendroid species including 173 trees, 59 shrubs and 3 climbers. The dominant species in this garden are *Sterculia alata*, *Sweteinia mahogni*, *Tectona grandis*, *Shorea robusta*, *Bischofia javanica*, *Albizia* sp., *Ficus* spp. *Acacia* sp. etc. Some species like *Haematoxylon campechianum*, *Drypetes sepiarea*, *Sterculia acerifolia*, *Santalum album*, *Dillenia indica*, *Encephalartos humulis*, *Taxodium macronatum* etc are represented by one or two specimen. Many specimens of branched *Cycas* may be seen growing in this garden. Besides, this garden houses rare specimen of male *Cycas* (*Cycas*

circinalis). This garden is the type locality of *Derris scandens* var. *saharanpurensis*. This woody climber is endemic to Saharanpur^{8,9}. Many of the exotic species were introduced during last few centuries for commercial, experimental and ornamental exploitations. *Swietenia mahagoni* was introduced into India in 1796 for experimental purposes². Few fine

specimen of this plant along with other exotics can be seen in this Garden¹⁰ which needs proper conservation and protection *Thuja* sp, *Juniperus* sp., *Cycas* spp, *Agathis* sp., *Pinus* sp., *Encephalartos* sp., *Taxodium* sp., *Araucaria* sp., etc are some of the gymnospermic representative in this garden.

Table-2
List of plants

Binomial	Family	Habit
<i>Acacia auriculiformis</i> Benth.	Mimosaceae	Tree
<i>Acacia catechu</i> (L.f.) Willd.	Mimosaceae	Tree
<i>Acacia farnesiana</i> (L.) Willd.	Mimosaceae	Tree
<i>Achras zapota</i> L. Syn. <i>Manilkara zapota</i> (L.) Royen	Sapotaceae	Tree
<i>Adenthera pavonina</i> L.	Papilionaceae	Tree
<i>Aegle marmelos</i> (L.) Corr.	Rutaceae	Tree
<i>Agathis robusta</i> (C. Moore ex F. Muell.) Bailey	Araucariaceae	Tree
<i>Alangium lamarkii</i> Thw.	Alangiaceae	Tree
<i>Albizia lebbek</i> (L.) Benth.	Mimosaceae	Tree
<i>Albizia lucida</i> (Roxb.) Benth.	Mimosaceae	Tree
<i>Albizia odoratissima</i> (L.f.) Benth.	Mimosaceae	Tree
<i>Albizia procera</i> (Roxb.) Benth.	Mimosaceae	Tree
<i>Alstonia scholaris</i> (L.) R.Br.	Apocynaceae	Tree
<i>Amoora rohituca</i> (Roxb.) Wight and Arn.	Meliaceae	Tree
<i>Anogeissus latifolia</i> (Roxb.) Wall.	Combretaceae	Tree
<i>Anthocephalus cadamba</i> (Roxb) Miq. Syn <i>Neolamarkia cadamba</i> (Roxb.) Bosser	Rubiaceae	Tree
<i>Araucaria bidwillii</i> Hook.	Araucariaceae	Tree
<i>Araucaria columnaris</i> (G. Forst.) Hook.	Araucariaceae	Tree
<i>Artocarpus heterophyllus</i> Lam.	Moraceae	Tree
<i>Artocarpus lakoocha</i> Roxb.	Moraceae	Tree
<i>Barringtonia acutangula</i> (L.) Gaertn.	Lecythidaceae	Tree
<i>Bauhinia purpurea</i> L.	Caesalpiniaceae	Tree
<i>Bauhinia triandra</i> Lam.	Caesalpiniaceae	Shrub
<i>Bauhinia variegata</i> L.	Caesalpiniaceae	Tree
<i>Bischofia javanica</i> BI.	Euphorbiaceae	Tree
<i>Bombax ceiba</i> L.	Bombacaceae	Tree
<i>Bombax malabaricum</i> DC.	Bombacaceae	Tree
<i>Borassus flabellifer</i> L.	Arecaceae	Shrub
<i>Breynia vitis-idea</i> (Burm. f.) Fisch.	Euphorbiaceae	Shrub
<i>Broussonetia papyrifera</i> (L.) Vent.	Moraceae	Tree
<i>Butea frondosa</i> Roxb. ex Willd.	Papilionaceae	Tree
<i>Buxus wallichiana</i> Baill.	Euphorbiaceae	Shrub
<i>Caesalpinia sappan</i> L.	Caesalpiniaceae	Tree
<i>Calliandra haematocephala</i> Hassk.	Mimosaceae	Shrub
<i>Callicarpa macrophylla</i> Vahl.	Verbenaceae	Shrub
<i>Callistemon lanceolatum</i> (Sm.) Sweet.	Myrtaceae	Shrub
<i>Capparis sepiaria</i> L.	Capparidaceae	Shrub
<i>Capparis horrida</i> L.f.	Capparidaceae	Shrub
<i>Careya arborea</i> Roxb.	Lecythidaceae	Tree
<i>Caryota urens</i> L.	Arecaceae	Tree
<i>Casearia tomentosa</i> Roxb.	Samydaceae	Tree
<i>Casimiroa edulis</i> La Llave	Rutaceae	Tree
<i>Cassia fistula</i> L.	Caesalpiniaceae	Tree
<i>Cassia glauca</i> Lam.	Caesalpiniaceae	Tree
<i>Cassia nodosa</i> Buch-Ham.	Caesalpiniaceae	Tree

<i>Cassia roxburghii</i> DC. Syn. <i>Cassia marginata</i> Roxb.	Caesalpiniaceae	Tree
<i>Cassia siamea</i> Lam.	Caesalpiniaceae	Tree
<i>Casuarina equisetifolia</i> L.	Casuarinaceae	Tree
<i>Cedrela toona</i> Roxb. ex Rottler	Meliaceae	Tree
<i>Celtis australis</i> L.	Ulmaceae	Tree
<i>Chorisia speciosa</i> A.-St. Hil.	Bombacaceae	Tree
<i>Chukrasia tabularis</i> A. Juss.	Meliaceae	Tree
<i>Cinnamomum camphora</i> (L.) J. Presl	Lauraceae	Tree
<i>Citrus aurantifolia</i> (Christm.) Swingle	Rutaceae	Shrub
<i>Citrus limon</i> (L.) Berm. f.	Rutaceae	Shrub
<i>Citrus maxima</i> (Burm.) Osbeck	Rutaceae	Shrub
<i>Citrus sinensis</i> (L.) Osbeck	Rutaceae	Shrub
<i>Clausena lanceolatum</i> (Lour.) Skeels	Rutaceae	Shrub
<i>Clerodendrum infortunatum</i> Gaertn.	Verbenaceae	Shrub
<i>Coffea bengalensis</i> Roxb.	Rubiaceae	Shrub
<i>Cordia crenata</i> Del.	Boraginaceae	Tree
<i>Cordia myxa</i> L. Syn. <i>Cordia domestica</i> Roth.	Boraginaceae	Tree
<i>Crataeva religiosa</i> G. Forst.	Capparidaceae	Tree
<i>Crescentia cujete</i> L.	Bignoniaceae	Tree
<i>Cycas circinalis</i> L.	Cycadaceae	Tree
<i>Cycas revoluta</i> Thunb.	Cycadaceae	Tree
<i>Dalbergia sissoo</i> Roxb.	Papilionaceae	Tree
<i>Delonix regia</i> (Boj. ex Hook.) Rafin.	Caesalpiniaceae	Tree
<i>Dendrocalamus giganteus</i> Munro	Bambusaceae	Tree
<i>Dendrocalamus strictus</i> (Roxb.) Nees	Bambusaceae	Tree
<i>Derris scandens</i> (Roxb.) Benth. var. <i>saharanpurensis</i> (Thoth.) Thoth.	Papilionaceae	Climber
<i>Dillenia indica</i> L.	Dilleniaceae	Tree
<i>Dillenia pentagyna</i> Roxb.	Dilleniaceae	Tree
<i>Diospyros embryopteris</i> Pers.	Ebenaceae	Tree
<i>Diospyros montana</i> Roxb.	Ebenaceae	Tree
<i>Diploknema butyracea</i> (Roxb.)H.J.Lam.	Sapotaceae	Tree
<i>Dombeya spectabilis</i> Bojer.	Malvaceae	Shrub
<i>Drypetes seperia</i> (Wight and Arn.)Pax and K. Hoffm.	Putranjivaceae	Tree
<i>Durenta inermis</i> L.	Verbenaceae	Shrub
<i>Ehretia acuminata</i> R.Br.	Boraginaceae	Tree
<i>Ehretia laevis</i> Roxb.	Boraginaceae	Tree
<i>Elaeodendron glaucum</i> Pers.	Celastraceae	Tree
<i>Emblica officinalis</i> Gaertn.	Euphorbiaceae	Tree
<i>Encephalartos humilis</i> Verd.	Zamiaceae	Shrub
<i>Enterolobium contortisiliquum</i> (Vell.) Morong	Mimosaceae	Tree
<i>Erythrina blakei</i> Parker	Papilionaceae	Shrub
<i>Erythina suberosa</i> Roxb.	Papilionaceae	Tree
<i>Erythrina indica</i> Lam. Syn. <i>Erythrina variegata</i> L.	Papilionaceae	Tree
<i>Eucalyptus citriodora</i> Hook.	Myrtaceae	Tree
<i>Eucalyptus hybrida</i> Maiden.	Myrtaceae	Tree
<i>Eucalyptus robusta</i> Sm.	Myrtaceae	Tree
<i>Eucalyptus salinga</i> Sm.	Myrtaceae	Tree
<i>Eugenia brasiliensis</i> Lam.	Myrtaceae	Tree
<i>Ficus benghalensis</i> L.	Moraceae	Tree
<i>Ficus benjamina</i> L.	Moraceae	Tree
<i>Ficus carica</i> L.	Moraceae	Tree
<i>Ficus glomerata</i> Roxb. Syn. <i>Ficus racemosa</i> L.	Moraceae	Tree
<i>Ficus hispida</i> L.f.	Moraceae	Tree
<i>Ficus krishnae</i> C. DC.	Moraceae	Tree
<i>Ficus lecor</i> Buch.-Ham.	Moraceae	Tree

<i>Ficus mysorensis</i> B. Heyne ex Roth.	Moraceae	Tree
<i>Ficus pumila</i> L.	Moraceae	Tree
<i>Ficus religiosa</i> L.	Moraceae	Tree
<i>Ficus retusa</i> L.	Moraceae	Tree
<i>Flacourtia cataphracta</i> Roxb.ex Willd.	Flacourtiaceae	Shrub
<i>Flacourtia indica</i> (Berm.f.) Merr.	Flacourtiaceae	Shrub
<i>Gardenia latifolia</i> Schltld. ex Hook. f.	Rubiaceae	Shrub
<i>Gardenia thunbergia</i> L. f.	Rubiaceae	Shrub
<i>Gelonium multiflorum</i> A.Juss.	Euphorbiaceae	Shrub
<i>Gigantichloa albociliata</i> (Munro) Kurz	Bambusaceae	Tree
<i>Gleditsia triacanthos</i> L.	Papilionaceae	Shrub
<i>Gmelina arborea</i> Roxb.	Verbenaceae	Tree
<i>Grevillea robusta</i> A. Cunn.	Proteaceae	Tree
<i>Grewia asiatica</i> L.	Tiliaceae	Shrub
<i>Haematoxylon campechianum</i> L.	Mimosaceae	Tree
<i>Haldinia cordifolia</i> Hook.f. ex Brandis	Rubiaceae	Tree
<i>Hamelia patens</i> Jacq.	Rubiaceae	Shrub
<i>Haplophragma adenophyllum</i> (Wall.)P. Dop	Bignoniaceae	Tree
<i>Heloptelia integrifolia</i> (Roxb.) Planch.	Ulmaceae	Tree
<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Shrub
<i>Holarrhena antidysentrica</i> (G.Don)Wall ex A.DC.	Apocynaceae	Tree
<i>Hymenodictyon excelsum</i> (Roxb.) Wall.	Rubiaceae	Tree
<i>Ixora coccinia</i> L.	Rubiaceae	Shrub
<i>Ixora parviflora</i> Lam.	Rubiaceae	Shrub
<i>Jacaranda mimosifolia</i> D.Don	Mimosaceae	Tree
<i>Juniperus chinensis</i> L.	Araucariaceae	Tree
<i>Kigelia pinnata</i> (Jacq.) DC.Syn. <i>Crescentia pinnata</i> Jacq	Bignoniaceae	Tree
<i>Koelreuteria paniculata</i> Laxm.	Sapindaceae	Tree
<i>Lagerstroemia indica</i> L.	Lythraceae	Tree
<i>Lagerstroemia parviflora</i> Roxb.	Lythraceae	Tree
<i>Lagerstroemia speciosa</i> (L.) Pers. Syn. <i>Lagerstroemia flos-reginae</i> Retz.	Lythraceae	Tree
<i>Lantana camara</i> L.	Verbenaceae	Shrub
<i>Lantana indica</i> Roxb.	Verbenaceae	Shrub
<i>Lawsonia inermis</i> L.	Lythraceae	Shrub
<i>Leucaena leucocephala</i> (Lam.) de Wit	Mimosaceae	Tree
<i>Lichi chinensis</i> Sonn.	Sapindaceae	Tree
<i>Livistona chinensis</i> (Jacquin) R.Br. ex Martius	Arecaceae	Tree
<i>Madhuca longifolia</i> (J. Koenig ex L.) J.F. Macbr.	Sapotaceae	Tree
<i>Magnolia grandiflora</i> L.	Magnoliaceae	Shrub
<i>Mangifera indica</i> L.	Anacardiaceae	Tree
<i>Melaleuca leucadendron</i> L.	Myrtaceae	Tree
<i>Melia azedarach</i> L.	Meliaceae	Tree
<i>Mellotus philippensis</i> (Lam.) Mull. Arg.	Euphorbiaceae	Tree
<i>Michelia champaka</i> L.	Magnoliaceae	Tree
<i>Milletia ovalifolia</i> Kurz. Syn. <i>Milletia peguensis</i> Ali	Papilionaceae	Tree
<i>Milletia tetraptera</i> Kurz	Papilionaceae	Tree
<i>Millingtonia hortensis</i> L.	Bignoniaceae	Tree
<i>Mimusops elengi</i> L.	Sapotaceae	Tree
<i>Mimusops hexandra</i> Roxb.Syn. <i>Manilkara hexandra</i> (Roxb.) Dubard	Sapotaceae	Tree
<i>Mitragyna parviflora</i> (Roxb.) Korth.	Rubiaceae	Tree
<i>Moringa oleifera</i> Lam.	Moringaceae	Tree
<i>Morus alba</i> L.	Moraceae	Tree
<i>Morus nigra</i> L.	Moraceae	Tree
<i>Murraya exotica</i> L.	Rutaceae	Shrub
<i>Nandina domestica</i> Thunb.	Berberidaceae	Shrub

<i>Nephelium glabrum</i> (Blume) Cambess.	Sapotaceae	Tree
<i>Nolina recurvata</i> (Lam.) Hemsl.	Asparagaceae	Shrub
<i>Nyctanthes arbor-tristis</i> L.	Nyctaginaceae	Shrub
<i>Olea europea</i> L.	Oleaceae	Shrub
<i>Oroxylum indicum</i> (L.) Benth.	Bignoniaceae	Tree
<i>Parkinsonia aculeata</i> L.	Caesalpiniaceae	Tree
<i>Parmentiera cereifera</i> Seem.	Bignoniaceae	Tree
<i>Peltophorum pterocarpum</i> (DC.) Baker ex k.Heyne	Caesalpiniaceae	Tree
<i>Phoenix dactylifera</i> L.	Arecaceae	Tree
<i>Phyllanthus reticulatus</i> Poir.	Euphorbiaceae	Shrub
<i>Phyllostachys nigra</i> (Lodd. ex Lindle) Munro	Bambusaceae	Tree
<i>Pinus roxburghii</i> Sargent	Pinaceae	Tree
<i>Piper longum</i> L.	Piperaceae	Shrub
<i>Pithecolobium dulce</i> (Roxb.) Benth.	Mimosaceae	Tree
<i>Plumeria acuminata</i> W.T.Ait. Syn. <i>Plumeria rubra</i> L.	Apocynaceae	Tree
<i>Plumeria alba</i> L.	Apocynaceae	Tree
<i>Polyalthia longifolia</i> (Sonn.)Thw.	Annonaceae	Shrub
<i>Polyalthia suberosa</i> (Roxb.) Thwaites	Annonaceae	Tree
<i>Pongamia pinnata</i> (L.) Pierre Syn <i>P. glabra</i> Vent.	Papilionaceae	Tree
<i>Prosopis juliflora</i> (Sw.) DC	Mimosaceae	Tree
<i>Prunus amygdalus</i> Stokes	Rosaceae	Shrub
<i>Prunus domestica</i> L.	Rosaceae	Shrub
<i>Prunus persica</i> (L.) Batsch	Rosaceae	Shrub
<i>Psidium cattleianum</i> Sabine	Myrtaceae	Tree
<i>Psidium gujava</i> L.	Myrtaceae	Tree
<i>Pterocarpus marsupium</i> Roxb.	Papilionaceae	Tree
<i>Pterospermum acerifolium</i> (L.) Willd.	Sterculiaceae	Tree
<i>Pterospermum lanceolatum</i> Lign. and Le Bey	Sterculiaceae	Tree
<i>Punica granatum</i> L.	Punicaceae	Shrub
<i>Putranjiva roxburghii</i> Wall.	Putranjivaceae	Tree
<i>Pyrus communis</i> L.	Rosaceae	Tree
<i>Pyrus sinensis</i> Bailey	Rosaceae	Tree
<i>Quisqualis indica</i> L.	Combretaceae	Climber
<i>Rhus succedanea</i> L.	Anacardiaceae	Tree
<i>Ricinus communis</i> L.	Euphorbiaceae	Shrub
<i>Roystonea regia</i> (Kunth)Cook Syn. <i>Oreodoxa regia</i> H.B.and K.	Arecaceae	Tree
<i>Santalum album</i> L.	Santalaceae	Tree
<i>Santalum lanceolatum</i> R.Br.	Santalaceae	Tree
<i>Sapindus trifoliatius</i> L.	Sapindaceae	Tree
<i>Saraca indica</i> L. Syn. <i>S. asoca</i> (Roxb.) Wilde.	Papilionaceae	Tree
<i>Schinus terebinthifolius</i> Raddi.	Anacardiaceae	Shrub
<i>Schleichera oleosa</i> (Lour.) Merr Syn. <i>Pistasia oleosa</i> Lour.	Sapindaceae	Tree
<i>Schotia brachypetala</i> Sond.	Caesalpiniaceae	Shrub
<i>Scolopia crenata</i> (Wt. and Arn.) Clos.	Flacourtiaceae	Tree
<i>Shorea robusta</i> Gaertn.	Dipterocarpaceae	Tree
<i>Spathodea companulata</i> P. Beaw.	Bignoniaceae	Shrub
<i>Sterculia acerifolia</i> A. Cunn.	Sterculiaceae	Tree
<i>Sterculia alata</i> Roxb. Syn. <i>Pterygota alata</i> (Roxb.) R.Br.	Sterculiaceae	Tree
<i>Streblus asper</i> Lour.	Moraceae	Tree
<i>Strychnos nux-vomica</i> L.	Logainaceae	Tree
<i>Sweitenia macrophylla</i> King	Meliaceae	Tree
<i>Sweitenia mahogani</i> (L.) Jacq.	Meliaceae	Tree
<i>Syzygium cumini</i> (L.)Skeels Syn. <i>Eugenia Jambolana</i> Lam.	Myrtaceae	Tree
<i>Syzygium jambos</i> (L.) Alston	Myrtaceae	Tree
<i>Tabebuia rosea</i> (Bertol.) DC.	Bignoniaceae	Tree

<i>Tabernaemontana divaricata</i> (L.) R.Br. ex Roem. and Schult.	Apocynaceae	Shrub
<i>Tamarindus indica</i> L.	Mimosaceae	Tree
<i>Taxodium mucronatum</i> Ten.	Taxodiaceae	Tree
<i>Tecoma stans</i> (L.) Juss. ex Kunth	Bignoniaceae	Tree
<i>Tecomella undulata</i> D. Don	Bignoniaceae	Tree
<i>Tectona grandis</i> L.	Verbenaceae	Tree
<i>Terminalia arjuna</i> (Roxb.) W. and A.	Combretaceae	Tree
<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae	Tree
<i>Terminalia chebula</i> Retz.	Combretaceae	Tree
<i>Thevetia nerifolia</i> Juss. ex Stued.	Apocynaceae	Shrub
<i>Thevetia peruviana</i> (Pers.) K. Schum.	Apocynaceae	Shrub
<i>Thuja occidentalis</i> L.	Cupressaceae	Tree
<i>Thuja orientalis</i> L.	Cupressaceae	Tree
<i>Thunbergia coccinia</i> Wall. ex D. Don	Thunbergiaceae	Climber
<i>Trema orientalis</i> Blume	Ulmaceae	Tree
<i>Trewia nudiflora</i> L.	Ulmaceae	Tree
<i>Vitex negundo</i> L.	Verbanaceae	Shrub
<i>Washingtonia filifera</i> (Lindl.) Wendl.	Arecaceae	Tree
<i>Woodfordia fruticosa</i> (L.) Kurz	Lythraceae	Shrub
<i>Wrightia coccinia</i> (Roxb. ex Hornem) Sims	Apocynaceae	Tree
<i>Wrightia tinctoria</i> (Roxb.) R.Br.	Apocynaceae	Tree
<i>Wrightia tomentosa</i> Roem and Schult. Syn. <i>W. arborea</i> (Dennst.) Mabb.	Apocynaceae	Tree
<i>Ziziphus mauritiana</i> Lam. Syn. <i>Z. Jujuba</i> Mill.	Rhamnaceae	Shrub
<i>Ziziphus nummularia</i> (Burm. f.) Wight and Arn.	Rhamnaceae	Shrub
<i>Ziziphus oenoplia</i> (L.) Mill.	Rhamnaceae	Shrub

Conclusion

Botanical garden facilitates botanical research on native flora and collection of plants for taxonomical studies. This garden is ecologically beneficial and aesthetically pleasing. The floristic study of this garden will be useful for students, researchers, teachers, conservationists and those who are beginners and interested in plant taxonomy. Since *Moraceae* predominate this garden, opening of an oxygen garden may be encouraged here. A large nursery for conducting horticultural experiments is here. Arboretum specializing for pinetum, salicetums (willows), populeturns, quercetums, bambusetum etc may be developed in this garden. Seedlings of several dendroid plant species like, *Sweteinia mahogni*, *Derris scansens* etc were poorly observed during the course of this study, which indicate threats for these plants and hence garden. Previously it has more scientifically planned collections of trees and shrubs but now many old specimens are under several kinds of threat. Perhaps these threats are due to overlooking of these plants. So development of well equipped tissue laboratory for conservation of those plants which are under threat may conserve and preserve the botanical profile this garden.

References

- Jain S.K. and Rao R.R., A Handbook of Field and Herbarium Methods, Today and Tomorrow's Pub., New Delhi, (1978)
- Duthie J.F., Flora of the Upper Gangetic Plain and of the Adjacent Siwalik and Sub-Himalayan Tract, Calcutta, India, (1903-1929)
- Hooker J.D., The Flora of British India, Bishen Singh Mahendra Pal Singh, Dehradun, India, (1876)
- Brandis D., Indian Trees (Rep. Ed. 1921). London, (1906)
- Maheshwari J.K., The flora of Delhi, CSIR, New Delhi, (1963)
- <http://delta-intkey.com>, (2015)
- Kanjilal U.N., Forest flora of Chakrata, Dehradun and Saharanpur forest division. Bishen Singh Mahendra Pal Singh, Dehradun, (1928)
- Khanna K.K., Endemic plants of Uttar Pradesh (Angiosperms), *Phytotaxonomy*, **1**, 71-75 (2001)
- Srivastava S.K., Plant diversity and conservation strategies of Uttar Pradesh, *Phytotaxonomy*, **11**, 45-62 (2011)
- Malik V., Mohammad I. and Pranita, Enumeration of exotic plants of western Uttar Pradesh, *Indian Forester*, **138(11)**, 1033-1040 (2012)