

Name of the Project :

**Ex-situ conservation of RET and economically important species
in the experimental garden of BSI CRC**

Duration : August 2020 to till date

Name of Executive scientist:

Dr. A.N. Shukla, Sci. C and Dr. Arti Garg, Sci. E & HoO

**Research Centre: Botanical Survey of India, CRC,
Allahabad**



- The Botanic Garden attached to Central Regional Centre is situated in main office campus of Botanical Survey of India, Allahabad. It is in c. 2.5 acre area at 98 m altitude, 25°28' North latitude and 81°51' East longitude and harbours 600 species belonging to 111 families having medicinal, economically important, ornamental, rare and threatened plants. The garden is divided into many sections viz., Aquatics, Arboretum, Bambusetum, Green House, Gymnosperms, Medicinal Plants, Ornamental Plants, RET species and Rosery.



Total species : **600**

No. of species introduced : **15**

Photographs taken : **200**

Phenological data collected of flowering plants time by time

15 species introduced:

Alectra parasitica A.Rich. subsp. *chitrakutensis*, *Gloriosa superba*, *Buchnanania lanzan*, *Nelumbo nucifera*, *Selaginella bryopteris*, *Eremostachys superba*, *Eleocarpus* sp., *Radermachera xylocarpa*, *Prosopis cineraria*, *Adansonia digitata*, *Shorea robusta*, *Cordia macleodii*, *Pterocarpus marsupium*, *Annona muricata*, *Listsea glutinosa*, etc.







Renovated Fern cum NET house of CRC Garden



Tanks repaired for aquatic plants



Multiplied 100 plant sapling of *Saraca asoca* in CRC experimental garden



Distributed 1500 plant saplings to Company garden for plantation programme



Platanus orientalis (Chinar)

Tree and saplings by grafting method





Renovated Green India Map in CRC campus



Participation in Flower Show

1. Participated in Flower show at Company garden Allahabad and also won three prizes Two first for Dahelia and one second for Medicinal plant section.
2. Distributed 120 plant saplings of *Saraca asoca* during Flower Show at Company Garden, Allahabad on 20-21 February, 2021.



Garden Inspection Tour

Conducted garden Inspection tour on 10.9.2020 to Banda University of Agriculture and Technology, Banda and sent feasibility cum inspection report of new botanic garden project entitled “Development of botanical garden and ex-situ conservation of indigenous, particularly rare, endangered and threatened (RET) plants to the Bundelkhand” to Dr. Sandeep Chauhan, Sci. E & Head BGIR, Noida.

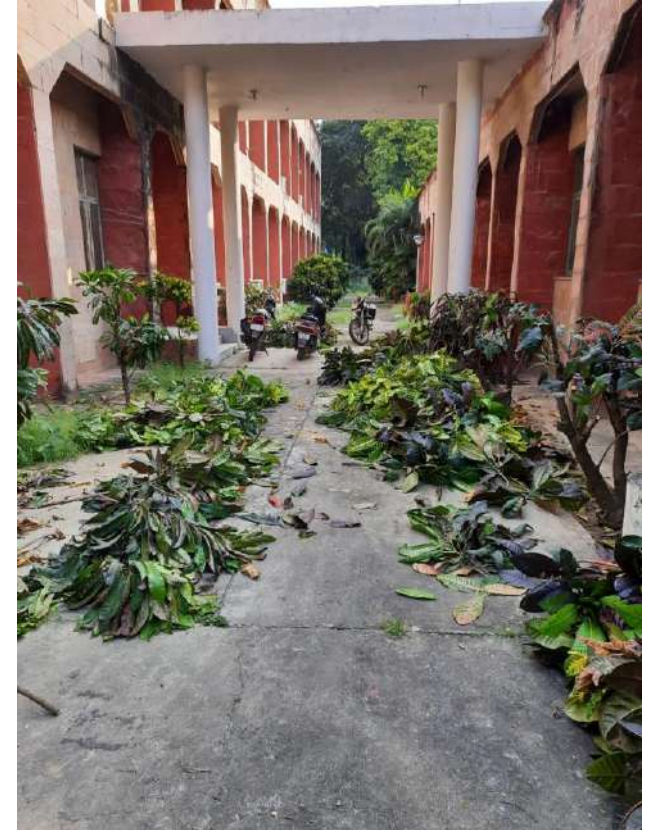
Brought 25 saplings of *Bougainvillea* spp. and one of Cactus from Horticulture department of Banda University for CRC garden.



Participated in several plantation programmes in the city



Massive cleaning programmes organized in Garden area



New Flower beds



Wetland day organized in garden



Tour conducted:

Conducted a tour to Rewa and adjoining areas and collected 169 plant saplings for CRC garden



Attended distinguished visitor Dr. M. Natesh with the consent of Director BSI



Medicinal Plant Section

- The medicinal plant section having collections of *Abrus precatorius*, *Aegle marmelos*, *Aloe vera*, *Andrographis paniculata*, *Argyreia nervosa*, *Asparagus* spp., *Catharanthus roseus*, *Cissampelos pareira* var. *hirsuta*, *Cleome gynandra*, *Cocculus hirsutus*, *Cheilocostus speciosus*, *Cymbopogon* spp., *Dioscorea* spp, *Gymnema* spp., *Mimosa pudica*, *Piper* spp., *Ocimum* spp., *Strychnos nux-vomica*, *Rauvolfia* spp., *Terminalia* spp., *Tinospora cordifolia*, *Toddalia asiatica*, *Tylophora indica*, etc.



Rauwolfia serpentina (L.) Benth. ex Kurz



Rauwolfia tetraphylla L.



Cheilocostus speciosus (J.Koenig) C.D.Specht



Saraca asoca (Roxb.) Willd.



***Tylophora indica* (Burm.f.) Merr.**



सतावर
Asparagus palmosus Willd.
Liliaceae



Alpinia calcarata (Haw.) Roscoe



Cissus quadrangularis L.



Plumbago zeylanica L.

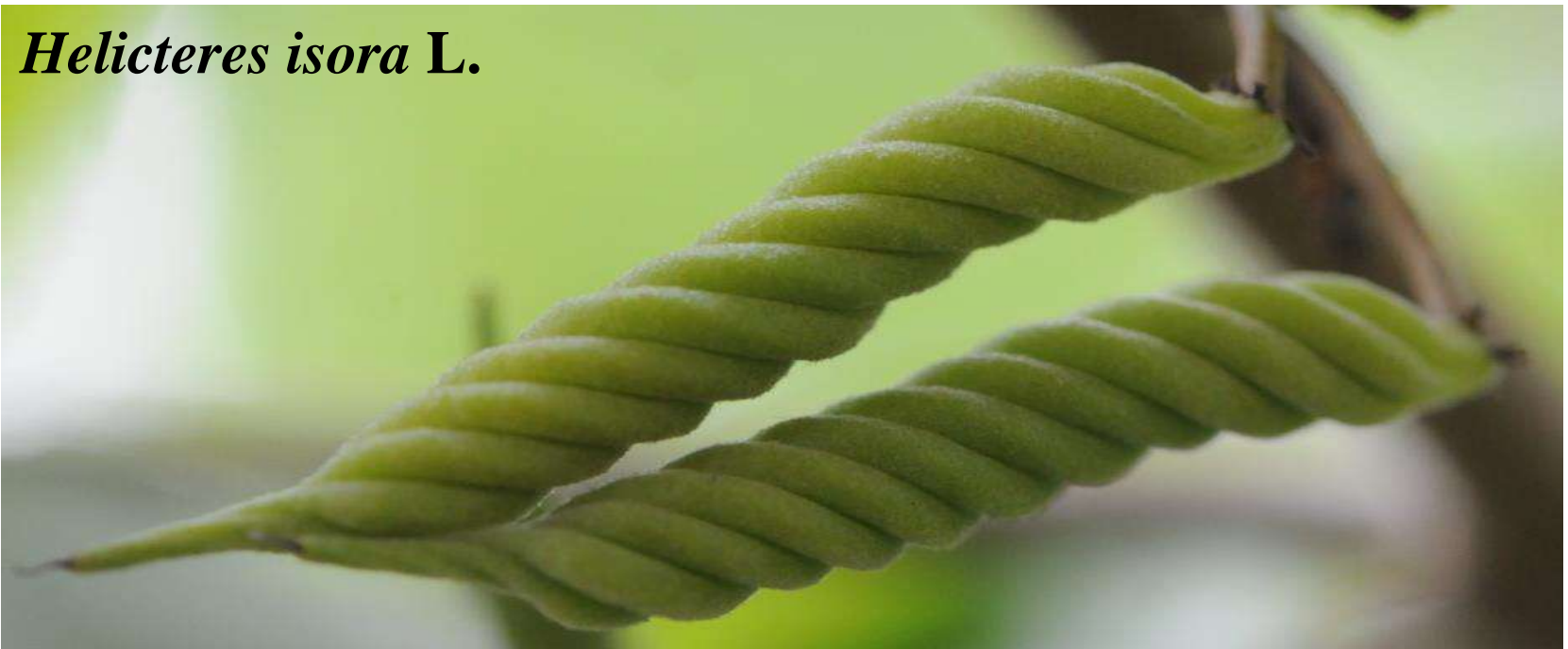


Nyctanthes arbor-tristis L.





Helicteres isora L.





Oroxylum indicum (L.) Kurz

Threatened species

- Some of the rare and threatened species growing in the garden are *Commiphora wightii*, *Frerea indica*, *Flemingia stricta* subsp. *pteropus*, *Indopiptadenia oudhensis*, *Oroxylum indicum* and *Schefflera venulosa*.



***Frerea indica* Dalzell**

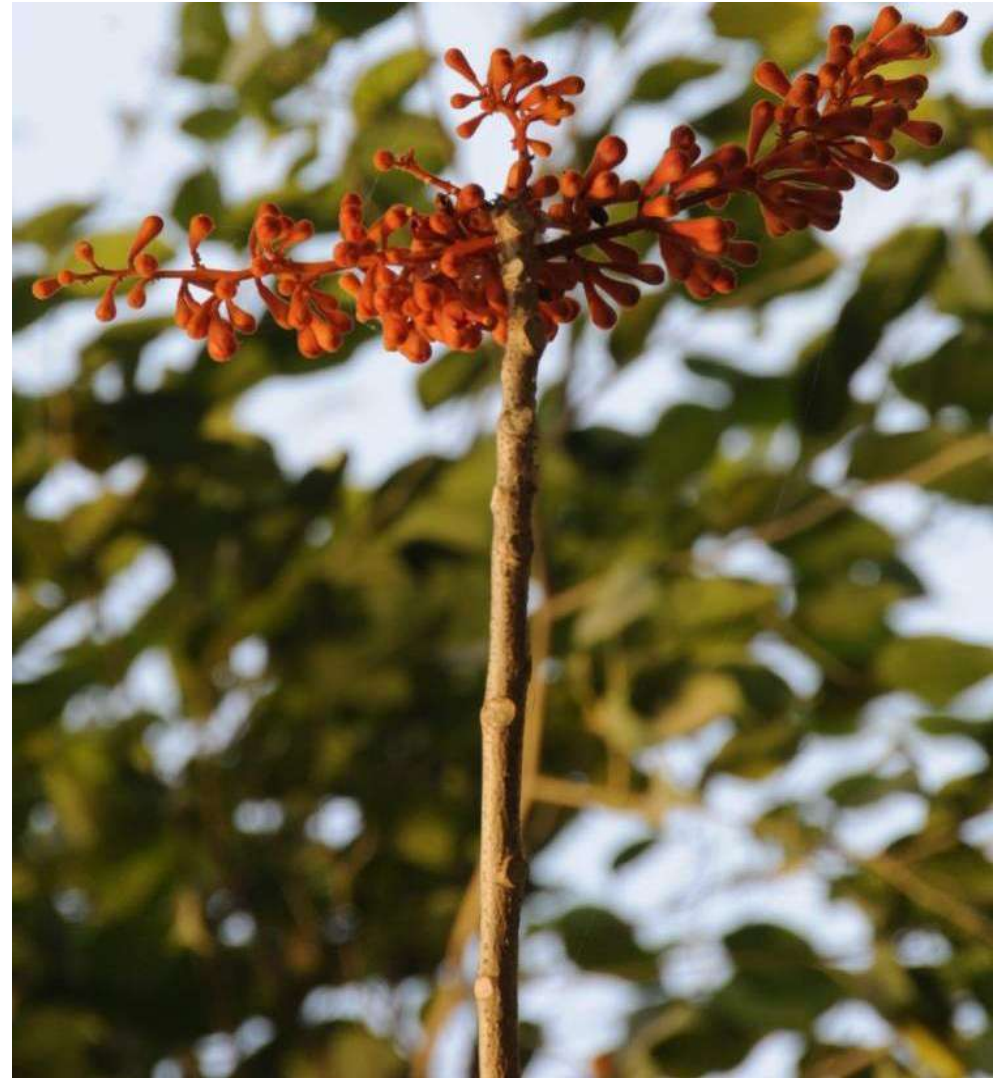




Platanus orientalis L.



Platanus orientalis L. - A four year old plant brought from Dehradun



Firmiana colorata (Roxb.)
R.Br.



Butea monosperma (Lam.) Taub.



Mallotus philippensis (Lam.) Müll.A



Acknowledgements

Dr. A.A. Mao, Director, BSI

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Dr. Arti Garg, Sci. E & HoO BSI, CRC

Dr. Sheo Kumar, Sci. E, BGIR





Thank you