BIODIVERSITY PARK PROJECT AT VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM





BY



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"BELAVALA NAADU" – The Land of Growth

- Belgaum is strategically located in the foothills of the Western Ghats and specifically in the transition belt known as "Ecotone Belt" that stretches up to Ranebennur (approx. 300kms in length & 50 kms wide)
- More than three ecosystems merge into each other in this belt resulting in **fertile soil**, **optimum rainfall**, thus **favourable climatic conditions** supporting **agriculture**, **horticulture**, **animal husbandry** & associated occupation that sustained the livelihood of the communities
- Being located in this *Ecotone Belt* Belgaum received substantial rainfall for more than six months every year.
- The abundant natural resources of Belgaum has been contributing significantly to the ecological and socio-economic well being and is therefore termed as the **Indicator Region**
- Belgaum was once known as "Chota Mahabaleshwar". Apart from being ecologically rich, the region is also a religious destination for many.
- Bordering three states (Karnataka/Goa/Maharashtra), Belgaum has been promoting peace and culture among its populace and tourists who visit from far away places.

Current Situation:

- Haphazard growth, migrant population and unplanned development it is gradually losing its green cover, salubrious climate and original charm. If not for the presence of lung spaces such as Cantonment, Vaccine Depot, etc., Belgaum would have lost a great deal.
- Agriculture, horticulture and rainfall pattern are being affected and thereby the economy.
- Water contamination has increased over the years due to population explosion in addition to water shortage.
- Unprecedented and unplanned growth and developmental activities has given rise to high vehicular pollution thereby affecting the health and well-being of the city's population.
- Ecological demise is sure if no appropriate and immediate measures are undertaken. **Urban biodiversity**, especially with respect to developing regions such as Belgaum, is key to sustain any growth and development







Biological Diversity (Biodiversity):

Conservation and sustainable use of biodiversity are fundamental to ecologically sustainable development. Biodiversity is part of our daily lives and livelihood, and constitutes resources upon which families, communities, nations and future generations depend. Biological diversity is fundamental to the fulfillment of human needs. Loss of biodiversity has serious economic and social costs for any country. Biodiversity has been destroyed substantially in India, during recent times due to various human pressures.





The Biodiversity Park Project:

The *Jnana Sangama* campus of *Visvesvaraya Technological University (VTU)* is uniquely situated on the outskirts of Belgaum city which is known for its verdant surroundings and a salubrious climate. The VTU campus almost nestles with the foothills of the Western Ghats vegetation, with the evergreen forest being just 30 kms away, near Jamboti.

With the focus of developing a *Gene-Bank* of select *Western Ghats* plant species, the *Biodiversity Park* Project in **V.T.U** will be the first of its kind to be established by any Technological University.

The project is in tune with the conservation ethos of the Indian society. In the years to come this park will be an island of biodiversity conservation within an urban centre. The project will significantly contribute towards the well-being of Belgaum city and its people.



Objectives

- Set up a Bio-Park in the Visvesvaraya Technological University, which will be the first of its kind
- Create awareness among the community about biological diversity & its significance & sensitize the youth and student community
- Conserve plant diversity that are endangered, threatened and are highly valuable for human existence
- Create a *Carbon Sink* for future generations with indigenous species to mitigate problems of global warming & climate change
- Create a **Gene-Bank** of important plant species before they become extinct and disappear
- Promote the culture of conservation and appreciation towards natural resources and its management
- Involve the technical faculty and students from various disciplines of VTU towards enhancing their environmental conscious
- Create a facility for students of life science, earth science & related fields to make use of the VTU Bio-Park for studies and experiments in future.

SHOWCASE THE COMMITMENT & RESPONSIBILITY OF VISVESVARAYA TECHNOLOGICAL UNIVERSITY IN ENVIRONMENTAL CONSERVATION

Key Features:

- The VTU will be the first Technological University to contribute significantly towards global
 conservation efforts by establishing a Biodiversity Park in its campus, with a focus on
 developing a Gene Bank of the indigenous species of the Western Ghats, a global Biodiversity
 Hotspot.
- The project will enrich the already beautiful campus with more than 270 species belonging to various families and this will be an additional attraction to the visiting dignitaries.
- The VTU campus will, in future, be a sought after destination for students of various disciplines such as Botany, Zoology, Life Science, Entomology and the like for research and academic purposes.
- The campus will provide unique opportunities for scientists and researchers to carry out integrated and multi-disciplinary studies on climate change, global warming and related themes.
- The project has been designed uniquely with various blocks such as Medicinal Plants Garden, Butterfly Park, Nectar Garden, Wild Flower Garden, Vanas, etc., and keeping in mind the possible enrichment in future.
- The project will also sensitize the students in VTU campus and enhance their environmental consciousness which is essential to protect our ecological heritage.

Theme Based Gardens under the Biodiversity Park Project

Medicinal Plant Garden:

This block consists of species that are medicinally important. A total of **186** saplings are planted in rows, which are documented for proper monitoring and maintenance. A total of **eight** rows accommodate the saplings in this block. This block is also sub-divided into four plots to accommodate the wide range of species





BIODIVERSITY PARK PROJECT



Medicinal Plants Garden

Species List

Plot 1

- Acacia catechu
- 2. Adhatoda vasica
- Aegle marmelos
- 4. Albizia odoratissima
- 5. Aloe vera
- 6. Andrographis paniculata
- 7. Apama siliquosa
- 8. Aporosa lindleyana
- 9. Artocarpus heterophyllus
- 10. Artocarpus lakoocha
- 11. Asparagus racemosus
- 12. Azadirachta indica
- 12. Azadiracitta indice
- 13. Bassia latifolia
- 14. Bombax ceiba
- 15. Breynia retusa16. Bridelia stipularis
- 47.5
- 17. Bryophyllum calycinum
- 18. Buchanania lanzan
- 19. Butea monosperma
- 20. Caesalpinia sappan
- 21. Calamus rotang
- 22. Calophyllum inophyllum
- 23. Careya arborea
- 24. Cassia fistula
- 25. Cinnamomum macrocarpum
- 26. Coleus amboinicus
- 27. Costus speciosus
- 28. Crysanthemum indica

- 29. Curcuma angustifolia
- 30. Curcuma sp- Type-2
- 31. Elaeagnus latifolia
- 32. Embelia robusta
- 33. Emblica officinalis
- 34. Ervatamia coronaria
- 35. Feronia elephantum
- 36. Ficus infectoria
- 37. Ficus racemosa
- 38. Flacourtia montana
- 39. Garcinia indica
- 40. Gloriosa superba
- 41. Gmelina arborea
- 42. Gymnema sylvestre
- 43. Hemidesmus indicus
- 44. Ixora coccinea
- 45. Jatropha curcas
- 46. Lasiociphon eriooehalus
- 47. Lawsonia inermis
- 48. Luvunga eleutherandra
- 49. Mangifera indica
- 50. Mesua ferrea
- 51. Michelia champaca
- 52. Mimusops elengi
- 53. Myristica malabarica
- 54. Nyctanthes arbor-tristis
- 55. Ochrocarpus longifolius
- 56. Ochrocarpus longifolius

- 57. Ocimum sanctum
- 58. Pandanus furcatus
- 59. Pedilanthus
- 60. Piper longum
- 61. Pterocarpus marsupium
- 62. Pterocarpus santalinus
- 63. Salacia chinensis
- 64. Sapindus laurifolius
- 65. Saraca indica
- 66. Symplocos racemosa
 - 67. Syzygium cumini
 - 68. Terminalia arjuna
 - 69. Terminalia bellerica
 - 70. Terminalia paniculata
 - 71. Terminalia tomentosa



- 1. Acacia concinna
- 2. Aegle marmelos
- 3. Atalantia racemosa
- 4. Butea monosperma
- 5. Calamus rotang
- 6. Careya arborea
- 7 Cassia fistula
- 8. Ciltus cinnamomum
- 9. Clerodendron serratum
- 10. Corypha umbraulifera
- 11. Diospyros montana
- 12. Embelia robusta
- 13. Feronia elephantum
- 14. Ficus benghalensis
- 15. Flueggia leucopyros

Plot 3

- 16. Grewia microcos
- 17. Hibiscus rosa-sinensis
- 18. Ilysanthes indica
- 19. Lantana Camara
- 20. Leea indica
- 21. Moringa oleifera
- 22. Mussenda frondosa
- 23. Pterocarpus marsupium
- 24. Pterocarpus santalinus
- 25. Putranjiva roxburghi
- 26. Salacia chinensis
- 27. Saraca indica
- 28. Syzygium Jamboos
- 29. Terminalia arjuna
- 30. Xylia xylocarpa

NATURAL FOREST BLOCK PLOT - 5 PLOT - 5 PLOT - 5 PLOT - 5

Natural Forest Block:

This block consists of a mixed variety of species. The objective is to create an atmosphere of a natural forest. A total of 685 saplings are planted in rows, which are documented for proper monitoring and maintenance. There are a total of thirteen rows in this plot accommodating different numbers of saplings and species in every row.







Grewia tilifolia





BIODIVERSITY PARK PROJECT



Natural Forest Block

Species List

- Acacia concinna
- Adina cordifolia
- Aegle marmelos
- Alseodaphne semicarpifolia
- Alstonia scholaris
- Anthocephalus cadamba
- Artocarpus heterophyllus
- Artocarpus hirsutus
- Artocarpus lakoocha
- 10. Atalantia racemosa
- 11 Azadirachta indica
- 12. Bassia latifolia
- 13. Bauhinia racemosa
- 14. Bombax ceiba
- 15. Bridelia stipularis
- 16. Buchanania lanzan
- 17. Butea monosperma
- 18. Calamus rotang Dead
- 19. Callophyllum wightianum
- 20. Calophyllum inophyllum
- 21. Canarium strictum
- 22. Canthium dicoccum
- 23. Carallia integerrima
- 24. Careya arborea
- 25. Caryota urens
- 26. Cassia fistula
- 27. Chukrasia parvifolia
- 28. Chukrasia tabularis
- 29. Cinnamomum
- 30. Clerodendron paniculatum
- 31. Clerodendron serratum
- 32. Cordia myxa
- 33. Corypha umbraulifera
- 35. Dillenia pentagyna
- 34. Dalbergia latifolia

- 36. Diospyros montana
- 37. Dysoxyum malabaricum
- 38. Elaeagnus latifolia
- 39. Emblica officinalis
- 40. Ervatamia heyneana
- 41. Erythrina indica
- 42. Feronia elephantum
- 43. Ficus benghalensis
- 44. Ficus mysurensis
- 45. Ficus racemosa
- 46. Ficus religiosa
- 47. Flacourtia montana
- 48. Garcinia combogia
- 49. Garcinia indica
- 50. Gmelina arborea
- 51. Grewia microcos
- 52. Grewia tilifolia
- 53. Psidium guajava
- 54. Holigarana arnotiana
- 55. Ixora coccinea
- 56. Jatropha curcas
- 57. Lagerstroemia lanceolata
- 58. Lantana Camara
- 59. Leea indica
- 60. Linociera Malabarica
- 61. Lophopetalum wightanum
- 62. Luvunga eleutherandra
- 63. Memecylon umbellatum
- 64. Michelia champaca
- 65. Mimusops elengi
- 66. Mitragyna parvifolia
- 67. Mussenda frondosa
- 68. Myristica malabarica
- 69. Odina wodier
- 70. Olea dioica

- 71. Pongamia glabra
- Pterocarpus marsupium
- Pterocarpus santalinus
- Putranjiva roxburgh
- Randia dumetorum
- 76. Randia uliginosa
- Salacia chinensis
- 78. Samanea saman
- Sapindus laurifolius
- Singapore Cherry
- 81. Spondias acuminata
- Sterculia guttata
- Stereospermum chelonoides
- Strychnos nuxvomica
- Swietenia mahogani
- Syzygium caryophyllatum
- Syzygium cumini
- Syzygium Jamboos
- Tamarindus indica
- Terminalia arjuna
- Terminalia bellerica
- Terminalia chebula
- 93. Terminalia paniculata
- Terminalia tomentosa
- 95. Thespesia populinea
- Trema orientalis
- 97. Vateria indica
- Vitex altissima
- 99. Xylia xylocarpa
- 100. Zanthoxylum rhetsa
- 101. Ziziphus rugosa



Nectar Garden:

This block consists of species that are rich in nectar and therefore the name. The objective is to have a collection of such species to make it available for the birds, bees, butterflies, etc. A total of 625 saplings are planted in rows, which are documented for proper monitoring and maintenance. There are a total of fourteen rows in this plot accommodating different numbers of saplings and species in every row.





BIODIVERSITY PARK PROJECT



Nectar Garden

Species List

- 1. Acacia concinna
- 2. Adina cordifolia
- 3. Albizia lebbeck
- 4. Albizia odoratissima
- 5. Alstonia scholaris
- 6. Anacardium occidentale
- 7. Artocarpus heterophyllus
- 8. Azadirachta indica
- 9. Bassia sp.
- 10. Buchanania lanzan
- 11. Calamus rotang
- 12. Calophyllum inophyllum
- 13. Calophyllum wightanum
- 14. Canthium dicoccum
- 15. Chukrassia tabularis
- 16. Clerodendron paniculatum
- 17. Corypha umbraulifera
- 18. Dalbergia latifolia
- 19. Dillenia pentagyna
- 20. Dysoxyum malabaricum
- 21. Elaeagnus latifolia
- 22. Emblica officinalis
- 23. Erythrina indica

- 24. Flacourtia montana
- 25. Garcinia combogia
- 26. Garcinia indica
- 27. Gmelina arborea
- 28. Grewia microcos
- 29. Heptapleurum venulosum
- 30. Ixora brachiata
- 31. Lagerstroemia lanceolata
- 32. Lophopetalum wightanum
- 33. Mangifera indica
- 34. Mesua ferrea
- 35. Mimusops elengi
- 36. Mitragyna parvifolia
- 37. Ochrocarpus longifolius
- 38. Olea dioica
- 39. Pongamia glabra
- 40. Premna integrifolia
- 41. Pterocarpus marsupium
- 42. Pterocarpus santalinus
- 43. Samanea saman
- 44. Sapindus laurifolius
- 45. Singapore Cherry
- 46. Swietenia mahogani

- 47. Syzygium caryophyllatum
- 48. Syzygium cumini
- 49. Syzygium Jamboos
- 50. Tamarindus indica
- 51. Terminalia arjuna
- 52. Terminalia bellerica
- 53. Terminalia chebula
- 54. Terminalia paniculata
- 55. Terminalia tomentosa
- 56. Vateria indica
- 57. Vitex altissima
- 58. Zanthoxylum ovlifolium
- 59. Zanthoxylum rhetsa
- 60. Ziziphus rugosa



Garden of Wild Flowers:

This block consists of flowering species which dot the Western Ghats. The objective is to create a garden of wild flowers to enrich the aesthetics of the VTU campus. A total of **366 (331+35)** saplings are planted in rows, which are well documented for monitoring and maintenance. There are a total of **seventeen rows** in this plot accommodating different numbers of saplings in each row. There are also two side rows which accommodate 35 saplings in them.













BIODIVERSITY PARK PROJECT



Wild Flower Garden

Species List

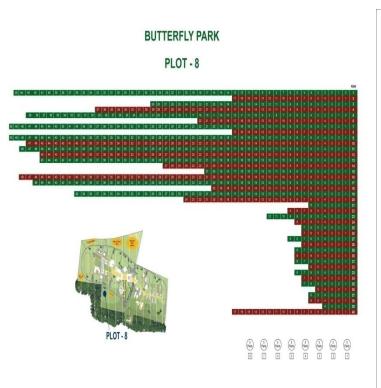
- 1. Acacia concinna
- 2. Adina cordifolia
- 3. Albizia lebbeck
- 4. Albizia odoratissima
- 5. Alstonia scholaris
- 6. Anthocephalus cadamba
- 7. Bauhinia racemosa
- 8. Bixa orellana
- 9. Bombax ceiba
- 10. Bryophyllum calycinum
- 11. Butea monosperma
- 12. Cassia fistula
- 13. Clerodendron paniculatum
- 14. Dillenia pentagyna
- 15. Ervatamia heyneana
- 16. Erythrina indica
- 17. Gmelina arborea
- 18. Ixora brachiata
- 19. Ixora coccinea
- 20. Jasminum angustofolium

- 21. Lagerstroemia speciosa
- 22. Lantana Camara
- 23. Memecylon umbellatum
- 24. Mesua ferea
- 25. Michelia champaca
- 26. Mimusops elengi
- 27. Mitragyna parvifolia
- 28. Mussenda frondosa
- 29. Nyctanthes arbor-tristis
- 30. Ochrocarpus longifolius
- 31. Plumeria acutifolia
- 32. Saraca indica
- 33. Stereospermum chelonoides
- 34. Syzygium cumini
- 35. Syzygium Jamboos
- 36. Terminalia paniculata
- 37. Vateria indica



Butterfly Park:

This block consists of species that are host plants for Butterflies. The key feature of this block is to enrich the diversity of such species and create a habitat for butterflies. A total of **944 (872+72)** saplings are planted in this plot in rows, which are well documented for monitoring and maintenance. There are forty rows in this plot accommodating different numbers of saplings in each row. Few saplings were planted in groups of nine each and there are eight such groups totaling to 72 saplings.





Gmelina

arborea

Mytragyna

parvifolia



BIODIVERSITY PARK PROJECT



Butterfly Garden

Species List

- 1. Acacia catechu
- Acacia ferruginea
- Adina cordifolia
- Aegle marmelos
- Albizia lebbeck
- Albizzia odoratissima
- Anacardium Occidentale
- Azadirachta indica
- Bauhinia racemosa
- 10. Bixa orellana
- 11. Bombax ceiba
- 12. Bryophyllum calycinum
- 13. Butea monosperma
- 14. Calamus rotang
- 15. Canthium dicoccum
- 16. Capparis spinosa
- 17. Caryota urens
- 18. Cassia fistula
- 19. Cinnamomum macrocarpum
- 20. Clerodendron paniculatum
- 21. Corypha umbellifera
- 22. Dalbergia latifolia
- 23. Emblica officinalis
- 24. Ficus racemosa
- 25. Ficus religiosa

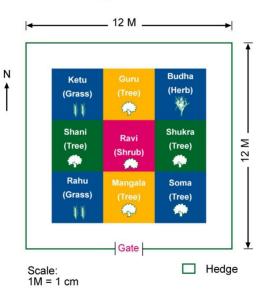
- 26. Ficus rhetusa
- 27. Ficus tsiela
- 28. Flacourtia montana
- 29. Flacourtia ramontchi
- 30. Garcinia combogia
- 31. Garcinia indica
- 32. Garcinia xanthochymus
- 33. Grewia tilifolia
- 34. Hibiscus rosa-sinensis
- 35. Ixora brachiata
- 36. Ixora coccinea
- 37. Jasminum angustifolium
- 38. Lagerstroemia lanceolata
- 39. Lantana camara
- 40. Linociera Malabarica
- 41. Lophopetalum wightanum
- 42. Machilus macrantha
- 43. Melastoma sp.
- 44. Melastoma malabathricum
- 45. Mesua ferrea
- 46. Michelia champaca
- 47. Mitragyna Parvifolia
- 48. Mussenda frondosa
- 49. Nyctanthes arbor-tristis
- 50. Olea dioica

- 51. Pongamia glabra
- 52. Putranjiva roxburghi
- 53. Sapindus laurifolius
- 54. Saraca indica
- 55. Swietenia mahogani
- 56. Syzygium caryophyllatum
- 57. Syzygium cumini
- 58. Syzygium Jamboos
- 59. Terminalia arjuna
- 60. Terminalia bellerica
- 61. Terminalia chebula
- 62. Terminalia paniculata
- 63. Terminalia tomentosa
- 64. Vateria indica
- 65. Vitex altissima
- 66. Zanthoxylum ovlifolium
- 67. Zanthoxylum rhetsa
- 68. Ziziphus oenoplia

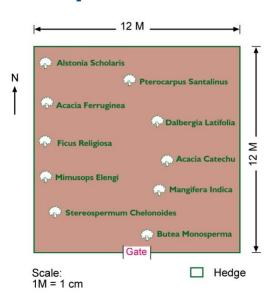


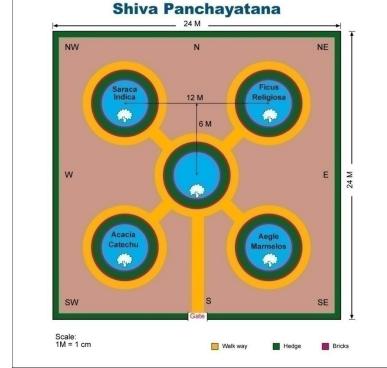


Navagraha Vana



Saptharushi Vana





Biodiversity Status at V.T.U Campus:

Based on field studies and benchmark surveys carried out by experts and resource personnel, it has been observed that the VTU campus is gradually becoming a habitat for many types of birds, butterflies, bees, insects, etc. This indicates the positive changes occurring in the biological diversity in and around the campus.

Regular field studies, benchmark surveys have been carried out in the campus and in the surrounding region. According to these studies, it has been observed that nearly 30% increase in the diversity of birds and more at least 25% with respect to the butterflies in this region.

The list of birds and butterflies sighted within the campus are listed below. These observations were made at different time intervals during the study period and then documented.

List of Birds documented at VTU Campus

S.NO.	NAMES OF BIRD SPECIES THAT HAVE BEEN OBSERVED IN THE VTU					
	CAMPUS DURING FIELD STUDIES AND BENCHMARK SURVEYS					
1	Blue Rock Pigeon	Green Bulbul				
2	Spotted Dove	Red Whiskered Bulbul				
3	Rose Ringed Parakeet	Common Babbler				
4	Koel	Jungle Babbler				
5	House Swift	Magpie Robin				
6	White Breasted Kingfisher	Thick billed Flower-pecker				
7	Small green Bee-eater	Purple rumpled sunbird				
8	Lesser Golden backed Woodpecker	Small Sunbird				
9	Large Green Barbet	House Sparrow				
10	Bush Lark	Black Headed Munia				
11	Swallow	Cattle egret				
12	Ashy Drongo	Little Bustard Qail				
13	Indian Myna	Crow Pheasant				
14	House Crow	White Wagtail				
15	Scarlet Minivet	White Spotted Fantail Flycatcher				





List of Butterflies documented at the V.T.U campus:



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Common	1 10111
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Common	CICIV

Daneied Egfly

Emigrant

Grassy lemon

Southern Birdwing

Common Rose

Yellow Tiger

Common Rose

Red Peirott

Grey Pansy

Great orange tip



ACTIVITIES CARRIED OUT UNDER THE PROJECT:

Nursery:

Eco-Watch established the Nursery under the first year's activity at Siddapur, U.K.district. This was further expanded to accommodate additional saplings that were collected and procured from different geographical regions. The Nursery is equipped with poly house, germination bed, open-well, pump & motor facility. The nursery was exclusively developed for the project to raise the select species that are being planted at the VTU campus.



Procurement of planting material:

All kinds of planting material (seeds, saplings, seedlings, cuttings, etc.,) from various geographical regions were identified, collected and shifted to the nursery and then to the project-site for planting. 1200 saplings (rare, threatened, endangered, etc.,) were planted under the 2nd year of the project. Project personnel of Eco-Watch were involved in the collection and shifting of these planting material from Tamil Nadu, Goa and parts of Karnataka



Field Visits:

Field visits were made by project personnel to places of unique, academic and project specific interests. Places such as *Moodbhidri* & *Bakkal* in Karnataka and others in *Tamil Nadu* & *Goa*. Various locations in these regions were visited and a few important saplings were collected. These visits have enriched the knowledge base and provided opportunity to learn as well. More than ten visits were made to places outside within the state.



Project Catalogue:

A comprehensive catalogue containing all possible details of species in various blocks will be prepared with appropriate pictures/photos collected from various sources. Documentation along with literature collection, database creation, status of species, etc., with the help of subject experts



Scientific Name: Canarium strictum

Com. Name: Black Dammer / Dhup

Fam: Burseraceae

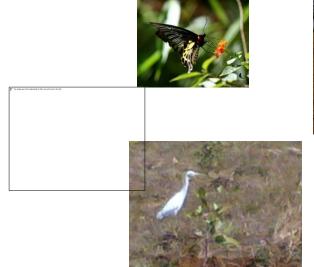
Genus: Canarium

Current Status: Moderately Threatened

HABITAT	HABITAT	USES	ORIGIN	DISTRIBUTION	CHARECTERI
					STICS
Occasionally	Large trees,	General Yields	temperate	India - Western Ghats, Shevoroys	exudes dark
canopy trees in	buttressed,	Trade Resin -	and tropical	(Endemic)	brown to
the evergreen	up to 30 m	`Black	Asia	All over hills, < 19*N, < 1200m	black Resin
forests up to	tall.	Dammer'		Districts - Bombay (Mah.), Uttara	oozing from
1600 m.				Kannada, Chikmangalur, Hassan,	cut end of
				Coorg (Karn.) Cannanore,	trunk.
				Palakkad, Trivandrum (Kerala),	
				Courtallum (Tamil Nadu), Goa	

Benchmark Survey:

Benchmark surveys of birds, butterflies, insects, etc., and documentation in the form of reports, photographs, slides and other presentation material have been undertaken at regular intervals in the campus. Initial surveys will be carried out and subsequent field studies have been carried out on a bi-monthly basis by professionals and experts.





COFFEE TABLE BOOK:

A Coffee Table Book on the project can be produced with colorful pictures, photographs, illustrations, etc., along with details of the project, its unique features, history and background, role of VTU in addressing issues such as global warming and climate change and the like, which can be given as a memento to the visiting dignitaries. This will greatly enhance the prestige of VTU as it will give the impression that the VTU looks beyond the confines of engineering and technology.

At a time when the world is worried about the loss of biodiversity, the VTU taking interest in developing a Biodiversity Park with a focus on creating a Gene Bank of tropical species will make a significant impact and difference to the society.

About Eco-Watch

ECO-WATCH has been in the forefront of *Green Movement* in Karnataka for more than a decade. The Centre has significantly contributed towards environmental conservation and sustainable development in Karnataka.

Urban-Forestry, Natural Resource Management, Eco-Development, Sustainable Livelihoods and related issues are the key areas of operation.

Eco-Watch has been successful in approaching the community through its simple yet highly effective outreach initiatives, which has sustained and stabilized a large portion of its fundamental field based research, academic and experimental programmes.

Addressing environmental issues through stratified advocacy, and policy level implications have been the key components over the years.



Achievements of Eco-Watch

- Created major Urban Forest in 200 acres of area belonging to Army ASC Centre in Bangalore
- Set up Regional Bio-Parks in Bangalore, Tumkur & Kolar districts under Indo-Norwegian Environment Programme (INEP)
- Created artificial water bodies through rainwater harvesting techniques in Bangalore
- Setting up the largest Lung Space for Bangalore in 600 acres area in city outskirts
- Has established **Eco-Parks** and **Woodlots** in 50-acre area in peri-urban regions
- The centre has been responsible in creating massive awareness on key environmental issues in different parts of the state over the last 10 years through publication, films and awareness campaigns
- Rejuvenated and restored lakes/waterbodies in Bangalore
- Published several awareness and information material on various ecological & environmental issues
- Developed manuals / field guides for ecological studies for teachers and students
- Conducted *Green Teachers Training Programme* in Tumkur, Kolar and Bangalore districts to rain teachers & students on biodiversity conservation
- Won "RAJIV GANDHI ENVIRONMENT AWARD" in 2005-06 for outstanding contribution to Environment in Karnataka state
- Won the "UNITED NATIONS-FAO AWARD" for documentary film on Shepherds of North Karnataka
- Won the Best Voluntary Organisation award from Rotary International

THANK YOU