

Pitchandikulam Art Collective

METIER AND MEDIA OF WILDLIFE ART OF PITCHANDIKULAM

The experiments at Pitchandikulam in Auroville International Township carry on the tradition of 'true wildlife art' where naturalism and exactitude are the catchwords. Pitchandikulam has to a large extent concentrated on outdoor wildlife art, but nowadays some of the artists are turning towards a more studio-based and scientific culture (but these are only in the preliminary phase). Among the outdoor media experimented with are painting on Kadapa stone slabs, painting on granite stone slabs, painting on boulders, carving and painting on granite pillars, scaled up and life sized ferro-cement sculptures, cast iron and mosaic. Pitchandikulam was established in 1973 and since then it has been experimenting with imagery to sensitize people to the need to conserve native biodiversity, especially the coastal forests, popularly referred to as the Tropical Dry Evergreen Forest (TDEF for short) and its denizens. It continually tries to represent and share its experiences of wildlife through imagery, and with the availability of a variety of different media to choose from, everyone can express their interpretation in a personal way. Wildlife art seeks not only to generate an appreciation of the enthusiasm for the natural world, but also advance the interest, education and concern of the public in the conservation of wildlife.

MEDIA

KADAPPA SLAB PAINTING

Kadapa stone, also known as Cuddapah stone (from the original Telugu, Gadapa) and Kadapa Black or Madras Black (the latter two trade names), is basically a black limestone intruding into other rocks (quarries, dolomites and shale). While the pure black rock slabs are polished and used in interiors, the impure slabs which contain other rock types show a variety of colours and textures in the unpolished form. It is these unpolished stone slabs that are used in painting. The challenge of painting on stone is to use the natural colours and textures to advantage. This demands clear cut composition of the theme to be portrayed and minimal painting of backgrounds. In fact, the crux lies in the background painting (or degree of lack of it) as backgrounds should enhance the natural colours and textures, not suppress them

LIFE CYCLE OF TERMITES



TERMITE MOUND

Termites are important decomposers that live in soil and eat dead wood and leaves. They are found in many parts of the world, including the United States.



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THE IMPORTANCE OF EATING WOOD

Termites are important 'recyclers'. Some have protozoa and bacteria in their digestive systems to help break down dead wood and leaves. Others use the help of fungi to do the job. The process returns nutrients to the soil for plant growth.











GRANITE SLAB PAINTING

Kadapa stone rarely exceeds a size of 7ft x 2ft, which means that approximately only 5ft is seen above ground (it is necessary to bury at least 2ft below ground for the stone to be stable). If dramatic compositions are necessary, it is advisable to paint on granite slabs which can be procured in any size. We have found that groupings of four to six stone slabs make effective confluent displays, especially if they have to be viewed from a distance. The only drawback of granite slabs is that they do not show the mixture of colours or texture of Kadapa stone, have a relatively rougher surface which cannot incorporate detail and, if they are large, may be difficult to move around and install without the use of heavy machinery.







Indian bees
pollinate Gourd

Carpenter bees
pollinate Milkweeds
(*Calotropis sp.*)

POLLINATORS

Rock bees pollinate
Coffee

Dog faced bats
pollinate
Jatropha
(*Madhuca indica*)

Sunbirds
pollinate
Loranthus

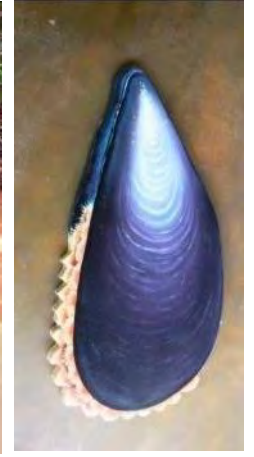
Papilionids pollinate
Flame lily
(*Gloriosa superba*)

WOOD PAINTING

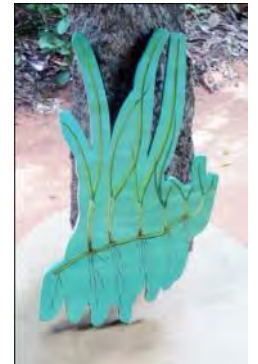
Painting on wood has the advantage of depicting fine details of the creatures portrayed since there is a relatively smooth surface on which to paint. But it takes more time to execute than stone slabs since the entire board has to be painted over and detail incorporated.





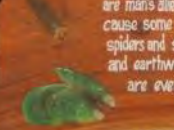


Plywood cutout



INVERTEBRATES AND PEOPLE

Man is very deeply connected with invertebrates. The most important connection is food. Many crustaceans and mollusks are main food items of people. Many insects are man's allies in being major plant pollinators and at the same time other insects cause some of the most dangerous diseases of man. Several insects and all spiders and scorpions are pest control agents which benefit us greatly and earthworms are one of the best soil-treatment agents. Invertebrates are everywhere and are an integrated part of human existence.




INSECTS

The most common invertebrates of the Adyar poonga are insects which include butterflies, dragon flies, beetles, bees, etc. Insects have 3 body divisions, 6 legs, 2 antennae (feelers) and 1 or 2 pairs of wings (except primitive insects). Most have a pair of compound eyes and mouths for biting or sucking. Some can sting and all reproduce through eggs. Insects form the largest group of invertebrates in the world. They reproduce through eggs and many undergo metamorphosis (the change from a worm-like form to an insect-like one).



CARTILAGINOUS FISHES

These jawed fishes have skeletons comprised primarily of cartilage with mosaics of small bony plates as reinforcements. All are predators with mouths adapted for biting. Sharks, rays, guitar fishes, sawfishes and chimaeras belong to this class.



Beaks and feet

Birds beaks and feet have been modified to suit their ways of life. Wood eating birds have strong hooked beaks for tearing flesh; fish-eaters have long pointed beaks for catching fish; grain-eaters have stout, conical beaks for cracking seeds; and so on. The legs and feet of birds also describe a bird's habits in feeding, nesting, etc.



பறவைகள் பற்றிய கருத்துகள்

பறவைகள் பறப்பதில் உபயோகிக்கின்ற அவற்றின் கால்களும், கால்களின் வடிவங்களும் அவற்றின் வாழ்க்கை முறைகளை அறிய உதவின. மரத்தை உண்ணும் பறவைகள் வளைந்த கால்களைக் கொண்டிருக்கின்றன. இவை மரத்தின் கிளைகளை உண்ணும் போது உபயோகிக்கின்றன. மீன் உண்ணும் பறவைகள் நீர்மீதுள்ள மீன்களை பிடிப்பதற்கு நீண்ட கால்களைக் கொண்டிருக்கின்றன. இவை மீன்களைப் பிடிப்பதற்கு நீண்ட கால்களைக் கொண்டிருக்கின்றன. இவை மீன்களைப் பிடிப்பதற்கு நீண்ட கால்களைக் கொண்டிருக்கின்றன.



What is a Bird?

A bird can be very aptly described as a Feathered Biped (biped means two-legged). This is a very specific description and cannot apply to any other creature. Besides their unique feathers, birds have mouths modified into horny beaks, lightweight bones, good eyesight, reproduce through eggs, and most can fly. With very few exceptions, birds have no sense of smell.




பறவை என்றால் என்ன?

இதே பறவையை, இறக்கைகளையும், இதே கால்களையும் உயிரினம் என்று அழைக்கலாம். இத்தகையவர்கள் பறவைகள். மரத்தை உண்ணும் பறவைகள், நீர்மீதுள்ள மீன்களைப் பிடிக்கும் பறவைகள், நீண்ட கால்களைக் கொண்டிருக்கின்றன. இவை மீன்களைப் பிடிப்பதற்கு நீண்ட கால்களைக் கொண்டிருக்கின்றன. இவை மீன்களைப் பிடிப்பதற்கு நீண்ட கால்களைக் கொண்டிருக்கின்றன.



MOLLSKUS AND ANNELIDS

Mollusks live in water in addition to living in bony skeletons. They may have a shell into which they can withdraw at will (the snail), or in which they remain permanently (the bivalves), while some have no shell at all (the slug). Annelids are the earthworms and leeches which are blind and have slimy bare skins. Earthworms are beneficial creatures while leeches are parasites. All are moisture-dependent and cannot live in dry environments.





Directional Signage

MURALS

If both large dramatic images and heavy textual information is to be portrayed, it is effective to use wide vertical or wall surfaces for painting. Since too much detail cannot be incorporated these paintings should be viewed from a distance.

கோவில் காட்சிகள்

கோவில்கள் என்பது மனிதர்களின் தீயப்பணிகளை மீட்டவும், மகிழ்ச்சியும், தீயனை விலக்கும் நோக்கத்தோடு கட்டப்பட்டவை. கோவில் கட்டுவது என்பது மனிதர்களின் மனம் அமைதிப்படுத்தும் உயர்ந்த கருத்துதான். கோவில் கட்டும்போது மனிதர்களின் மனம் அமைதிப்படுத்தும் உயர்ந்த கருத்துதான். கோவில் கட்டும்போது மனிதர்களின் மனம் அமைதிப்படுத்தும் உயர்ந்த கருத்துதான்.

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SACRED GROVES

Sacred groves represent an ancient respect, sentiment & fear. They are the valuable gene pool of natural resources.

These sacred groves are small patches ranging from less than an acre to little more than a hectare. Most deities seen in villages are small (Sri Yantra, Kanjiyamman, Angalamman, Pindari, Elai and swords and often even a skull in one hand).

Every sacred grove is a spirit world to roam about at night protecting villagers from evil. The groves are always regarded as a good & benevolent protector.

The tradition of maintaining sacred groves has been under pressure from the Evergreen forest (TDEF) type.

Hence the conservation of sacred groves and the attached to sacred groves has to be maintained. The conservation efforts would vanish resulting in a policy which would recognize sacred groves sentiments and as a repository of biodiversity will be sustainable for all time.



The coral reef is a vital part of the ocean's ecosystem. It provides a home for many different species of fish and other marine life. The reef also helps to protect the coast from storms and waves. Unfortunately, coral reefs are being destroyed at an alarming rate. This is due to a number of factors, including climate change, pollution, and overfishing. It is important that we take action to protect these valuable ecosystems.







CARVING ON GRANITE BOULDERS

The onus here is to use the shape of the stone to form the natural contours of the animal.



STONE SCULPTURE

Unlike the puristic stone carvings, the art forms produced so far have combined carving with painting to bring out form, texture and natural colours of the creatures depicted. Carvings on boulders and granite pillars have been produced as art forms in their own right or combined with other media to suit a purpose (for example, granite pillars combined with painted wooden planks were found most suitable for directional signage).









(a)



(b)



(c)



(d)

①



②



③



④

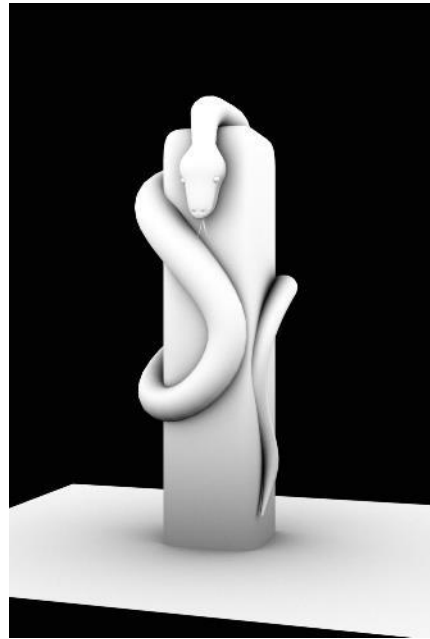
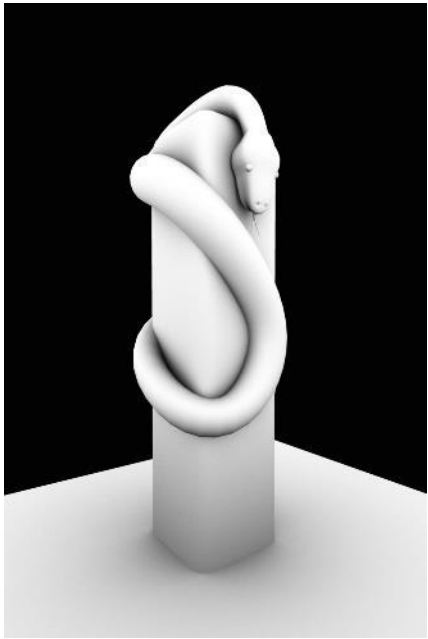
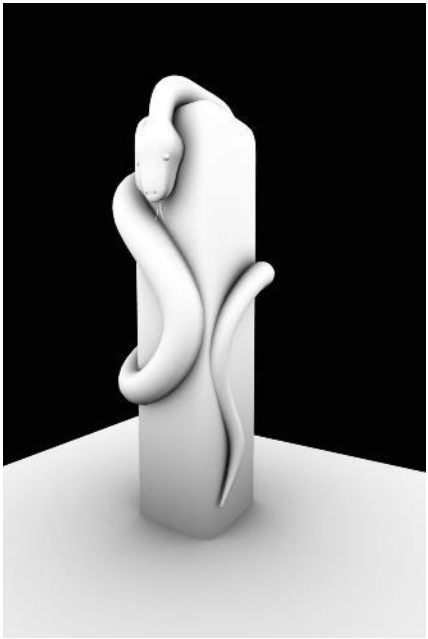


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FERRO CEMENT SCULPTURE

Scaled up versions of animals were found to be eye catching and popular. The onus here is strength and durability since most, if not all, sculptures were designed to occupy spaces where they are accessible to the public. Life sized models too have been produced by us and these occupy protected or supervised spaces as vandalism is an all too familiar phenomenon in any place where visitor recreation is also a feature.













Buildup of Ferro cement sculpture













Steps to loading sculpture up ferro cements models

MOSAIC

Wildlife art is a forum of imagery that will hold one's interest and validate the passion for wildlife but occasionally it has a tendency to push us out of our comfort zone. One such medium that borders on the abstract is mosaic. But unlike the majority of mosaics depicting animals the experiments here have a strong element of realism particularly where form, proportion and colour are concerned. The advantage of mosaic over painting is that it is permanent, though detail cannot be incorporated. Nevertheless, such semi-abstract visual solutions can be useful in conveying graphic information.



Mosaic



Mosaic on cement blocks



Mosaic on concrete waste



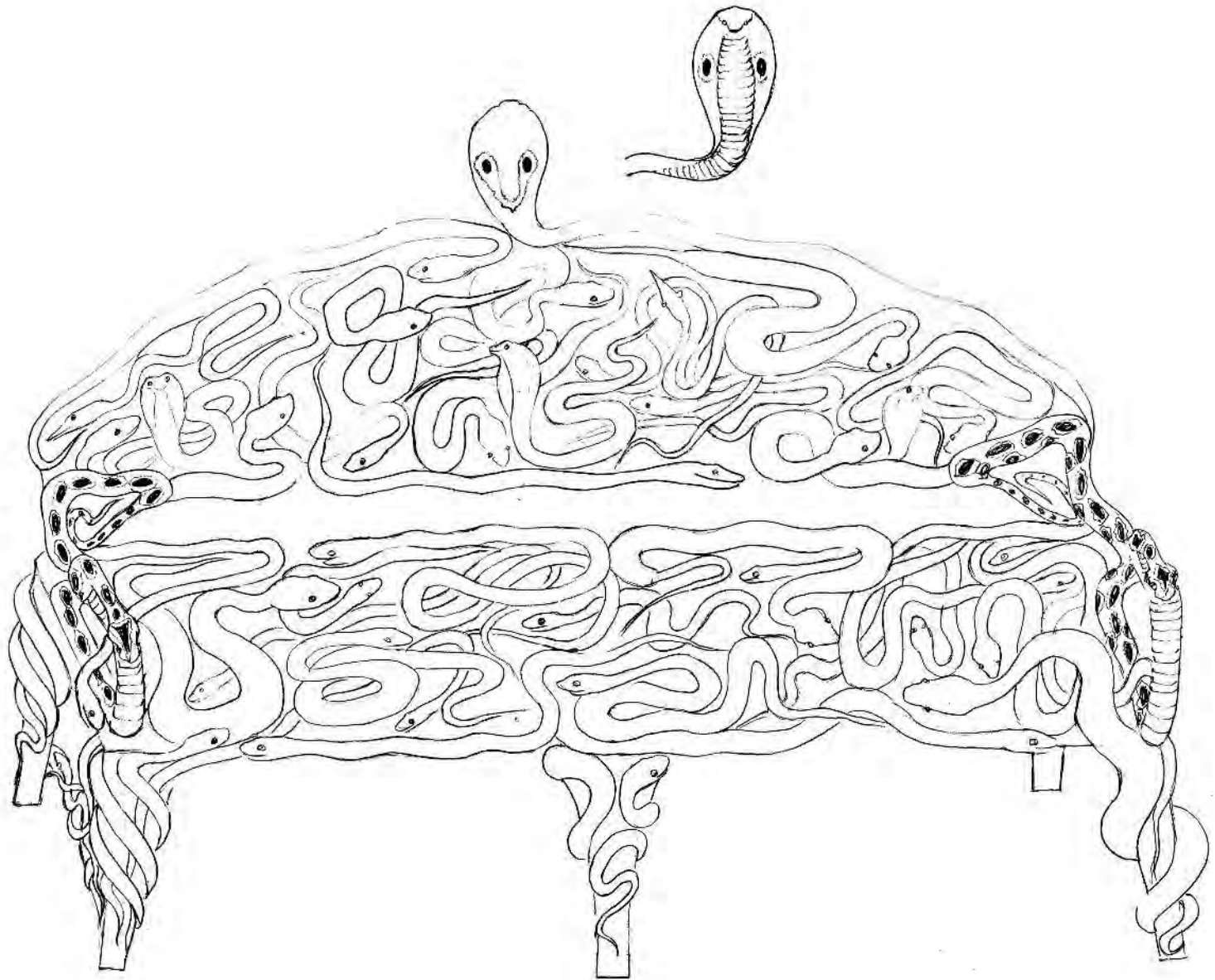
CAST IRON BENCH

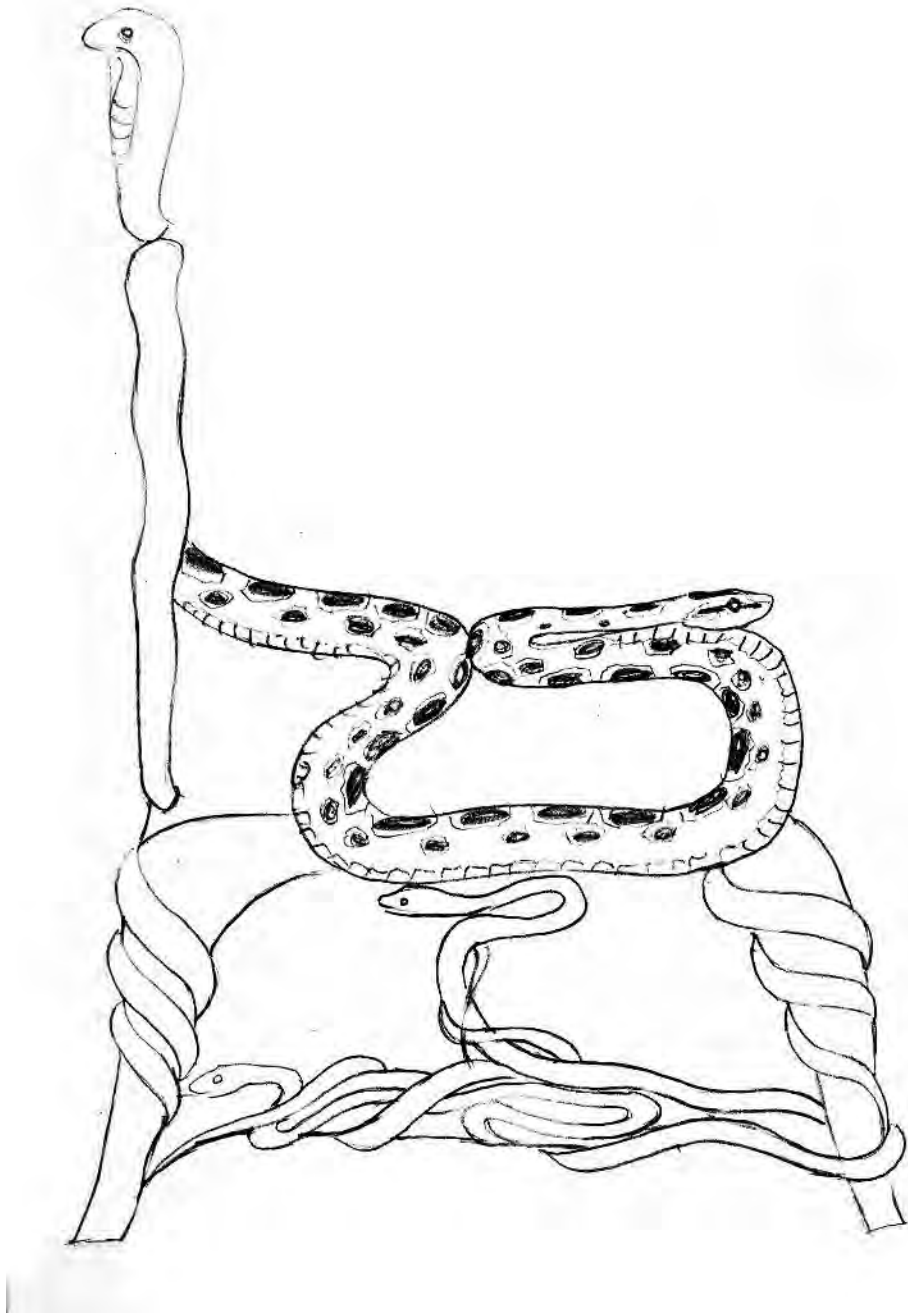
Lethaby mentions that in art “there is a certain mysterious appeal in iron. Iron stands for strength, simplicity, even severity, and, on its sinister side, for cruelty and terror”. The experiments in Pitchandikulam have been limited to date, but it was found that the above comments were quite true concerning strong forms and severity, especially where the so called ‘mysterious and sinister’ creatures like snakes were concerned.





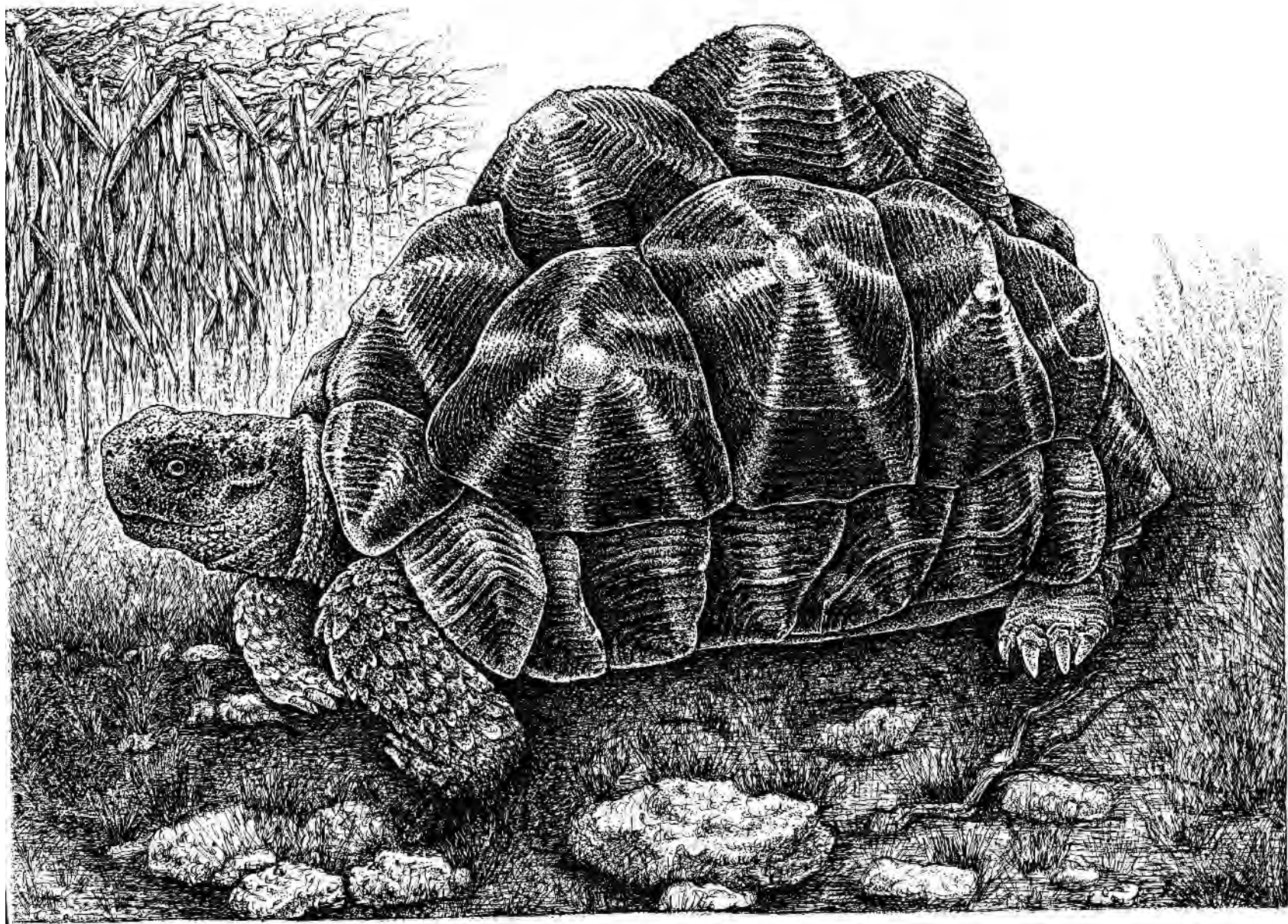






PEN AND INK DRAWING

Illustration for books and posters is one of the specialties of some artists in Pitchandikulam who essentially rely on pointillism, with a trace of hatching and cross hatching (if the design requires it), to manifest outputs.



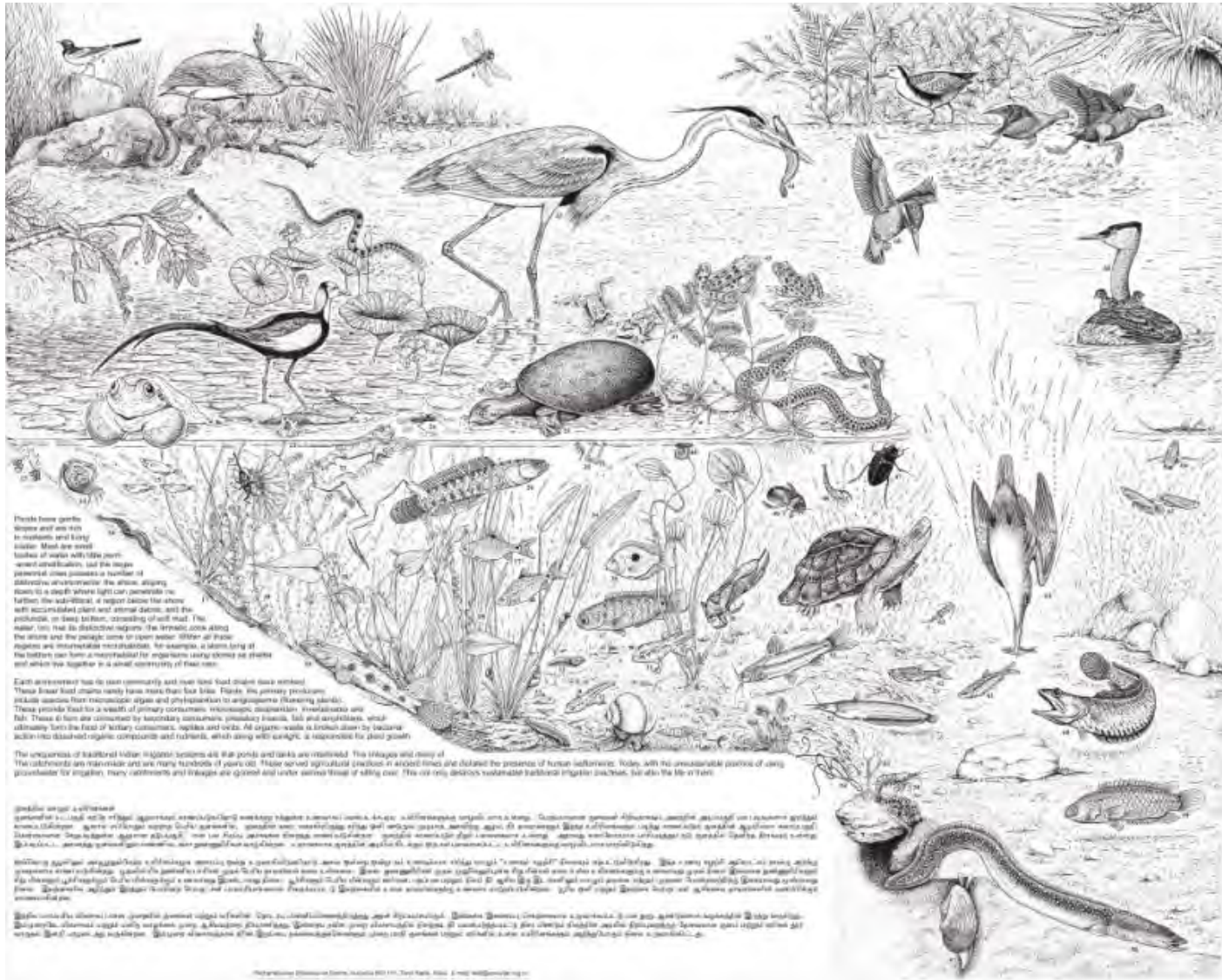






POSTER ART

It is said that a picture speaks a thousand words, and though photography can capture a moment, art can share an entire experience and is a unique way of seeing and sharing the world ([www. Bbcwildlifemagazine.com/artist2009.esp](http://www.Bbcwildlifemagazine.com/artist2009.esp)). Poster art, perforce being visually striking and designed to attract attention, was found to be one of the best tools for conservation education. The genre of poster art produced was a combination of research poster and classroom poster as the need was to produce a simple ‘one image’ format that could sensitise people to the biotic wealth of the region as well as be scientifically accurate. Poster art from the time of Toulouse-Lautrec and Cheret had depended on colour but black and white images were also used – for example, the poster publicizing the Exposition Universelle of 1905 at Liege. Both colour and black and white (ink) have been experimented with and the outputs found quite satisfactory.



Ponds have quiet slopes and are rich in reeds and long grass. Much low level bushes of water with the more advanced water lilies, and the large rounded ones produce a number of alternative watercourses. The slow, deep flow in a depth where light can penetrate the bottom, the shallow, or rapid, cause the water with accumulated plant and stone dams, and the pebbles, or bays below, consisting of soft mud. The water has its distinctive odour. The streams along the sides and the ponds are in open water. When all these things are combined in a pond, for example, a lot of fish, the bottom has a mottled appearance, being covered in plants and which are together in a small quantity of fine soil.

Each environment has its own community and has had food chains built up. These linear food chains rarely have more than five links. Figure the primary producers which maintain their reproduction stage and phytoplankton in autotrophic floating islands. These provide food to a variety of primary consumers, including, sometimes, zooplankton and fish. These in turn are consumed by secondary consumers, secondary insects, and the amphibians, which ultimately form the base of tertiary consumers, reptiles and birds. All organic waste is broken down by bacteria into the dissolved organic compounds and nutrients, which along with energy, is recycled for plant growth.

The organisms of healthy water systems are the ponds and tanks are controlled. This strategy and many of the organisms are maintained and we may find them in ponds. These so-called agricultural practices in several forms are related to human activities. Today, with the increasing pressure of water pollution, they are becoming and being used and water system of silting out. The only other serious problem is the high pollution, but also the life in them.

ஒரு குளம் என்பது மெதுவாக ஓடும் நீர் கொண்டிருக்கும் ஒரு நீர்நிலை ஆகும். குளம் என்பது மெதுவாக ஓடும் நீர் கொண்டிருக்கும் ஒரு நீர்நிலை ஆகும். குளம் என்பது மெதுவாக ஓடும் நீர் கொண்டிருக்கும் ஒரு நீர்நிலை ஆகும்.

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POND LIFE

குளத்தினுள் உயிர்வாழ்க்கை

1. Large Pond (Major)	7. Water Snail	41. Ring-necked Duck	42. Water Bug
2. Small Pond (Minor)	8. Frog	42. Ring-necked Duck	43. Water Bug
3. Shallow Pond (Shallow)	9. Frog	43. Ring-necked Duck	44. Water Bug
4. Deep Pond (Deep)	10. Frog	44. Ring-necked Duck	45. Water Bug
5. Pond (Pond)	11. Frog	45. Ring-necked Duck	46. Water Bug
6. Pond (Pond)	12. Frog	46. Ring-necked Duck	47. Water Bug
7. Pond (Pond)	13. Frog	47. Ring-necked Duck	48. Water Bug
8. Pond (Pond)	14. Frog	48. Ring-necked Duck	49. Water Bug
9. Pond (Pond)	15. Frog	49. Ring-necked Duck	50. Water Bug
10. Pond (Pond)	16. Frog	50. Ring-necked Duck	51. Water Bug
11. Pond (Pond)	17. Frog	51. Ring-necked Duck	52. Water Bug
12. Pond (Pond)	18. Frog	52. Ring-necked Duck	53. Water Bug
13. Pond (Pond)	19. Frog	53. Ring-necked Duck	54. Water Bug
14. Pond (Pond)	20. Frog	54. Ring-necked Duck	55. Water Bug
15. Pond (Pond)	21. Frog	55. Ring-necked Duck	56. Water Bug
16. Pond (Pond)	22. Frog	56. Ring-necked Duck	57. Water Bug
17. Pond (Pond)	23. Frog	57. Ring-necked Duck	58. Water Bug
18. Pond (Pond)	24. Frog	58. Ring-necked Duck	59. Water Bug
19. Pond (Pond)	25. Frog	59. Ring-necked Duck	60. Water Bug
20. Pond (Pond)	26. Frog	60. Ring-necked Duck	61. Water Bug
21. Pond (Pond)	27. Frog	61. Ring-necked Duck	62. Water Bug
22. Pond (Pond)	28. Frog	62. Ring-necked Duck	63. Water Bug
23. Pond (Pond)	29. Frog	63. Ring-necked Duck	64. Water Bug
24. Pond (Pond)	30. Frog	64. Ring-necked Duck	65. Water Bug
25. Pond (Pond)	31. Frog	65. Ring-necked Duck	66. Water Bug
26. Pond (Pond)	32. Frog	66. Ring-necked Duck	67. Water Bug
27. Pond (Pond)	33. Frog	67. Ring-necked Duck	68. Water Bug
28. Pond (Pond)	34. Frog	68. Ring-necked Duck	69. Water Bug
29. Pond (Pond)	35. Frog	69. Ring-necked Duck	70. Water Bug
30. Pond (Pond)	36. Frog	70. Ring-necked Duck	71. Water Bug
31. Pond (Pond)	37. Frog	71. Ring-necked Duck	72. Water Bug
32. Pond (Pond)	38. Frog	72. Ring-necked Duck	73. Water Bug
33. Pond (Pond)	39. Frog	73. Ring-necked Duck	74. Water Bug
34. Pond (Pond)	40. Frog	74. Ring-necked Duck	75. Water Bug





FAUNA OF TROPICAL DRY EVERGREEN FOREST DOWN ON THE GROUND

Tropical Dry Evergreen Forest (TDEF) is perhaps the most endangered of all India's ecosystems. But its biodiversity still survives in a few pockets.

This forest supports a wide variety of birds and animal species that inhabit wooded areas that form a living natural ecosystem. The natural wealth of a wide variety of birds and animals is found within the forest canopy and is essential to the forest's health and stability. This is because the forest canopy is a natural habitat for many birds and animals. Each ecosystem contributes to the overall biodiversity by ensuring that every available resource is preserved within the forest's natural limits. This guarantees that resources are maintained in the system even during the adverse monsoon season.

ഗവേഷണ ഗ്രന്ഥം ഉപയോഗിച്ച് താഴെ പറയുന്ന ജീവിജാലം വരയ്ക്കുക

താഴെ പറയുന്ന ജീവിജാലം വരയ്ക്കുക. ഇതിൽ ഉൾപ്പെടെയുള്ള ജീവികളുടെ പേരുകൾ താഴെ പറയുന്നവയാണ്. ഇതിൽ ഉൾപ്പെടെയുള്ള ജീവികളുടെ പേരുകൾ താഴെ പറയുന്നവയാണ്. ഇതിൽ ഉൾപ്പെടെയുള്ള ജീവികളുടെ പേരുകൾ താഴെ പറയുന്നവയാണ്.

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- | | | | |
|-----------|--------------|-----------|-----------|
| 1. Parrot | 21. Scorpion | 41. Snake | 61. Frog |
| 2. Eagle | 22. Snake | 42. Snake | 62. Snake |
| 3. Snake | 23. Snake | 43. Snake | 63. Snake |
| 4. Snake | 24. Snake | 44. Snake | 64. Snake |
| 5. Snake | 25. Snake | 45. Snake | 65. Snake |
| 6. Snake | 26. Snake | 46. Snake | 66. Snake |
| 7. Snake | 27. Snake | 47. Snake | 67. Snake |
| 8. Snake | 28. Snake | 48. Snake | 68. Snake |
| 9. Snake | 29. Snake | 49. Snake | 69. Snake |
| 10. Snake | 30. Snake | 50. Snake | 70. Snake |
| 11. Snake | 31. Snake | 51. Snake | 71. Snake |
| 12. Snake | 32. Snake | 52. Snake | 72. Snake |
| 13. Snake | 33. Snake | 53. Snake | 73. Snake |
| 14. Snake | 34. Snake | 54. Snake | 74. Snake |
| 15. Snake | 35. Snake | 55. Snake | 75. Snake |
| 16. Snake | 36. Snake | 56. Snake | 76. Snake |
| 17. Snake | 37. Snake | 57. Snake | 77. Snake |
| 18. Snake | 38. Snake | 58. Snake | 78. Snake |
| 19. Snake | 39. Snake | 59. Snake | 79. Snake |
| 20. Snake | 40. Snake | 60. Snake | 80. Snake |

OIL ON CANVAS

Over the years Pitchandikulam has principally concentrated on outdoor art, but of late some artists in Pitchandikulam have begun putting together a collection of paintings for indoor spaces and exhibitions. We wish to state that the efforts shown here are preliminary – basically studies, but in detail, to test our own capabilities and willingness to conform to studio / exhibition norms. These will be upgraded and combined, with other elements and with inputs from the design team and subject specialists, until a holistically comprehensive set of panels are finally manifested.





BRONZE

This, being the most popular metal used for 'cast metal' sculpture, could not be ignored and Pitchandikulam has also started experiments in this media. The method used is the ancient 'lost wax' method which was used in ancient India for making sculptures of various human and animal figurines, especially with a religious connotation. In this method, a model is made of wax, covered with a special type of clay and heated so that the clay melts and runs out of a hole specially left for that purpose, leaving an empty core. Molten metal is then poured into the empty space, left to cool and the clay shell broken to reveal the basic form. Fine detail is added using more molten metal and a series of tools to give the final finished product.







INDUSTRIAL PLASTICINE OR CLAY

Clay is the most favoured media of sculptors concentrating on 'add on' techniques because this can give a refined and true to life look than any other three dimensional media. Pitchandikulam has begun experimenting in the modern derivative of this media and the preliminary results found very satisfactory.





PROJECTS

ADYAR ECO- PARK, CHENNAI, TAMIL NADU

This was a prestigious Government of Tamil Nadu undertaking which principally focused on wetland restoration. As education was envisaged to play a crucial role in the process, educative signage, models, etc were commissioned and developed. The total bill of quantity budget for these artworks alone exceeded Rs 1.9 crore and this has remained our largest undertaking to date.





அடையாறு காங்கிரஸ் பூங்கா

மாண்புமிகு தமிழ்நாடு முதலமைச்சர்
கலைஞர். மு. கருணாநிதி
அவர்களால் திறந்து வைக்கப்பட்டது

தலைமை
மாண்புமிகு கृஷி அமைச்சர்
திரு. மு. க. ஸ்டாலின் அவர்கள்

முன்னினை
வணக்கத்திற்குரிய சென்னை மாநகர மேயர்
திரு. மா. சுப்பிரமணியன் அவர்கள்

நாள்: 22.01.2011

Adyar Eco-Park

Inaugurated by
Kalaignar M. Karunanidhi
Honble Chief Minister of Tamil Nadu

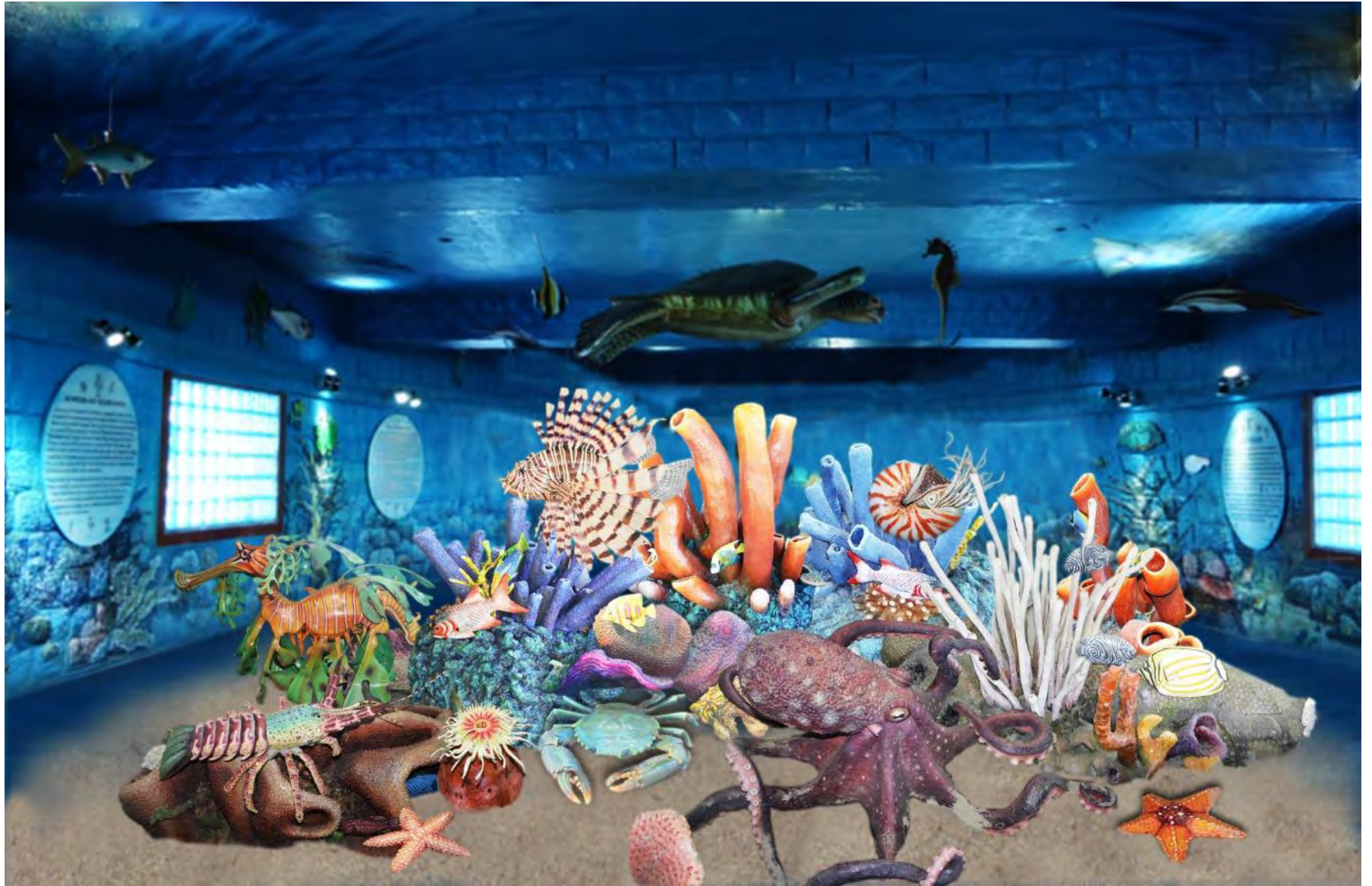
Presided by
Thiru. M. K. Stalin
Honble Deputy Chief Minister

In the Presence of
Thiru. M. Subramanyan
Worshipful Mayor of Chennai

On 22.01.2011.

MARINE INTERPRETATION CENTRE, KUNDAKAL (NEAR RAMESWARAM)

This was a joint UNDP and Gulf of Mannar Biosphere Reserve Trust (GoMBRT) undertaking. The concept was essentially that when one entered the building the atmosphere should be almost as if one was underwater. The highlight of the whole exercise was a three dimensional 18 ft x 9 ft model of a coral reef with hundreds of associated life forms.











WIPRO TECHNOLOGIES ELECTRONIC CITY BANGALORE

It was heartening to collaborate with ATREE on this project which was essentially to enhance landscape features of a butterfly garden with art as well as to sensitize people about butterfly life. This involved confluent paintings on large granite slabs and stone sculpture.





BUTTERFLY DIVERSITY

POLLINATORS



SNAKE PARK CHENNAI

This project involved the creation of life sized models of various snakes and lizards.



TOLL PLAZAS ALONG THE ECR FROM CHENNAI TO PONDICHERRY

Eye catching paintings of local wildlife on Kadappa stone were erected at both toll gates between Chennai and Puducherry. Some of the paintings have been reduced to a sorry state since they have not been repainted since they were erected 9 years ago. There is a point we would like to make: if artworks are left out in direct sunlight the colours will fade and repainting will have to be undertaken every three years or so.





NILGIRI BIOSPHERE RESERVE PARK, ANAIKATTI (NEAR COIMBATORE)

This is an eco-park that is visited by many tourists and school groups. Sensitizing them to wildlife is an essential part and in this context some paintings and models were developed which enhanced both conservation education and recreation.



GASS FOREST MUSEUM, COIMBATORE

This is one of the oldest museums in the country. The job was to refurbish the museum and give it a more aesthetic look without compromising the collections already existing in the museum. The work needed quite a bit of ingenuity and involved creation of life size sculptures of large animals, interpretative signage, indoor landscaping, refurbishing of antique furniture and models, and the cleaning and remounting of the hundreds of animal trophies and skins contained in the collection. The highlight of the exhibition space is a three dimensional diorama approximately 25m x 3m depicting a rocky forest landscape replete with sculptures of a Tiger, a family of Lion-tailed Macaques, an Indian Python swallowing a Spotted Deer, a King Cobra, Ficus Tree and innumerable other minor items. Even the stuffed Gaur presented by the Maharaja of Mysore and a few other fully stuffed specimens were used to give a realistic feel to the exhibit.





SNAKE INTERPRETATION CENTRE, DEPARTMENT OF FORESTS AND WILDLIFE, PUDUCHERRY

This involved showcasing the four common venomous snakes of peninsular India (Spectacled Cobra, Indian Krait, Russell's Viper and Saw-scaled Viper) and their mimics for the education of the general public.

It involved life sized sculptures of nine snakes for an outdoor public space in addition to interpretative signage



29/06/2015 16:22



29/06/2015 16:18



29/06/2015 16:17

CHETPET ECO PARK

This was a project initiated by the Fisheries Department and PFC was contracted to create both the Master Plan as well as sculptures.





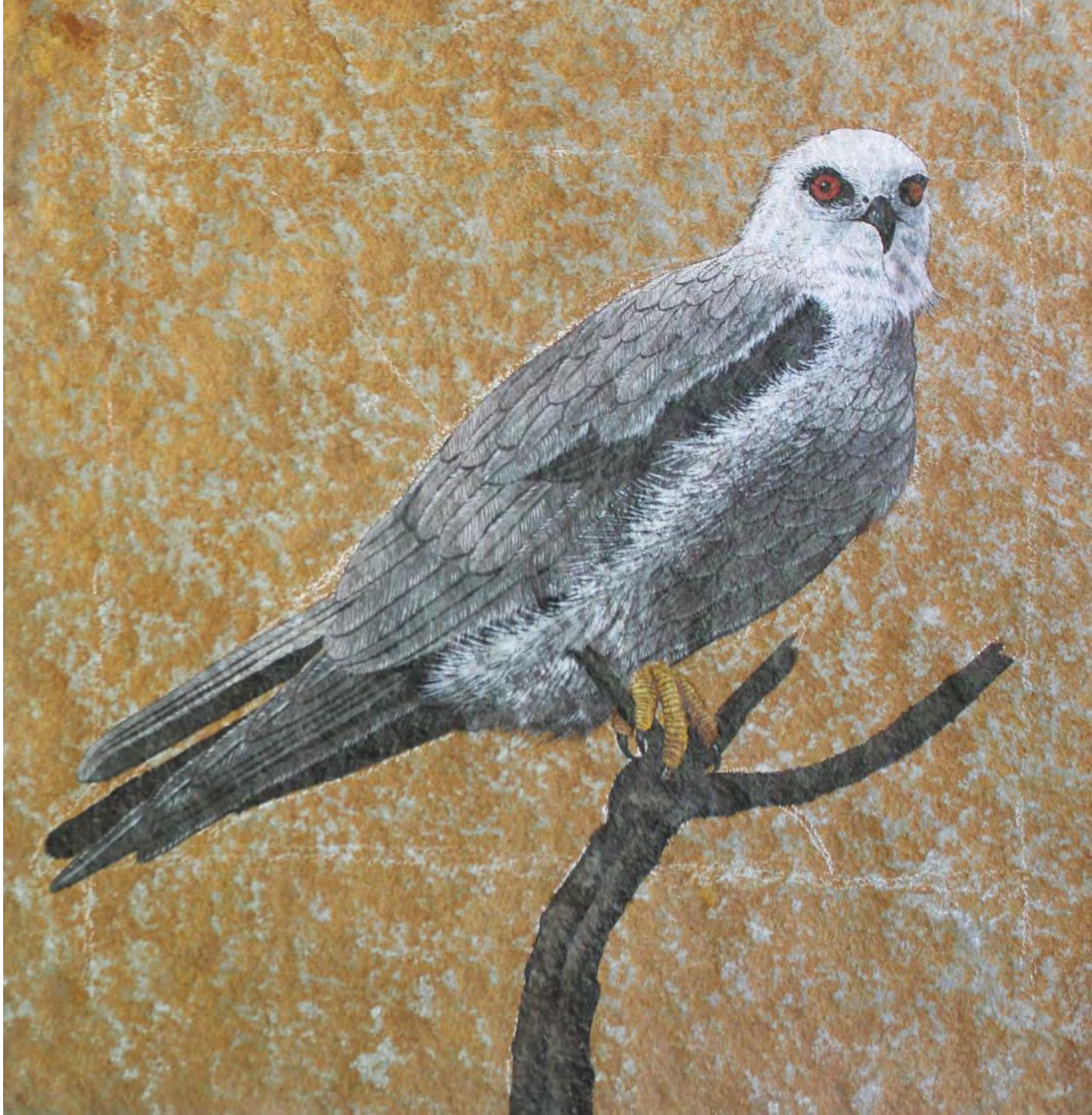




K RESORTS EAST COAST ROAD









PICHAVARAM MANGROVE INTERPRETATION CENTRE

An undertaking under the Tamil Nadu Forest Department. It involved a small building with interpretative signage, models and a replication of a mangrove ecosystem. A brochure was also designed and printed.





DJ ACADEMY COIMBATORE





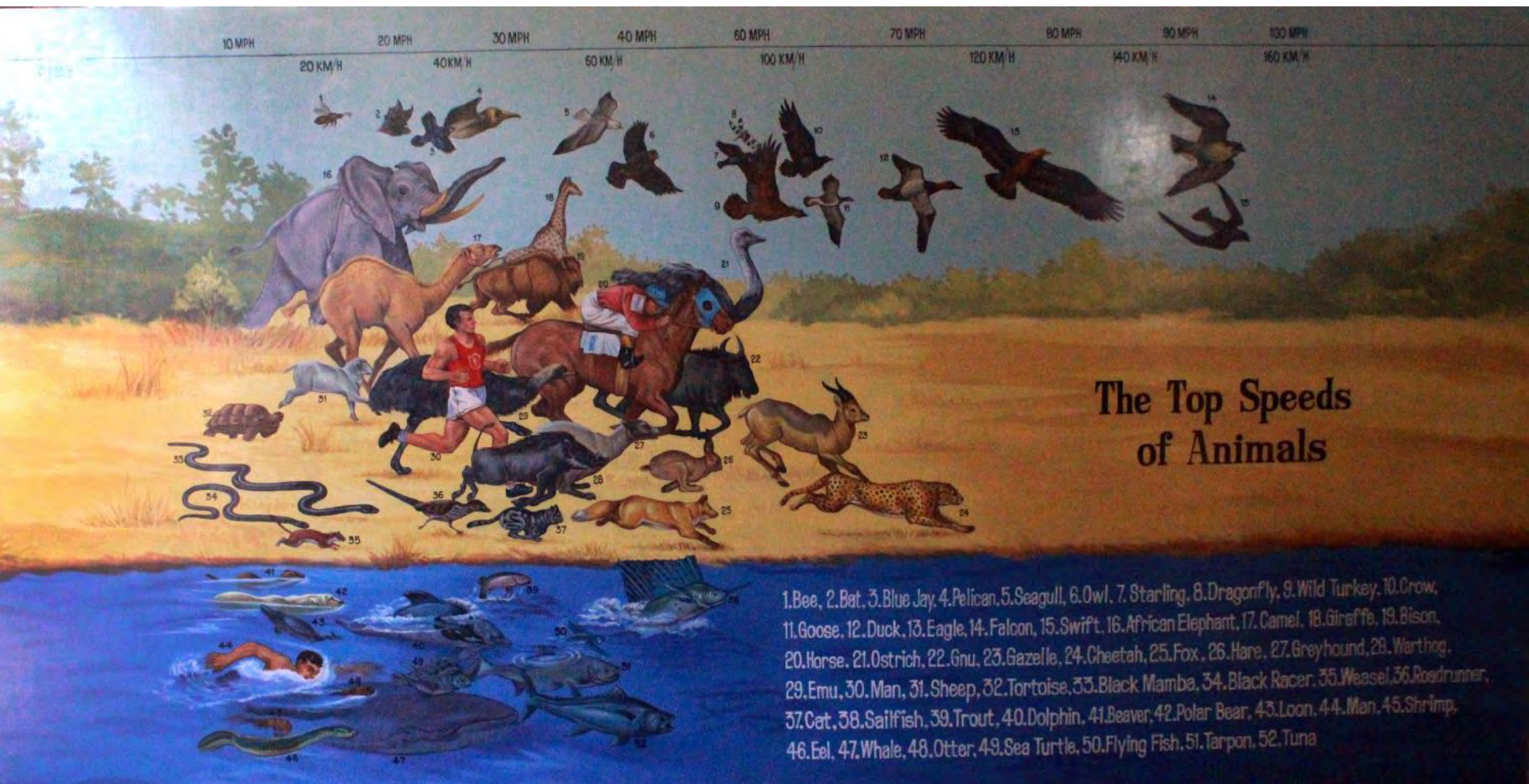




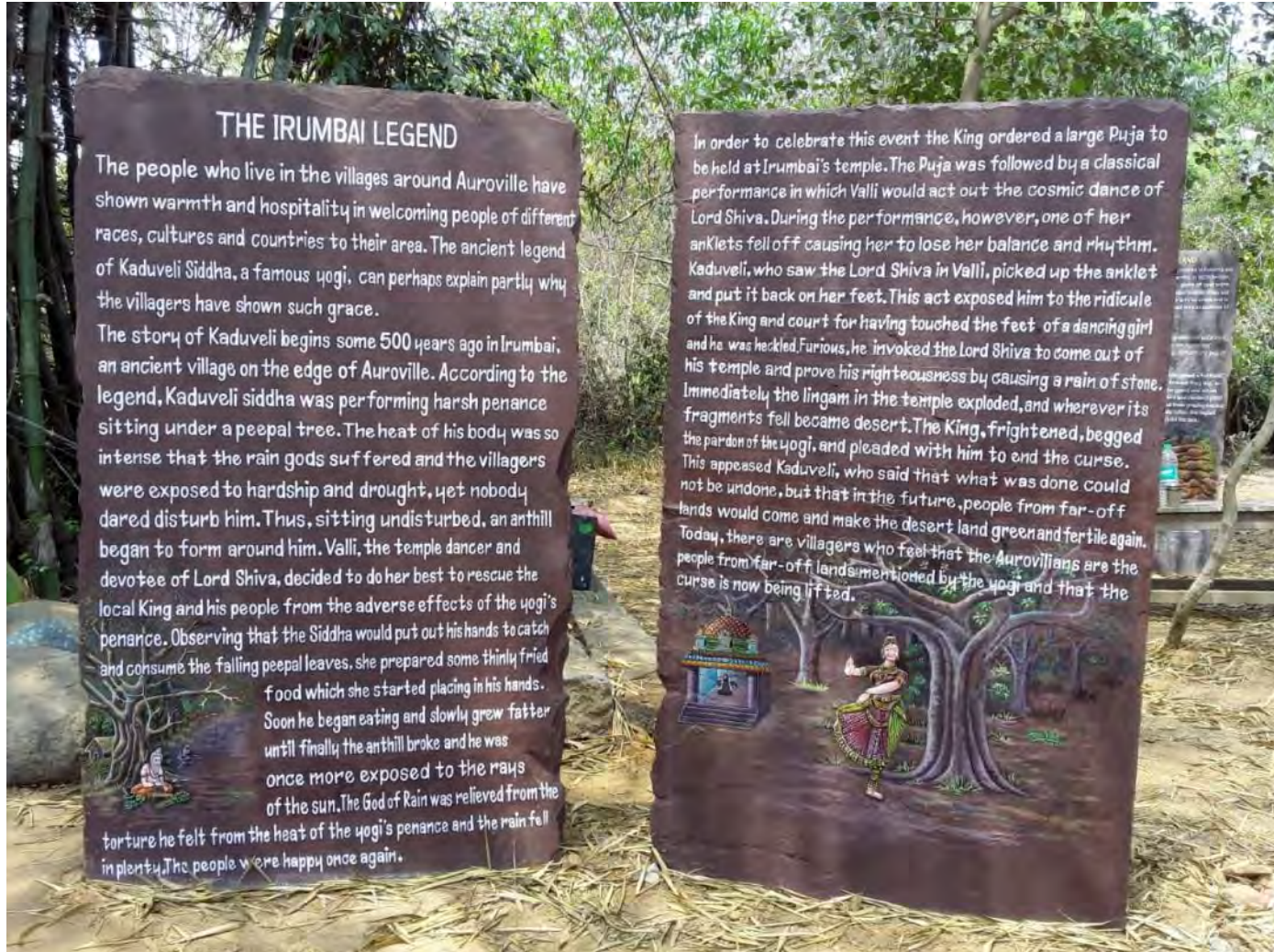
GOOD EARTH BANGALORE







VISITORS' CENTRE AUROVILLE





AUROVILLE'S ECOSYSTEM

- Auroville is much more than an experiment in human unity, a place for research in to sustainable living and a universal township in the making. It's a highly complex web of life, involving not just the humans from many nations, cultures and backgrounds who live here and participate in its growth and development, but all the species of the plant and animal kingdoms - from the giant banyan trees down to the micro-organisms of the soil, air and water that make up the eco-systems and share the biosphere. All are inter-related, all ultimately dependent on each other, all sustaining each other as they move forward and evolve towards the next stage in terrestrial evolution, together.
- Some of the elements of this complex mix of life-forms have been here for millions of years. Others, like the local villagers and their livestock, for perhaps millennia. Yet others are more recent arrivals, especially the humans comprising today's mix of Aurovilians, as also the various species of animals, birds, insects, trees and plants which have taken up residence since Auroville began, the latter in some cases returning after a long interval, others apparently coming for the first time, never seen before in this area in living memory.
- This is Auroville today, but we should not forget the many species also yet to come, from the vast resources of nature, representatives of a future Planet Earth where in all life-forms will live in symbiosis, consciously or unconsciously dependent on and supportive of each other, species for which Auroville wants to create a sanctuary.



THE GREENING OF A WASTELAND

Two hundred years ago Auroville and its environs was covered in forests and there is evidence that there were tigers and elephants. In 1825 British, and later French, policies promoted deforestation: plots of land were awarded to people to clear and farm as wood was needed to build cities and for exportation. Much of the cleared land was later left to erode and in less than two hundred years a rich forest was turned into an expanse of baked earth scarred with gullies and ravines.



Rusty-spotted Cat, A species of wild cat discovered in 1831 from the region and documented here again in 2016 after a gap of 185 years

In the late 60's and early 70's the pioneers of Auroville gained a foothold on this damaged land. They had no choice: they planted and they dug, an uncomplicated approach which was refined over the years and which has made Auroville what it is today, a land of pleasant and verdant green. At the beginning young seedlings had to be protected from grazing livestock and raised bunds and check dams were created to help retain the topsoil and prevent monsoon rains from washing it away into the sea.



Upon entering Auroville today one can only get a vague idea of what the land used to look like. The trees, cool air and rich biodiversity are testament to the fact that over two million trees have been planted since 1968 setting in motion natural self regeneration.

MS SWAMINATHAN RESEARCH FOUNDATION VEDRANYAM



உலர்ந்தநிலை பசுமை ம

ருத் தாவரங்கள்



TROPICAL DR

N FOREST

MINOR PROJECTS

These principally involved painting on Kadapa stone slabs / marine plywood

Anna Nagar Park, Chennai

Marina Beach, Chennai (these have been removed)

Otteri Park, Chennai

Crocodile Bank, Vadanemmel (near Mammalapuram)

Visitors' Centre, Auroville

Botanical Garden, Auroville

Children's Park, Puducherry

Wild Orchid Resorts, Yercaud

Snake Interpretation, Puducherry Forest Dept.

And many private commissions

Working at Art Department



ONGOING PROJECT

Toyota Kirloskar Motors, Bidadi, Mysore – Bangalore Highway

This is a major project for a 25 acre eco zone on the Toyota Kirloskar Motors campus. PFC has undertaken the artworks for the park.

EVOLUTION TIMELINE

Follow the emergence of key animals and plants, major extinctions, climatic changes and shifting of the Earth's crust.

Beginning with the Earth's most dramatic explosion of multicellular diversity and ending with your final half step - the emergence of early Hominids leaving their life in the trees to walk on two feet.

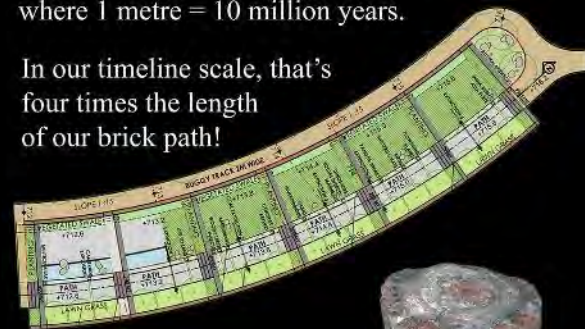
Bangalore is an ancient land. The granite stones used for these slabs and pillars are around 205 billion years old. They were formed around the time when the first oxygen giving bacteria (Cyanobacteria) appears on earth.



Explore the extraordinary story of complex life on Earth along this 60 metre brick path - The last 600 million years of evolution.

This timeline is made to a scale where 1 metre = 10 million years.

In our timeline scale, that's four times the length of our brick path!



FICUS SPECIES AND THEIR BIODIVERSITY





Imago
or Adult



Butterfly
emerges
from pupa



Pupa
or Chrysalis



Life Cycle of
Crimson Rose



Caterpillar
or Larva



Nerium oleander

Egg

Crimson Rose
Pachliopta hector



Oleander Hawk Moth
Daphnis nerii

Ixora arborea

Canavalia birosea



Common Tiger
Danaus genutia

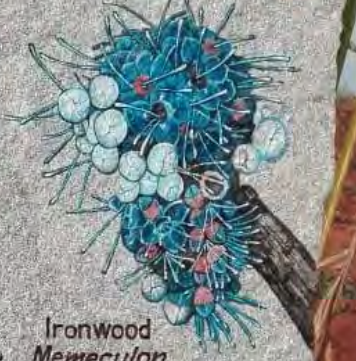
Fig Wasp
Family-Agaonidae



Fruit of Fig
Ficus racemosa



Weaver Ants
Oecophylla smaragdina



Ironwood
*Mimocylon
umbellatum*



Blister Beetles
Family-Meloidae



Jewel Beetle
Family-Buprestidae







THANK YOU