



NEWS LETTER



INDRADHANUSHYA

PUNE MUNICIPAL CORPORATION

INDRADHANUSHYA ENVIRONMENT EDUCATION AND CITIZENSHIP CENTRE

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Indradhanushya is a public facility of the Pune Municipal Corporation to create environment awareness and promote responsible citizenship, thinking and action towards sustainable development in Pune. The main thrust of Indradhanushya is to spread the message of environment conservation in society and develop skills and attitude in citizens which could improve their environment literacy and environment performance of the city.

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FROM EDITORS DESK

There was a time when people thought of the environment, they thought of its beauty; but now as the natural beauty of the earth that disappears, many people around the world have awoken to the realities of just how fragile our earth actually is. The overall perspective of environment pollution is an important aspect, which involves the presence of harmful substances in the air, land, and water. Although pollution has been observed throughout the earth's lifecycle however, the rate by which the human species have contributed to the amount of pollutant that has entered into environment over the past several hundred years far exceeds the earth's inherent ability to heal itself. Along with pollution, the mass deforestation of the forests has also posed a growing problem to the health of our environment. The clearance of forests without sufficient reforestation has gradually wore down nature's natural defense against air pollution, desertification, similarly soil nutrient & quality reached to the point that we are now facing a future world without trees, which would ultimately mean a world without people.

Indradhanushya conducts education programs/workshops/seminars for students, teachers, professionals etc. on environmental themes. As the Editor of this center, it is my belief that children should be in a learning environment which is fun, loving, and based on Biblical principles. For students it develops appropriate modules, activities which are both enjoyable and educational. The education program at *Indradhanushya* uses variety of approaches that not only improve their knowledge base but also make them pro-active. This includes presentations, audio-visuals, outdoor visits, assignments, guest lectures etc. It also conducts teacher orientation workshops on Environment Education as well as workshops for NGOs on preparation of Environmental Status Report (ESR). Technical sessions on pollution related issues are also being conducted here. It also celebrates significant environment days by conducting competitions (quiz, drawing, debate, speech etc.) for students. based on themes of environment. Pune Municipal Corporation would like to use the forum of *Indradhanushya* for inculcating the habits of environmental conservation among citizens & mainly children. Pune Municipal Corporation invites various NGO's , citizens groups in the various activities of *Indradhanushya* to nurture the health of "Mother Earth"

Mr. Naresh Zurmure, IFS

Additional Municipal Commissioner (General) & Chief Garden Superintendent, PMC

INDRADHANUSHYA: A PUBLIC FACILITY

To serve citizens as; an interpretation centre or a resource for information on environment, to conduct activities which could inculcate environmental and civic values in citizens so that Pune inhabits aware and responsible citizens. With such theme in mind, '*Indradhanushya Environment Education and Citizen Center*' was conceptualized.



Indradhanushya focuses to sensitize the public by infusing a sense of responsibility through behavioral change.

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It also conducts teacher orientation workshops on Environment Education as well as workshops for NGOs and citizen on preparation of Environmental Status Report (ESR). Technical sessions on pollution related issues are also being conducted here. It also celebrates significant environment days by conducting competitions (quiz, drawing, debate, speech etc.) for students etc. based on themes of environment.

Behind all these initiatives and programs there is a vision for Pune city. To achieve this vision, goal, aim and objectives have been set.

VISION

To develop Pune as a city of responsible citizens and environmental stewards.

GOAL

To make *Indradhanushya* a hub for environment related activities and resources and develop it as an interpretation centre for Pune city.

AIM

To create environment awareness, promote responsible citizenship and inculcate environment friendly attitudes among citizens.

OBJECTIVES

- To conduct non-formal education programs/workshops/seminars/shows/competitions for students, teachers, professionals, senior citizens etc. on environment related issues with a focus on *Role of Individual*, *Solutions* and *management aspects*.
- To develop innovative community based action oriented projects for school students to inculcate: environmental values, need for conservation, ownership for nature heritage and which ensures sustainability.
- To develop linkages with various schools, colleges, research institutes, NGOs and other related organizations working for environment and conduct programs in collaboration for our own environment.
- Facilitating public participation to implement sustainable development strategies thus creating a healthy environment for the city.

International students under any exchange program or as a part of their curriculum also visit *Indradhanushya* as an interpretation center for the city which delivers them the required and appropriate knowledge about Pune.

PROGRAMS/ACTIVITIES AT INDRADHANUSHYA

• ENVIRONMNET EDUCATION PROGRAMS FOR SCHOOL STUDENTS

Indradhanushya covers both corporation as well as private schools. Visits for the schools are the regular scheduled activity of *Indradhanushya* which are decided a month before in advance and there by the monthly calendar for *Indradhanushya* is always packed.

School visits are scheduled for 4-5 hours and constitutes starts with an 'Introduction to *Indradhanushya*' followed by a detailed visit for each and every exhibit in its design including the outdoor space. This is then accompanied by an environmental documentary on an environmental issues. Session ends with a power point presentation on environmental problems faced by the city, such as air pollution, water, noise pollution, solid waste management etc.

MES boys high school students(530students), Gole Vidyalaya(60 Students),Sant Namdeo vidyalaya(119students), Garware School (113 students), Savitribai Phule Vidyalaya (196student),Maloji Ambedkar Vidyalaya (85 students), Rafi High school (355)&M. M. A. Johar High school (86 student)respectivelyvisited *Indradhanushya* along with outdoor visit. Children were then given presentations on 'air pollution', 'water pollution', 'solid waste management' and a documentaries show on 'King Cobra', 'Shekru', 'Bandhavgarh National Park' with pre- and post- discussion.

On special occasions in terms of environmental concerns, guest lectures are also kept to raise awareness among students as:



ECO-FRIENDLY

GANESHOTSAV:With the aim to celebrate eco friendly festivals, there is a need to create a mass awareness for eco-friendly 'Lord Ganapati celebration';*Indradhanushya* had arranged a session in which students were taught to make idol of Lord Ganapati from traditional clay and by using natural colors. Mrs. Swati Pathak; member of an NGO *Sanskar*

Foundation was invited for a lecture. She also dealt with the mythologies, origin of Genesh festival, issues related to Lord Ganapati Immersion and need of Eco-friendly Lord Ganapati.This

is a small step taken by *Indradhanushya* towards inculcating the concept of eco-friendly festivals in children which incorporates the environmental perspectives in such celebrations.

TRAFFIC SAFETY WEEK: On the occasion of “Traffic Safety week” a guest lecture was organized at *Indradhanushya* under the regular school visit schedule. Assistant Police Inspector of Traffic Police Department, Mr. Kaygude was invited for the session. He explained about the traffic rules and norms to students along with the safety precautions and its need. Students keenly attended the lecture and learned the rules of ‘responsible driving’.

ENVIRONMENTAL DOCUMENTARIES

With the aim to spread the message of Nature Conservation to the masses and as a part of events conducted at *Indradhanushya*, environmental documentaries are being arranged on a regular basis. Such documentaries are complete guide to know about the ecology, ethology, breeding behavior, habit, habitat, conservation status and various issues linked with the animal and its conservation etc. Hence, these serve as an efficient tool to sensitize the viewers about the importance of wild life in environment and its conservation.

LIST OF DOCUMENTARIES SCREENED AT INDRADHANUSHYA

DATE	DOCUMENTARY	DIRECTOR
20/08/2011	The Truth About Tigers	Shekar Dattatri
03/09/2011	King Cobra	Rom Whitekar
17/09/2011	Pack	Krupakar Senani
01/10/2011	Saving The Tigers	Bedi Brothers
02/10/2011	Rolling Dunes of Thar	Bedi Brothers
03/10/2011	Last Chance for Bustards	Ashish Chandola
04/10/2011	Elephants: Living Giants	Ashish Chandola
05/10/2011	Maldhok	Doordarshan
06/10/2011	Gharial	Bedi Brothers

07/10/2011	Cherub of the Mist	Bedi Brothers
15/10/2011	Oceans	Perrin J
05/11/2011	Elephant Corridor	P.S.B.T
19/11/2011	In the Pink	Ashima Narain
03/12/2011	Save Our Sholas	Shekar Dattatri
17/12/2011	Fragile Web	Mike Pandey

CELEBRATION OF ENVIRONMENTALLY SIGNIFICANT DAYS

- WORLD TOILET DAY**

On the occasion of World toilet day, an elocution competition was held at *Indradhanushya* Environment Education and Citizenship Center on 19th November 2011. The Day was celebrated along with Pune based Ecosan Services Foundation (well known for their work in Sustainable Sanitation and Water Management) and Eco logic foundation (indulge in awareness related activities). Topic for elocution competition was *“What if you don’t have toilet? Think about citizens in Pune who is deprived of safe sanitation? What can be done to improve the situation?”* Evaluators for the competition were Mr. Mangesh Dighe, Environment Officer Pune Municipal Corporation and Mr. Pravin Saptarshi retired professor and Head of Department of Environment Sciences University of Pune and Head of Department for Geography department SP College. After the competition, a presentation was shown to participants on personal hygiene and significance of toilets in context to open defecation and related health problems.

- AIDS DAY**

1st December is observed as AIDS DAY. To create awareness about AIDS, its spread and precautions, *Indradhanushya* had organized the programs at three different locations in Pune so that the information could be delivered on a mass scale. The destinations were Fergusson College, Bharati Vidyapeeth Hospital and Rajiv Gandhi Zoological Park, Katraj. At each

destination there was a program for 2 hours which included a lecture on AIDS awareness for students by well known personality working for the disease named Dr. Sanjivini Kulkarni from Prayas followed by a street play. The whole program was accompanied by a poster display on AIDS disease.

- **TEACHERS ORIENTATION WORKSHOP**

Monthly ‘Teachers Orientation Workshop’ is being conducted at Indradhanushya for teachers of different higher secondary schools and junior colleges. The workshop constitutes a presentation on ‘Environment Education’ for teachers on what is it, what are the approaches for it, what are its components/objectives, how an environment educator is different from an environment teacher and how environment education should be inculcated in teaching patterns of teachers so as to develop requisite attitudes in students which could lead to eco-friendly life style and conservation oriented perspectives. ‘A visit to Indradhanushya’ has also been kept as a part of the workshop as it serves as environment awareness tool through its design. An interactive discussion and experience sharing session calls for an end for the workshop so as to share each other’s deeds in terms of environment so that all the participants may get an idea and motivation from each other.

- **ALLIED PROGRAMS AT INDRADHANUSHYA**

Indradhanushya not only conducts its own programs but also provide a platform to organize the programs/workshops/seminars, documentaries/movie shows on environment, presentations on environmental issues etc. *Indradhanushya* is recognized as an environment resource for citizens and is available for environment related programs for free of cost.

On the occasion of Nag Panchami Green India Clean India and ALERT had organized Sarp Mitra program for the snake handlers of Pune on 03/08/2011. Hon. Mayor of Pune, Shri Mohan Singh Rajpal was the Chief Guest and distributed insurance policies as well as the snake handling kits to snake handlers from various regions of Pune. A power point presentation dealing with the current status, threats as well as the conservation issues related to the snakes was shown

to them and a discussion was held by the guest speaker and herpetologist Mr. Ram Bhutkar on continuous decrease in the count of snakes also gave guidelines for safe handling and shared some of his experiences with the snake handlers.

Maitri, a charitable trust of Pune had organized an open experience sharing session of their program ‘Associated College

from Mid-west’ (ACM) on 04/08/2011. *Maitri* is involved in encouraging the volunteers for civic work under which they had a program named ACM in which their students from US had lived at Melghat (Maharashtra) for social work and worked on projects related to Women’s health, Melghat’s music, child



health, education and other issues. They were at Melghat for 3 weeks with their host family. It was an effort from Maitri to serve the society to solve some of Melghat's rural problems which are in need of such services and often neglected.

A Diploma course in Environmental Education which addresses the rapidly growing need for continuing education and professional development in the field of Environmental Education (EE), Education for Sustainable Development (ESD) was organized. The course is geared to build capacity of teachers and educators. It was held on 26/08/2011& 27/08/2011. Through different modules and supporting activities teachers are taught different concepts of environment in a holistic approach and made to conduct projects by students for partial fulfillment of the certificate. After the completing the course the participant teachers and educators are certified GREEN TEACHERS.

Nagarwasti Vikas Yojana: a PMC initiative has organized ‘*Apanach Ghadvu Aplyala*’ on 17/09/2011. The program aimed towards creating environmental awareness amongst women

of Self Help Group. Initiative for the program was taken by Deputy Municipal Commissioner Mr. Dnyaneshwar Molak. For the program there was a presentation by ALERT on ‘Global Warming’ and its impacts on environment followed by a lecture by Mr. Dnyaneshwar Molak on conservation practices and a presentation for women about the safety precautions to be taken while using LPG and during cooking by Mrs. Gadre, Hindustan Petroleum. The animated documentary about this safety was shown to participants, followed by a short lecture on safety precautions to be taken while cooking and while storing the cylinders.

Environment Service Scheme has been initiated by Environment Department of Maharashtra Government for around 50 secondary and higher secondary schools in 12 districts of the state on 19/12/2011 to 25/12/2011. The objective of the program is to explore and understand local environment, natural resources and associated issues through hands on activities and demonstration of positive actions towards conservation. 14 NGOs from the 12 districts have also been identified who will act as district facilitators for effective implementation of the scheme. Centre for Environment Education, Pune is the scheme implementing agency for the program and has to conduct capacity building workshops for participant teachers and NGOs.

On 24/11/2011, 25/11/2011, 26/11/2011 Cycle Safety program is an initiative to promote cycle as an Sustainable Mode of Transport which as a preliminary step towards introducing Cycle as a transport medium for students of selected schools of Pune at defined locations. It was organized by CEE and Parisar.

PRESENTATIONS AT INDRADHANUSHYA

S. No	DATE	TOPIC	PRESENTER	DESCRIPTION
1	28 Aug 2011	KAAS Plateau	Shri Shrirang Shinde, Forest Ranger, Forest Department, Satara (MH)	It was an in-depth presentation on bio-diversity of KAAS and urged people to help forest dept in conserving the biodiversity of KAAS for its uniqueness.
2	05 Oct 2011	Tadoba-Andhari Tiger Reserve	Mr. Nitin Kakodkar, Chief Conservator of Forest Pune	The presentation dealt with introduction on TATR, its floral diversity, faunal diversity, forest fire, meadow management, water management, soil conservation, poaching, grazing, monitoring, human – wild life conflict, research options at Tadoba, human resource development, tourism, challenges.
3	27 Dec 2011	Air Pollution Modelling	Dr. Sarath Guttikunda, Founder, UrbanEmissions.info, New Delhi	It was based on 'Application of SIM-air Modeling Tools for Air Pollution Analysis in Indian Cities' This study was conducted to understand the sources of air pollution in the Pune city and to support an integrated dialogue between local pollution management and climate policy in a co-benefits framework. These tools can help establish a multi-pollutant emissions inventory, estimate PM pollution via dispersion modeling, assess the health impacts of current and future emissions, and provide a platform to optimize among pollution control interventions. The tools are free and modularized for rapid assessment.

PRESENTATIONS

Indradhanushya also organizes guest presentation on various issues related to environment. These presentations address audiences of different sectors and stakeholders in environment. These are conducted by experts of different fields.

ENVIRONMENT AWARENESS PROGRAMS

- **TREE FEST**

The Pune Tree fest was an attempt to draw attention to the trees and greenery around us in the city of Pune during one focused week 6th – 9th January 2012.



Several Pune groups have come together for this venture – Pune Municipal Corporation, Oikos for ecological services, CREDAI, Pune

Tree Watch, Ecological Society, Green Hills Group, Bluewiss, Neeti Solutions, ARI, CEE amongst others, as well as interested individuals and schools – colleges like Symbiosis Arts & Commerce students, Bharti Vidyapeeth, Abhinav Kala Vidyalaya who are gifting their time and expertise to the venture.

The idea was to celebrate our trees – through poetry, art, walks, theatre, public meetings and knowledge-sharing about activities like T-shirt painting, tree hunt, composting, organic farming, tree tagging, tree names, wall painting etc. through small events at various locations in the city, rather than any big centralized events. Fest was thought to aware people more about trees in their own surrounding and makes them realize the diversity and importance of floral heritage which needs to be conserved. Such kind of events dedicated for a purpose and executed with an aim comes up with better understanding of the issues related to environment.

- **WILD INDIA**

Wild India; a ‘wildlife festival’ was jointly organized by Pune Municipal Corporation, Nature Walk and *Indradhanushya* Environment Education & Citizenship Center on 13th and 14th January 2012. It was an attempt to bring citizens close to wild life (Flora, Fauna and Aves) by screening documentaries on wild life, which could give them a close eye for wilderness and biodiversity of fauna along with knowledge about specific species regarding its habit, habitat

distribution, feeding and breeding habits etc. Some of the screened movies were: The Last Migration (by Mike Pandey), The Ganges Gharial (Bedi Brothers), Cherub of the Mist (By Bedi Brothers), Magic of Spiders Web (Suresh Elamon), God of Monsoon (by Shekhar Dattari), The Hunted (by Jay Mazoomdaar) and several others. Participation of citizens was on a mass scale and were really keen and enthusiastic.

Along with these screening, Tree Walk at different locations in Pune were arranged under guidance of Mr. S.D. Mahajan; renowned botanist and author of famous field guides on Indigenous flora of Maharashtra and Mr. Kiran Purandare; renowned environmentalist and bird watcher of Pune. Around 500 and 1100 citizens participated in the tree walks respectively.



An interactive session was conducted by Mr. Naresh Zurmure, Additional Municipal Commissioner (Gen), Pune on Wild Life Trade, particular to the Chandrapaur region, Maharashtra. He unfolded the whole chain involved in the crime right from tribal to politicians along with the detailed elaboration of ways, pattern and equipments used in the wild life crime. It was the most acknowledged events of Wild India by citizens.

It was accompanied by photography exhibitions on rich biodiversity of India photographed by renowned photographers like Shrikant Ranade, Pravinish Pardeshi, Raja Purohit, Sanjay Deshpande, Vinod Bartakke, Kishor Gumaste and many more.

A quiz competition was also part of the event to test the students' knowledge about Indian wild life and current environmental scenario. Around 150 students participated in the competition.

- **INTER-SCHOOL DRAMA COMPETITION**

Maharashtra Pollution Control Board, Pune Municipal Corporation and Eco-folks had jointly organized the Inter-school Drama Competition on 21 January 2012. Around 25 schools participated in it. Best schools were awarded prizes and to encourage student's individual prizes for best actor, actress, writer and director were also delivered. This competition was tool to make the students understand the environmental issues and problems and deliver a message to society for its conservation and management.

- **ENVIRONMENT FEST**



Indradhanushya
Environment Education
and Citizenship Center,
Pune Municipal
Corporation has
conducted an
Environment Fest from
28th November to 4th
December 2011. The aim
of the fest was to create
awareness among

students. Fest was an effort of Pune Municipal Corporation's *Indradhanushya* Environment Education and Citizenship Center, to provide students a platform to perform, recognize their caliber and potential in terms of knowledge and awareness for environment, acknowledge it and encourage them for future. Under this fest, various competitions like Drawing, Essay, Elocution, Street Play, Model, Quiz, and Extempore were organized for school as well as college students. Expert lecture by a guest speakers were also arranged as a part of the fest. Winners were awarded with prizes and certificates from Pune Municipal Corporation. Participation of the students was also acknowledged (participation certificates).

Environment Fest one of the biggest and successful events arranged on the platform of *Indradhanushya* and has been thought to be organized every year.

WORKSHOPS ON “ENVIRONMNET STATUS REPORT” FOR NGOs

Around 10 workshops were conducted at *Indradhanushya* for various NGOs/organizations/institutes/individuals of Pune to enable their participation in the process of making an Environment Status Report (ESR) of the Pune city. ESR is a mandate as per Bombay Provincial Municipal Corporation (BPMC) Act 1949, Section - 67 (A) and its preparation is the responsibility of the Urban Local Body of the city.

ESR basically indicates the status of environmental parameters or variables of the city and identifies areas for improvement. Since ESR is a comprehensive document and made with a holistic approach; all the stakeholders; public / NGO's were thought to made a part of it. This participation was achieved by conducting series of workshops throughout the year on ESR making process. Each workshop was intended for a chapter in ESR. Separate workshops were also conducted for corporators under the ESR Committee and Head Of various Departments of Pune Municipal Corporation.

The various workshops were conducted as follows:

WORKSHOPS ON ESR FOR NGOs

S.No.	DATE	TOPIC	DETAILS
1	14/09/2011	Introduction of D-P-S-I-R -(<i>Driving Forces, Pressure, Status, Impacts and Responses</i>)	It's the framework formulated for format of ESR by MPCB for all the major cities of Maharashtra.
2	30/09/2011	Environment Performance Index (EPI)	EPI is the quantitative determination of the environmental performance of the city.
3	18/10/2011	Driving Forces	Driving Forces are the factors which govern the growth of a city.
4	09/11/2011	Pressure	It deals with the pressure generated on natural resources and services for the city due to driving forces.
5	18/11/2011	Status and Impacts	Status - It deals with the resulting status of environmental parameters of the city. Impacts - It deals with the effects on human beings, biodiversity and environmental factors due to the status.
6	25/11/2011	Responses	It deals with the action to be taken by ULB/Citizens/NGOs to improve environmental status and performance of the city to improve EPI of the city.
7	02/12/2011	Responses	
8	09/12/2011	Responses	
9	16/12/2011	<i>Paryavarniya Drushtikshepatun Arthsankalp</i>	It deals with the budgetary allocations made to improve environmental conditions of the city.
10	23/12/2011	<i>Paryavarniya Drushtikshepatun Arthsankalp</i>	



To,