



That was a very sunny and pleasant morning. My daughters and me were lazing around the beach near Mumbai. Mom saw the turtle, she ran down to take it and came back almost crying as the turtle was dead. It takes me down the memory lane when I used to tell my daughters about the nice stories of turtles, butterflies, sea shells etc . But in the year of time the oceans have become garbage bags. Human on earth ruthlessly put all the waste especially the plastic waste everywhere, which is not biodegradable and ultimately it goes to the ocean. It certainly hurts to the living things in the ocean.

There is a big garbage patch which is known as the Great Pacific Garbage Patch which has existed since long. Charles Moore a racing boat captain discovered the patch when he was sailing from Hawaii to California. The entire Great Pacific Garbage Patch is bounded by the North Pacific Subtropical Gyre. An ocean gyre is a system of circular ocean currents formed by the Earth's wind patterns and the forces created by the rotation of the planet. The area in the center of a gyre tends to be very calm and stable.

The amount of debris in the Great Pacific Garbage Patch accumulates because much of it is not biodegradable. Many plastics, for instance, do not wear down; they

Turtles in Plastic Bowls



simply break into tinier and tinier pieces.

About 80% of the debris in the Great Pacific Garbage Patch comes from land-based activities in North America and Asia. Trash from the coast of North America takes about six years to reach the Great Pacific Garbage Patch, while trash from Japan and other Asian countries takes about a year.

Marine debris can be very harmful to marine life in the gyre. For instance, loggerhead sea turtles often mistake plastic bags for jellies, their favorite food. Albatrosses mistake plastic resin pellets for fish eggs and feed them to chicks, which die of starvation or ruptured organs. Seals and other marine mammals are especially at risk. They can get entangled

in abandoned plastic fishing nets, which are being discarded more often because of their low cost. Seals and other mammals often drown in these forgotten nets—a phenomenon known as “Ghost Fishing.”

Hundreds of thousands of sea turtles, whales, and other marine mammals, and more than 1 million seabirds die each year from ocean pollution and ingestion or entanglement in marine debris. Marine debris is manmade waste that is directly or indirectly disposed of in oceans, rivers, and other waterways. Most trash reaches the seas via rivers, and 80% originates from landfills and other urban sources. This waste, which is also consumed by fish and can entangle sharks and damage coral reefs, tends to accumulate in gyres.

Continued on Page 4



Environmental Education Training Program



In association with TATA Motors, an Environmental Education Training Program had organized by TERRE at Nutan Marathi Vidyalaya, Pune on 4th August 2016 and at Sharada Vidyalaya, Navi Peth, Pune on 20th August 2016.

The main objective of this training program was to Train, Aware and Educate students regarding Environmental Issues. This training had initiated with screening of 'Vasundhara Geet' created by TERRE. Students enjoyed watching the video. Then TERRE team had an interactive session related to current environmental situations with the help of Audio Visual. For children's entertainment, TERRE have prepared games like Snake and Ladder, Playing cards, Crosswords etc.

Education through entertainment is the main motive of these games. Later these games were introduced to the students by TERRE.

The program was followed by a discussion on 'Life Cycle Assessment of Plastic Bottles' by screening of videos regarding the same.

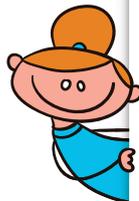
The entire program was concluded by distributing Environmental Education Training Material amongst the students. The training program had conducted successfully and TERRE received very enthusiastic response.

President's Corner

“ If you think you have thrown bags away, remember: there is no away! Every bag you have ever thrown away is stored in landfill somewhere. Use reusable bags and help to stop the destruction of our eco-systems.”

- Dr. Vinitaa Apte
President, TERRE





TERRE Publications

Environmental based Educational material



Snake & Ladder Game (Marathi / English)



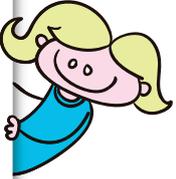
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TERRE Policy Centre
306, Multicon Square, Next to Manohar Mangal Karyalaya, Erandwane, Pune - 411004 (India)

☎ 020- 25448650
✉ terrepolicycentre@gmail.com | info@terrepolicycentre.com


Celebrated Social Rakshabandhan



On the occasion of Rakshabandhan, Karve Stree Shikshan Sanstha's Media Department celebrated 'Social Rakshabandhan' with the theme 'Say NO to Plastic and E-Waste'.

On 19th August a lecture was organised by Dr. Vinitaa Apte, on the topic of 'E-Waste Management' at Karve Stree Shikshan Sanstha. The main objective of this lecture was to spread awareness about electronic waste management and environmental impact of E-Waste on community. Today's generations are the ones who are using electronic gadgets in several forms.

Hence it is important to educate them to reduce the use of electronic materials.

The lecture was initiated with screening of an audio visual clip regarding human affecting the environment and it was followed by the discussion on the same.

Dr. Apte shared her experiences regarding her visits to different countries and her presence at different summits and meetings in Environmental Field. Students asked many questions related to their local environmental situations and received satisfactory answers.

From Page 1...



DO YOU KNOW?

- Plastic bags are petroleum-based and do not biodegrade.
- Sea turtles and other marine creatures mistake plastics and other garbage as food (such as jellyfish) and ingest it. This mistake causes blockages within their digestive system and eventual death.
- According to the US EPA, Americans use more than 380 billion plastic bags and wraps each year. It takes 12 million barrels of oil to produce this many bags. Worldwide, as many as one trillion plastic bags are used each year. This equates to 100 million barrels of oil!
- Plastic toxins end up in fish, which end up on our plates, which end up inside our bodies.
- In 2007, San Francisco was the first city in the United States to ban petroleum-based plastic bags in large markets and pharmacies.
- Less than 5% of plastics are recycled worldwide!

Thus the human on earth needs to use recycle bags and less use of plastic, else one day all the turtles will die in plastic bowl and the Earth will become of plastic. ◆ ◆ ◆

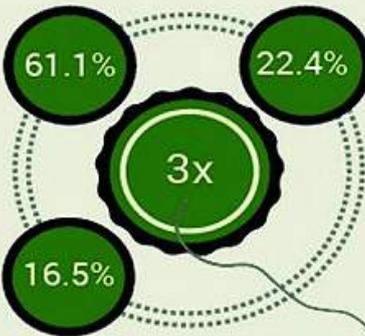
INTERESTING TREE FACTS



- There is an official tree for every state.
- The tallest tree in the world is located in California and is 369 ft tall.
- The U.S. plants about six trees per citizen each year.



Said they display artificial Christmas trees in their homes.

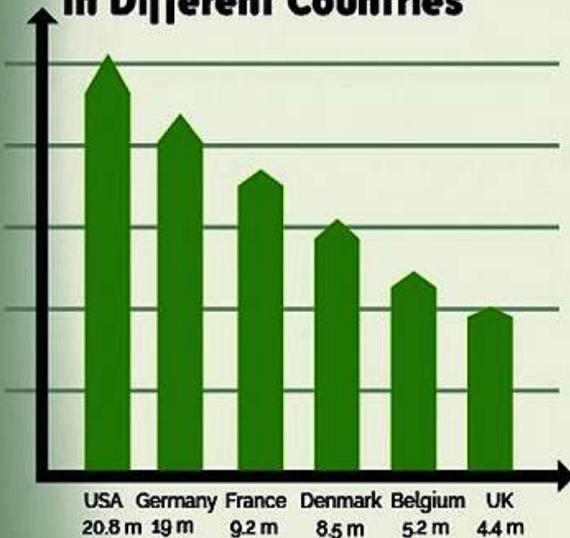


Said they did not display any Christmas trees in their homes.

Said they display real Christmas trees in their homes.

More people display artificial trees instead of real trees in their homes.

Annual Trees Grown In Different Countries



The Impact of 1 Million Trees

\$

Provide air pollution control worth \$62 billion.

Absorb 38,000 metric tons of CO2 in the first ten years.

Top 3 Most Popular Real Trees



Supply oxygen to 4 million people daily.

Offset the climate impact of 8000 passenger vehicles.



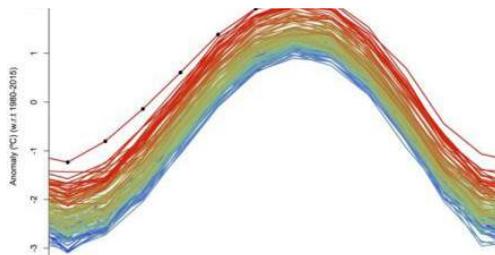
NEWS NETWORK



Agriculture in 115 Indian districts most at risk from climate change

As floods ravage eastern and northern India, agriculture in 115 districts across 15 states is “highly vulnerable” to climate change, according to a study published in the Indian Academy of Science journal Current Science.

http://zeenews.india.com/exclusive/agriculture-in-115-indian-districts-most-at-risk-from-climate-change_1915045.html



July 2016 was warmest on record, NASA analysis finds

July 2016 was the warmest July in 136 years of modern record-keeping, according to a monthly analysis of global temperatures by NASA. The record warm July continued a streak of 10 consecutive months dating back to October 2015 that have set new monthly high-temperature records.

<https://www.sciencedaily.com/releases/2016/08/160817085303.htm>



Global warming may cause flooding in Himalayas but drought in Andes

In a unique study showing how different regions of the planet may react to global warming differently, researchers have shown that people in the Himalayas will have to contend with flooding, while those in the Andes will have longer dry spells and less water.

<http://timesofindia.indiatimes.com/home/environment/the-good-earth/Global-warming-may-cause-flooding-in-Himalayas-but-drought-in-Andes/articleshow/53506837.cms>

‘Celebrating World Honey Bee Day’ as Honey Bee plays an important role in Ecosystem.



Niraj Kumar

Office Address

TERRE Policy Centre
306, Multicon Square, Near Mhatre Bridge, Erandwane, Pune - 411004
Office Phone : 020- 25448650

Media Centre

TERRE Policy Centre
22 Budhwar Peth,
Pune 411002 (India)
Office Phone : 020-24441537

Activity Centre

TERRE Policy Centre
Pandit Ajaekar Scheme,
Khandobacha Mal, Bhugaon,
Pune - 411042 (India)

Editor NewsleTERRE:
Dr. Vinitaa Apte (President, TERRE)

Editorial Team : Ankit Gaurav,
Rajkumari Suryawanshi, Nitin Joshi

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info@terrepolicycentre.com | www.terrepolicycentre.com