

Volume No. 5

July - August 2014

Issue No. 4

From the Editor's desk...

I have got used to the special issues of Scribbles. Writing an editorial for a special issue is easy. What could be the possible thoughts one can share with in this issue?

To start with, World Environment Day was celebrated on June 5th. These days there is so much of attention that corporates, social organisations, governments pay to sustainability, of which the environment is one part. The first few pages of this issue of Scribbles are devoted to sustainability reports that Chemplast Sanmar has released. We are proud that we have an A+ rating from GRI, a global organisation, for the last three years. We have featured a slice from the themes of these reports.

Special issues of Scribbles do not provide much avenue to feature general contributions of our readers. Therefore, this issue has been devoted to doing just that. There is quite a variety, for the young and old, for the serious and fun types.

Now, the thought that I would like to leave you with. I received this message one early morning from a friend who is very conscious about fitness. The subject of the mail was Health and it immediately caught my attention. I have re-produced the message that I received. What a thought early morning!

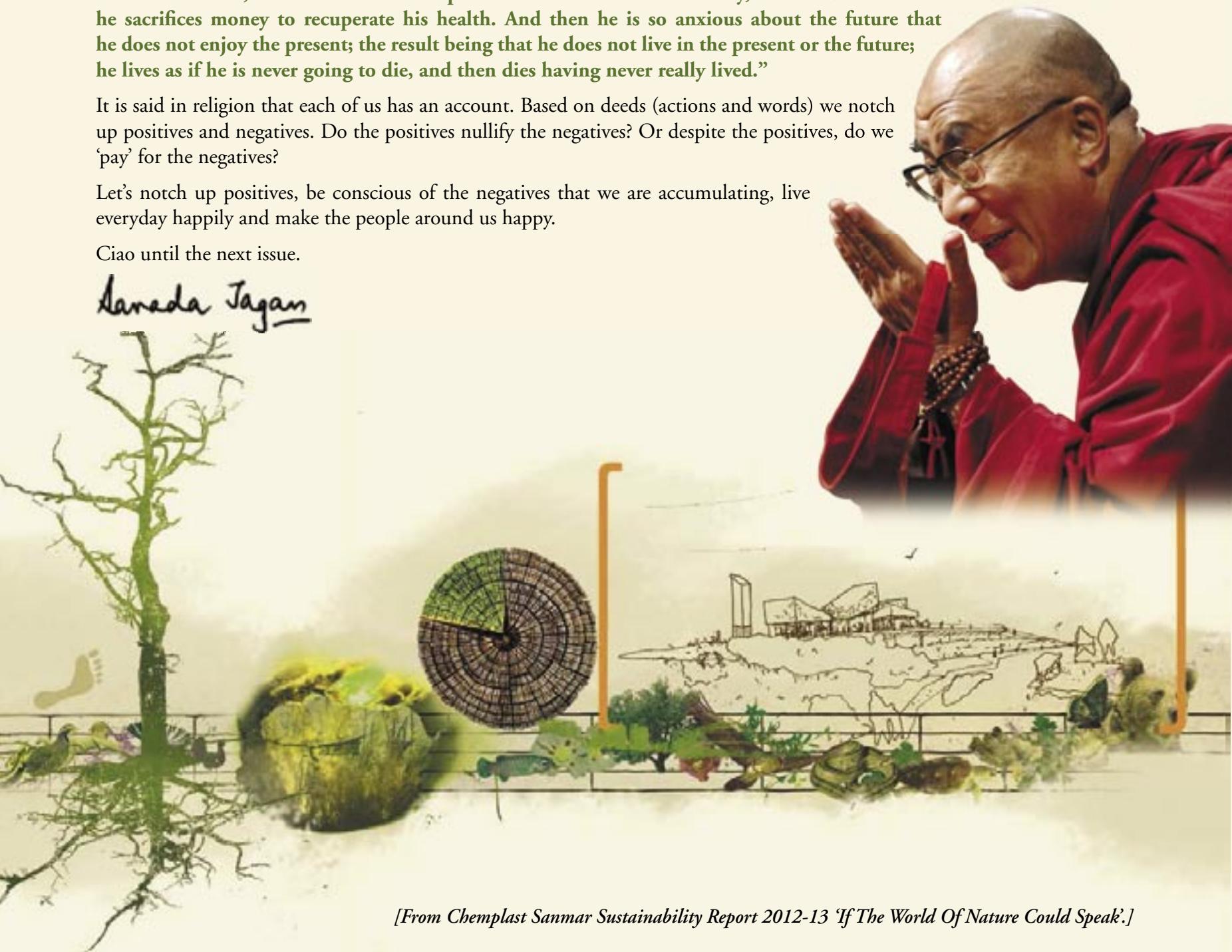
The Dalai Lama, when asked what surprised him most about humanity, answered “Man. Because he sacrifices money to recuperate his health. And then he is so anxious about the future that he does not enjoy the present; the result being that he does not live in the present or the future; he lives as if he is never going to die, and then dies having never really lived.”

It is said in religion that each of us has an account. Based on deeds (actions and words) we notch up positives and negatives. Do the positives nullify the negatives? Or despite the positives, do we ‘pay’ for the negatives?

Let's notch up positives, be conscious of the negatives that we are accumulating, live everyday happily and make the people around us happy.

Ciao until the next issue.

Sarada Jagam



[From Chemplast Sanmar Sustainability Report 2012-13 'If The World Of Nature Could Speak.]

Guess Who? ! Given at the bottom of each page are the tips that will lead on to the photo of the person on the last page.

As a responsible corporate citizen, Chemplast Sanmar Sustainability Report is a statement of what we do, what we are trying to do, what we are doing well and where we need to improve. The four Sustainability Reports of Chemplast are in keeping with international reporting standards and have been given the highest grading of A+ by Global Reporting Initiative (GRI). The following pages feature extracts from the reports in keeping with the World Environment Day that was celebrated across Sanmar locations on June 5, 2014.



Extracts from Chemplast Sanmar Sustainability Report 2011-12 'Five Elements - Towards a cleaner world'

Space

That (the absolute) is complete; this (universe) is complete. From that completeness comes this completeness.
Remove complete from complete.
Yet complete alone abides.

In a balanced state, space provides charge of one's destiny. It provides a sense of direction and the ability to get organised, ensuring that one excels in all that one does. Space gives one the knowledge and awareness to understand new, creative and beneficial ideas.

At Sanmar, we are committed to the responsible use of this resource.
Stressing our respect for nature.

Our vision

'Combining integrity with excellence to ensure prosperity to all stakeholders on a continuous basis' - this is the macro-perspective that guides all micro-operations at Chemplast Sanmar Limited.

Our values

The Sanmar Group's enduring values serve as the ethical and moral canvas of Chemplast Sanmar's operations.

The Sanmar Group is one of India's industrial houses of renown, recognised for its high ethical standards, respect for intellectual property rights and adherence to the laws of the lands of its presence.

The Sanmar Group has focused on doing the right things the right way. The Group has codified its philosophies in three manuals intended to guide employees.

Earth

Set me, O Earth, amidst the nourishing strength
That emanates from thy body.
The Earth is my mother. Her son am I.
Infinite space is my father,
May he fill us with plenty.

The only element connected to all five senses of the human body. Symbolically, our body represents the earth, which acquires life. When this perishes, the eternal elements return to their eternal form. As a result, work (*karya*) is perishable while the atom remains eternal.

At Sanmar, we respect the sanctity of this element by voluntarily eliminating all effluent discharges.

Stressing our commitment to keep the earth safe for succeeding generations.

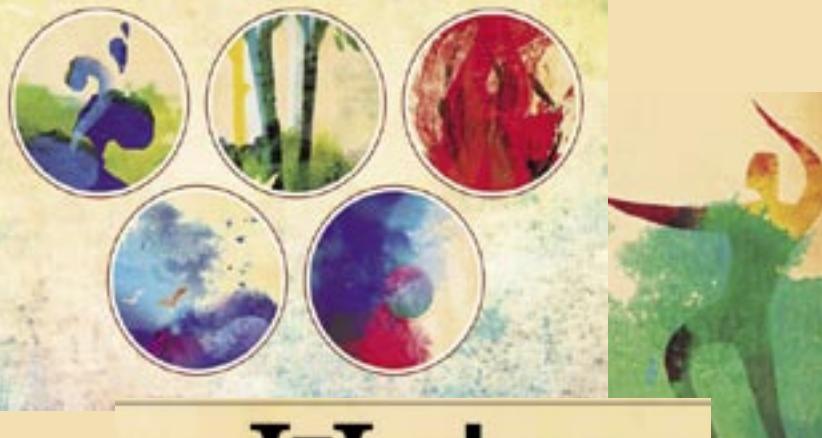
Wind

"From the breath of Purusha was born Vayu, the Wind; Vayu, first born among the breathing ones."

When this element is under our control, our minds are at peace. By controlling the mind, we acquire the capacity to manage all the other elements and use those energies to our advantage.

At Sanmar, we have invested extensively to keep the environment clean in the areas of our presence.

Underlining our regard for nature's bounty.



Water

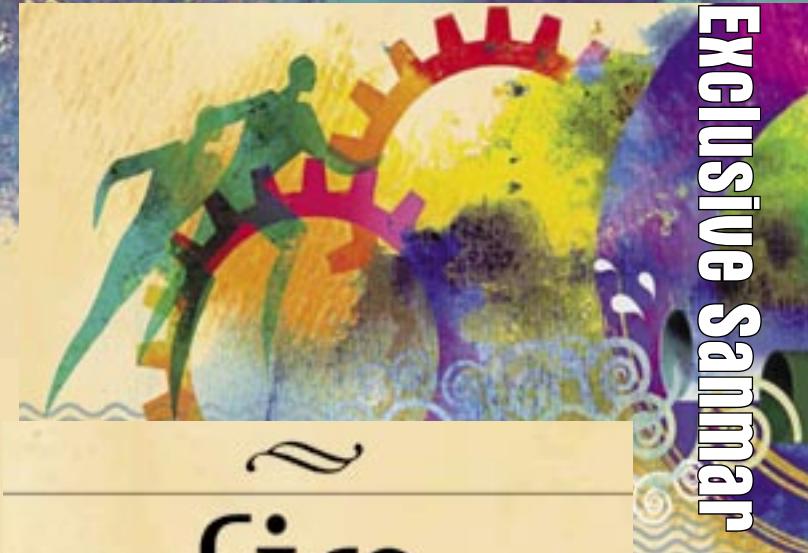
"Sindhu in might surpasses all the streams that flow... His roar is lifted up to heaven above the earth; he puts forth endless vigour with a flash of light... Even as cows with milk rush to their calves, so other rivers roar into the Sindhu. As a warrior-king leads other warriors, so does Sindhu lead other rivers... Rich in good steeds is Sindhu, rich in gold, nobly fashioned, rich in ample wealth."

Ocean, Sea, River, Lake.

The sages of the ages respected water in all its forms.

For its life-giving capacity. Instrumental in the growth of plants and animals. For its capacity to provide water to drink. Over time, these water bodies were worshipped as a manifestation of divine female power (shakti). Some of these water bodies nursed entire civilisations.

At Sanmar, we conserve, recycle, purify and reuse water.



fire

Through Agni may we riches gain,
And day by day prosperity...
The worship and the sacrifice
Guarded by thee on every side
Go straight, O Agni, to the Gods!

Fire purifies.

Unlike other elements, we feel its awesome presence with all our senses.

Making it possible to convert matter from one state to another.

At Sanmar, we are committed to the responsible use of this resource through prudent utilisation, conservation and application.

Minimising our environmental load and making our operations safer for our employees, community and the world.

The responsible management of the five elements touches Chemplast Sanmar more directly than most other companies.

Water: Chemplast Sanmar treats all liquid effluents within its system and reuses the water within its own premises. It was the first large Indian chemical company to achieve the coveted Zero-Liquid-Discharge status in 2009.

Earth: Chemplast Sanmar disposes waste material (waste oil, used oil and oil contaminated with filter and sludge) to recyclers approved by the State Pollution Control Board. It disposes sludge from the waste-water treatment and brine plants in secured landfills.

Air: Chemplast Sanmar's air pollution monitoring system automatically triggers the dust sprinkler system to enable dust elimination during coal handling. In addition to this, relevant pollution parameters are captured by the on-line/field pollution monitors (namely Chlorine, Hydrogen fluoride, VOCs, SPM, NO_x and SO₂) and transmitted to TNPCL (Chennai).

Fire: Chemplast Sanmar minimises energy consumption through a proactive investment in initiatives like the membrane cell technology, which has reduced energy consumption in a significant way.

Space: Chemplast Sanmar optimises the use of space across its manufacturing and administrative requirements.

Extracts from Chemplast Sanmar Sustainability Report 2012-13 'If The World Of Nature Could Speak'.

OUR BUSINESS PROFILE

CHEMPLAST SANMAR IS A PROMINENT CHEMICAL COMPANY, HEADQUARTERED AT CHENNAI (INDIA), WITH MANUFACTURING OPERATIONS IN SOUTH INDIA. THE COMPANY BELONGS TO THE SANMAR GROUP THAT IS ENGAGED IN THREE KEY AREAS OF BUSINESSES. CHEMPLAST SANMAR IS ENGAGED IN THE MANUFACTURE OF PRODUCTS LIKE PVC AND CHLOROCHEMICALS (CAUSTIC SODA AND CHLORINE, REFRIGERANT GASES, CHLORINATED SOLVENTS NAMELY METHYLENE CHLORIDE, CHLOROFORM AND CARBON TETRACHLORIDE).



SOCIAL SUSTAINABILITY

CHEMPLAST SANMAR HAS GENERALLY ENCOURAGED THE HIRING OF LOCAL TALENT FOR JUNIOR AND SENIOR MANAGEMENT POSITIONS TO ENHANCE WORK-LIFE BALANCE. BESIDES, THE COMPANY CREATED AN INVIGORATING WORKPLACE LEADING TO COMMUNITY DEVELOPMENT.



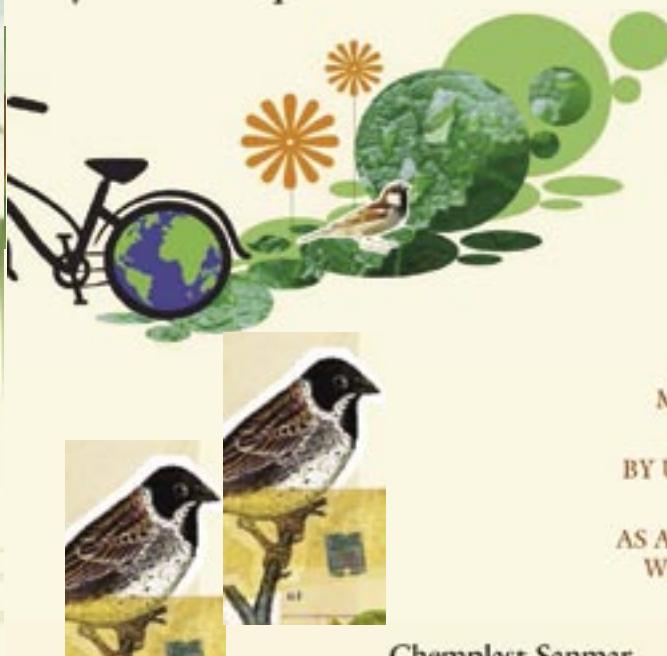
GROUND WATER

THE WORLD AND US

THE EXISTENCE OF FLORA AND FAUNA IS CRITICALLY INFLUENCED BY GROUND WATER INTEGRITY. IT HAS BEEN NOTICED THAT FLORA AND FAUNA ABOUND WHEREVER GROUND WATER IS CLEAN, ACCESSIBLE AND ABUNDANT. FOR CENTURIES, CLEAN SURFACE WATER SUSTAINED A LARGE BIOLOGICAL DIVERSITY, INCLUDING PLANT AND MARINE LIFE.

At Chemplast Sanmar, we bring a deep responsibility to the management of materials, processes, products and effluents. As an organisation dedicated to sustainability, we engage in a comprehensively responsible industrial approach.

Integration: The bedrock of Chemplast Sanmar's environment-centric approach is its integration, whereby the end-product becomes the raw material for another product manufactured by the company and so on. In this context, the entire quantity of salt manufactured by Vedaranyam is being consumed by caustic soda plants at Mettur and Karaikal and similarly the whole production quantity of Ethylene dichloride produced at Karaikal is being utilised for Vinyl chloride requirement of PVC Mettur.


 98
117
82
85

Chemplast Sanmar

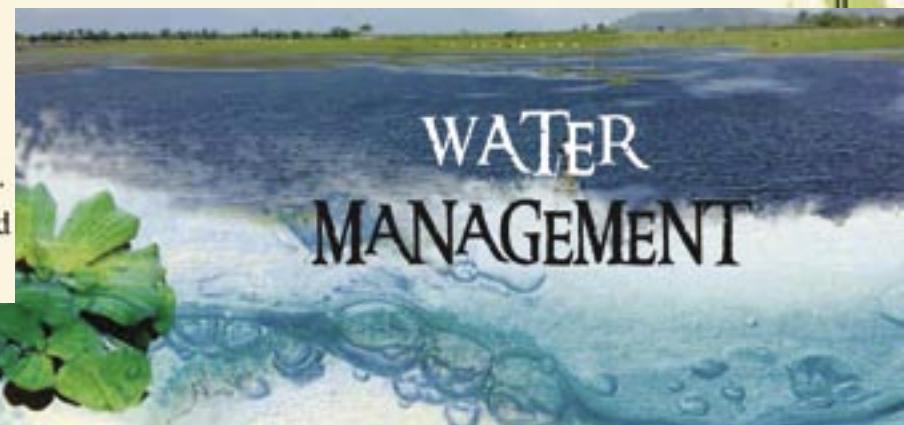
participated in the setting up of a study centre together with Bombay Natural History Society (BNHS) at Vedaranyam. The site recorded the second largest congregation of migratory water birds in India with a peak population in excess of 100,000 across 103 species. BNHS researchers captured, studied, ringed and released over 200,000 birds.

KEY IMPACTS, RISKS AND OPPORTUNITIES

AT CHEMPLAST SANMAR, EVEN AS OUR BUSINESS IS THE MANUFACTURE OF CHEMICALS, WE ARE DEEPLY CONCERNED ABOUT THE WELLNESS OF THE EARTH.

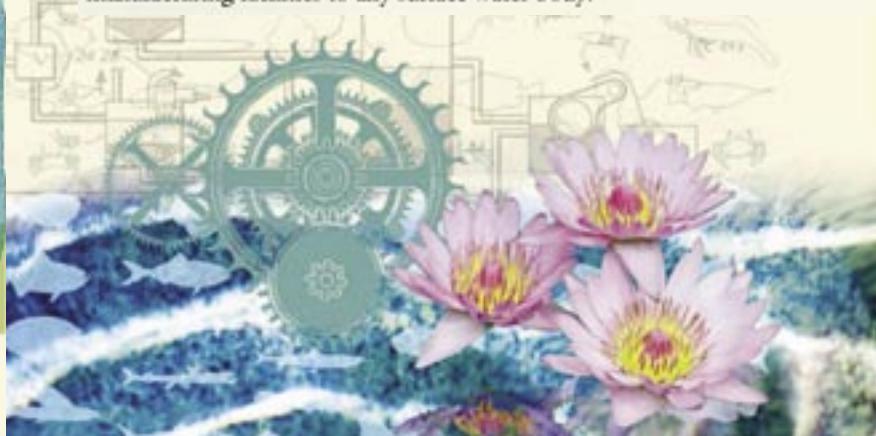
BY USING CUTTING-EDGE TECHNOLOGIES, WE ARE COMMITTED TO MAKING THE WORLD A BETTER PLACE.

AS A RESULT, ENVIRONMENTAL CONSIDERATIONS DO DICTATE THE WAY WE CONDUCT OUR BUSINESS. THEY FORM THE VERY BASIS OF OUR LONG-TERM SUSTAINABILITY.



EFFLUENT MANAGEMENT

The Company is encouraging and taking innovative and efficient steps to reduce the quantity of effluent. There is no discharge of treated effluent from any of the manufacturing facilities to any surface water body.



At Chemplast Sanmar, we have made the following resolutions:

- Every one of our plant facilities will be Zero Liquid Discharge
- No ground water shall be utilised for our industrial operations
- All new plants shall explore room for water conservation at the design stage itself

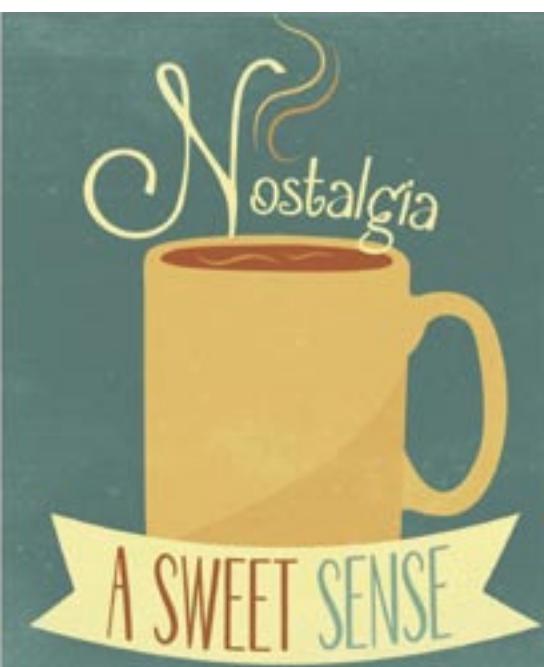


Exclusive Sanmar

World Environment Day celebrated across Sanmar locations on June 5, 2014.



Nostalgia ain't what it used to be



Nostalgia is a very funny thing. It's a disease that seems to strike people when they cross 60 - as it did to me.

Lately, I seem to be attending all kinds of reunions and undertaking nostalgia trips - school, college, hometown etc. All of these trips had one thing in common; the feeling of how nice the old days were in comparison to the present.

I grew up in Kolar Gold Fields and this mining town has almost shut down after the government brought

gold mining activities to a halt. Time seemed to have come to a standstill and when a group of us school friends from the Class of '65 visited KGF recently, it was almost as if we were entering a ghost town. The sense of nostalgia was, therefore, more overwhelming than if it had been a thriving place.

But that's not the point I wish to make in this article. If the old days were so good, how come we didn't feel it at that time? Why was I complaining about the black and white movies we were seeing when I'm able to enjoy them now? And why am I so nostalgic about the steam engine trains when I vividly remember being covered in coal dust after arriving in Bangalore from Oorgaum?

The truth is that nature has this wonderful ability to selectively retain all the good experiences / emotions from our past and hold back the pains, sorrows and traumas in the deepest recesses of our minds.

If we were given the chance to go back in time, would we say yes? We want the wide roads, lesser vehicles and fewer people of an earlier era. Do we also want (only) Doordarshan, 10-day railway reservations at Madras Central and trunk calls? I think not. What we'd really like is the wide roads, lesser vehicles and fewer people but together with the Internet, cable TV, smartphones, Facebook et al.

Nostalgia is a good emotion to have, but it must be balanced with an appreciation of the conveniences of modern living and, more importantly, an appreciation of present conveniences likely to disappear in the near future.

Switch forward to, let's say, 2040. If you were to look back at 2014, what are the things you are likely to miss?

Here is my list:-

- ✍ The newspaper and milk being delivered at the door.
- ✍ The vegetable vendor on his/her bicycle cart.
- ✍ The isthri person at the street corner.
- ✍ The raddiwala collecting old newspapers and other old stuff.
- ✍ The maid servant coming in daily.

One can keep adding to this list. But the important thing is to appreciate the conveniences we currently have.

AH Kesari Prasad, Xomox Sanmar, HO.

"E" the most eminent letter of the alphabet (But do not practice "E" in tamil)

'E' ... is the most eminent letter of the alphabet.

Men or women don't exist without 'E'.

House or home can't be made without 'E'.

Bread or butter can't be found without 'E'.

'E' is the beginning of existence and the end of trouble

It's not at all in war but twice in peace.

It's once in hell but twice in heaven'.

'E' represents emotions... hence all emotional relations like

Father,

Mother,

Brother,

Sister have 'E' in them.

'E' also represents effort & energy,

hence to be better from good,

both 'E' added.

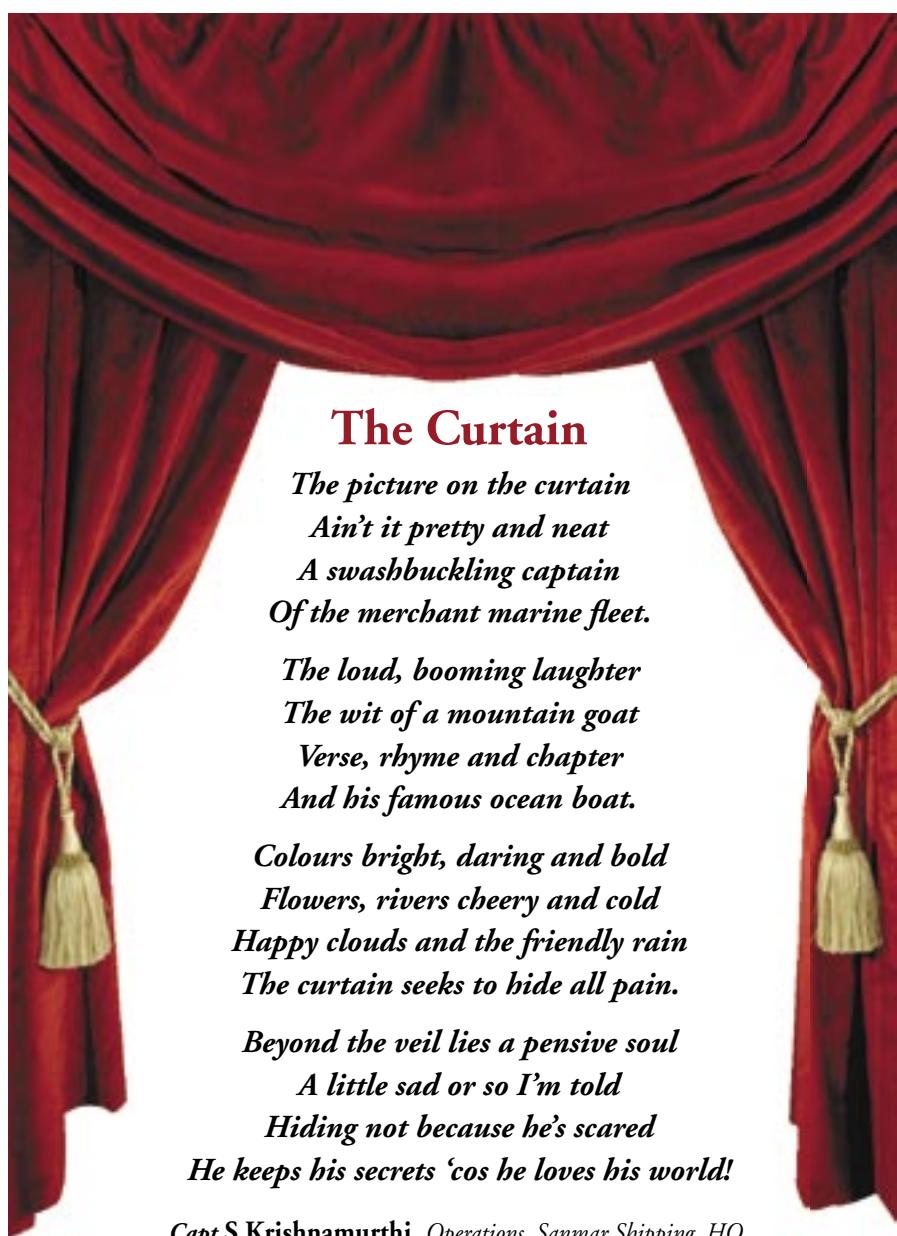
Without 'E', we would have no Love, Life, Wife or Hope &

See, Hear, Smell, or Taste.

As, Eye, Ear, Nose and Tongue are made of 'E'.

Hence, Go with 'E' but without EGO.

S Govindarajan, Support Services, Chemplast Sanmar, HO.



The Curtain

The picture on the curtain

Ain't it pretty and neat

A swashbuckling captain

Of the merchant marine fleet.

The loud, booming laughter

The wit of a mountain goat

Verse, rhyme and chapter

And his famous ocean boat.

Colours bright, daring and bold

Flowers, rivers cheery and cold

Happy clouds and the friendly rain

The curtain seeks to hide all pain.

Beyond the veil lies a pensive soul

A little sad or so I'm told

Hiding not because he's scared

He keeps his secrets 'cos he loves his world!

Capt S Krishnamurthi, Operations, Sanmar Shipping, HO.

Tarani Kumar Mandal, Sanmar Engineering Services, won the first prize in slogan competition at HMEL Safety Week Celebration, Bathinda.



Poem written by finance minister.

Tax his land, tax his wage,
Tax his bed in which he lays.
Tax his tractor, tax his mule,
Teach him taxes is the rule.

Tax his cow, tax his goat,
Tax his pants, tax his coat.
Tax his ties, tax his shirts,
Tax his work, tax his dirt.

Tax his chew, tax his smoke,
Teach him taxes are no joke.
Tax his booze, tax his beers,
If he cries, tax his tears.

Tax his bills, tax his gas,
Tax his notes, tax his cash.
Tax him good and let him know
That after taxes, he has no dough.

If he hollers, tax him more,
Tax him until he's good and sore.
Tax his coffin, tax his grave,
Tax the earth in which he lays.

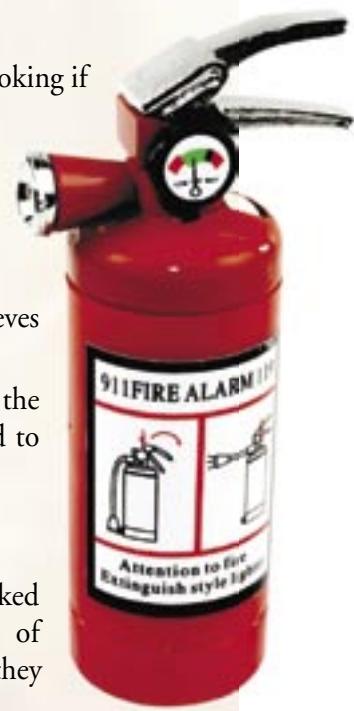
Put these words upon his tomb,
“Taxes drove me to my doom!”
And when he's gone, we won't relax,
We'll still be after the inheritance TAX!

PR Somaskandan, Internal Audit, Sanmar Corporate Division, HO.

Tips on Fire Safety

Cooking Equipment

- ✓ Keep an eye on anything you are cooking if the setting is higher than “warm.”
- ✓ Keep pot-holders, plastic utensils, towels, or other non-cooking equipment away from the stove, as these items can catch fire.
- ✓ Roll up or fasten long, loose sleeves while cooking.
- ✓ Store candy or cookies away from the stove so that kids won't be tempted to climb on it.



Lighters and Matches

- ✓ Keep lighters and matches in a locked cabinet out of sight and reach of children, and remind children that they are tools for adults, not toys.

Fire Prevention Strategy

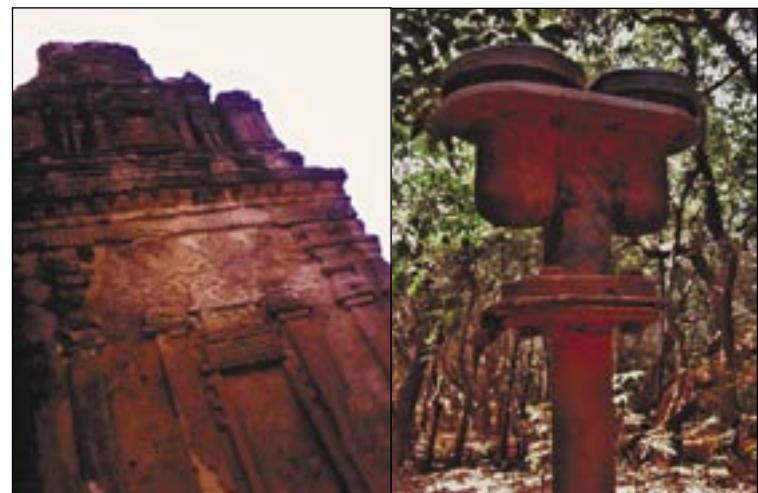
- ✓ Keep a fire extinguisher near the kitchen and have it checked yearly. Learn how to use it.
- ✓ Put out food or grease fires in a pan with a lid or another pot.
- ✓ Teach children safety rules for matches, fires, electrical outlets, electrical cords, stoves, and chemicals. Keep matches and flames, such as candles or lanterns, out of the reach of children.
- ✓ Buy children's sleepwear made of flame-retardant fabric. Dress children in flame and fire retardant clothing. Adults also need to be careful about wearing clothing with loose material that could catch on fire.



Other Tips

- ✓ Be careful when using candle during power cuts.
- ✓ Keep a watch on cooking utensil on gas stove.
- ✓ Don't use waste cloth to handle the cooking utensils.
- ✓ Never refill the kerosene when the stove is burning.

Dr D Valaiparameswaran, Medical Services, Chemplast Sanmar, Mettur.



Clicked at Gingee Fort by S Senthil, Quality Xomox Sanmar, Viralimalai.



Ghost Soldier On Duty In Indian Army

"Baba" Harbhajan Singh was a soldier in the Indian Army and worked in the Dogra Regiment during 1962 India-China War. This soldier died near the Nathula Pass in eastern Sikkim while on duty. After three days, his body was found and was cremated with full military honours.

Legend goes that Harbhajan Singh led the search party to his body and later through a dream instructed one of his colleagues to build and maintain a shrine after him. A shrine was built at his samadhi in the hills.

In the camp at Nathula Pass, his boots are polished and uniform is kept ready every night, a bed is also made for him. The sheets are reportedly crumpled every morning and boots muddy by evening. The ghost soldier continues to draw salary and takes his annual leave.

Ghost soldier gets two months annual leave every year and a First Class berth is booked in his name in the train. Every year on September 14, a jeep departs with his personal belongings to the nearest railway station New Jalpaiguri from where it is sent by train to his hometown village of Kuka, in Punjab.

This year too Dibrugarh Express carried belongings of "Baba" Harbhajan Singh to Jalandhar from New Jalpaiguri. The family of the late soldier received the belongings at the railway station. On completion of the leave the same team of the army personnel will escort the belongings back to the Nathula region.

Ghost Soldier's name still continues to be in the army's payroll, his mother receives his salary cheques and his due bound promotions are recorded as well. Late soldier is now treated as honorary captain after posthumous promotions. Though it may appear strange, it is true and Indian Army still honours this soldier.

Sourced by **S David Rajkumar**, Administration, Sanmar Corporate Division, HO.

Creative artwork with pencil waste and a pencil sketch.



By **P Kanish Pawan**,
5th Standard,
S/o E Pasupathy, Production,
Sanmar Foundries, Viralimalai.



By **T Chathushkavi Rajan**,
12th Standard,
S/o S Thiruvengadathan, Systems,
Sanmar Corporate Division, Karapakkam.

An Eagle's eyview of Sanmar HO



Clicked in closed quarters by **Ramadevi Ravi**,
Corporate Communications, Sanmar Corporate Division, HO.



Sourced by **R Ramesh**, Operations, Sanmar Shipping, HO.

9th Asian Schools Chess Championship

Ananth Ramdas S/o J Ramdas, *Finance, Sanmar Foundries*, won the silver medal in the Under-5 category of the Asian Schools Chess Championship with classical time limit, and a second silver medal in the Asian Blitz (5 minutes per player per game) which concluded on September 5, 2013 at Hikkaduwa, Sri Lanka.



Ananth, born February 4, 2008 is a Second Standard student of Sri Sankara Senior Secondary School, Adyar. He trains at Aaron Chess Academy in Kasturba Nagar, Adyar. At Hikkaduwa, Ananth won six games, drew two. In the Under-5 Blitz, where each player has only three minutes per game, he secured the silver medal with a score of five points from seven rounds.

Spot the Difference



Maze-Guide me!



Try to figure out these scrambled words about the ENVIRONMENT!

- | | |
|--------------|--------------|
| 1. RTESE | 8. NPALTS |
| 2. VRIER | 9. GTOLIBOIS |
| 3. DCAI NIRA | 10. TERSFO |
| 4. LUPLONIOT | 11. ATNOSIBT |
| 5. STMEESCYO | 12. TTBAIAH |
| 6. RDEEHASWT | 13. DFOO BWE |
| 7. NIRA | 14. TWARE |

The Three Questions

King Akbar was very fond of Birbal. One of the courtier always wanted to be the chief minister, but it was not possible as Birbal filled that position. One day Akbar praised Birbal in front of the courtier and this made him very angry. He said that the king praised Birbal unjustly and if Birbal could answer three of his questions he would accept that Birbal was intelligent. Akbar always wanted to test Birbal's wit and readily agreed. The three questions were;

1. How many stars are there in the sky?
2. Where is the centre of the earth?
3. How many men and women are there in the world?

Akbar asked Birbal the three questions and informed him that if he could not answer, he would have to resign.

To answer the first question, Birbal brought a hairy sheep and said, "There are as many stars in the sky as there is hair on the sheep's body. My friend the courtier is welcome to count them if he likes."

To answer the second question, Birbal drew a couple of lines on the floor and bore an iron rod in it and said, "this is the centre of the earth, the courtier may measure it himself if he has any doubts."



In answer to the third question, Birbal said, "Counting the exact number of men and women in the world would be a problem as there are some specimens like our courtier friend here who cannot easily be classified as either. Therefore if all people like him are killed, then and only then can one count the exact number."

Red Crab Migration on Christmas Island

Christmas Island is a small Australian island in the Indian Ocean, 2,600 kilometres northwest of the city of Perth, that is home to many species of animal and plant.

The island is particularly noted for its prodigious populations of Christmas Island red crabs, a species of land crab that is endemic to the island, and their spectacular migration from the forest to the coast each year during the breeding season.

At the beginning of the wet season (which is usually October/November), over 50 million adult red crabs suddenly start migrating from the forest to the coast to breed. The migration is usually synchronised all over the island. The males lead the first wave of the migration and are joined by females as they progress. The crabs take about five to seven days to reach the sea. The rains and moist overcast conditions make their journey to the sea long and difficult.



During peak migration times, sections of roads where crabs cross in high numbers are closed to vehicles for short periods of time. The bright red carapaces and sheer density of crabs make their routes to the sea observable from the air.

After mating the females release their eggs into small burrows on the sea where they hatch, and the young larvae develop into tiny small crabs. After remaining for about a month in the ocean, the young crabs, only five millimetres across, accompanied by the adults make their long trek back home. Upon reaching the inland, the crabs disappear into rocky outcrops, fallen tree branches and debris on the forest floor for the next three years.

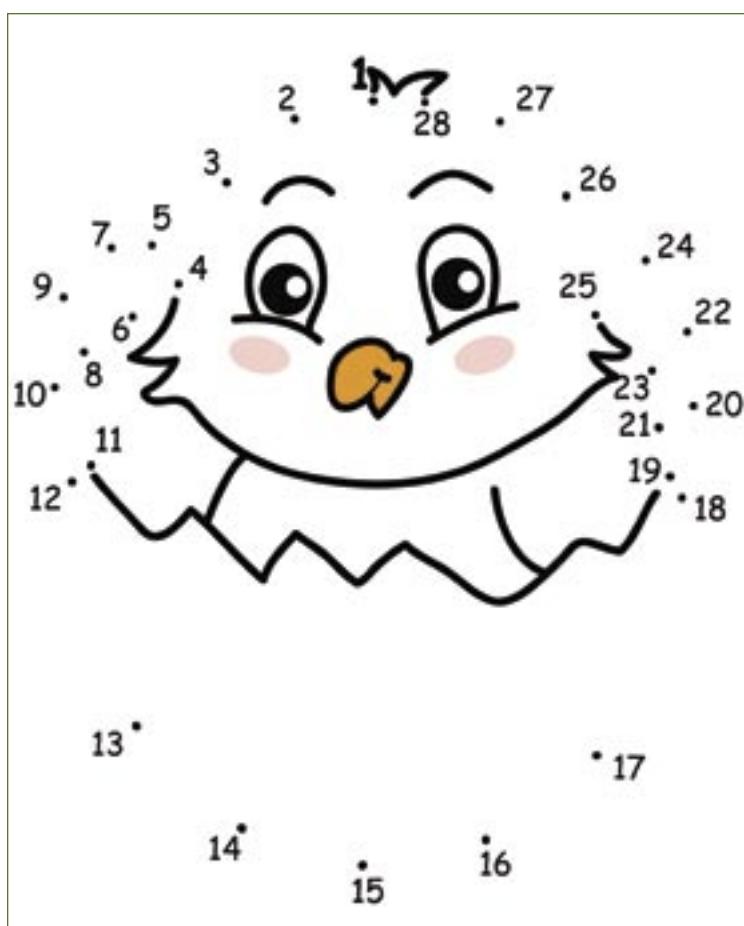
Human activities have led to increased numbers of red crabs being killed during their annual migration. The crabs risk dehydration when they are forced to cross areas cleared of forest cover and many thousands of adults and young are crushed by vehicles as they cross the roads. To protect the crabs from being crushed by vehicles some roads are also temporarily closed off and crab crossing signs erected at places by the staff of Christmas Island National Park. Walls and plastic fencing along the roads are also built to funnel the crabs to the 'crab crossings' and 'crab bridges' where they may safely cross.

The crab migration and the crab bridges have become a great tourist attraction.

S Sankaran, Quality, Xomox Sanmar, Viralimalai.

**ROAD CLOSED
RED CRAB MIGRATION
NO ENTRY BY VEHICLES
BEYOND THIS POINT**

Join the Dots...

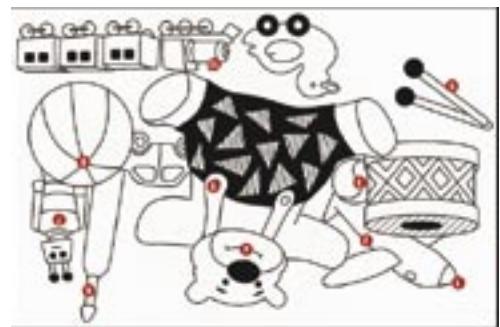


- Answers
 1. TREES
 2. RIVER
 3. ACID RAIN
 4. POLLUTION
 5. ECOSYSTEM
 6. WATERSHED
 7. RAIN
 8. PLANTS
 9. BIOLOGIST
 10. FOREST
 11. BOTANIST
 12. HABITAT
 13. FOOD WEB
 14. WATER



Where is this well-known shrine in North India ?

Write in to
 scribbles@sanmargroup.com



Sudoku

4				7		1	9	
				9				6
	8							2
		1	3	8		6		
7	9						4	
	6		5	4	7			
8						5		
3			1					4
	5	4		3				7

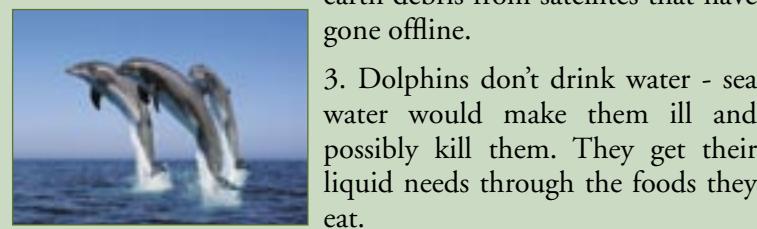
Did U Know?

1. Due to their extreme atmospheric conditions, it actually rains diamonds on Neptune and Uranus.



2. Approximately 4 million pounds of trash are currently in space orbiting the

earth debris from satellites that have gone offline.



3. Dolphins don't drink water - sea water would make them ill and possibly kill them. They get their liquid needs through the foods they eat.

4. The only continent with no active volcanoes is Australia. A volcano in Indonesia produces lava that looks blue.



5. Every year an area of natural forest the size of Greece disappears. Twenty-four trees are saved for every ton of recycled paper used.



6. A single mature tree can release enough oxygen back into the atmosphere to support 2 human beings.

7. Frogs can't swallow with their eyes open.

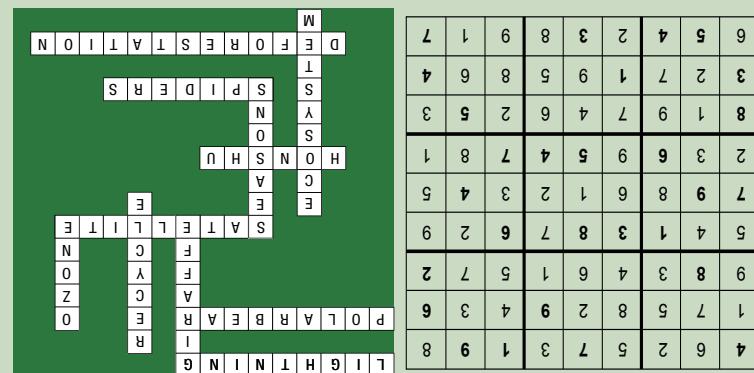
8. Elephant's ears are used to regulate body temperature.

9. Birds need gravity to swallow. African Grey Parrots have vocabularies of over 200 words. Hummingbirds are the only ones that can fly backwards.

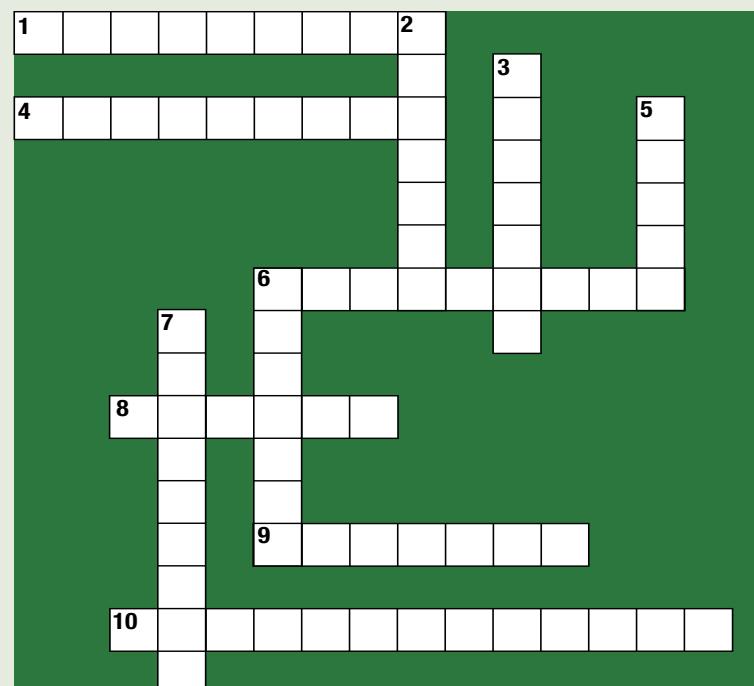


10. Asia and sub-Saharan Africa are most at risk from shocks to food supplies such as droughts or floods and other extreme weather conditions linked to climate change.

Answers to the Crossword & Sudoku



Crossword



Across

- occurs during thunderstorms (9)
- lives only in the Arctic region (9)
- to study earth from sky (9)
- which of its islands is Tokyo located (6)
- are arachnids and not insects (7)
- burning a forest (13)

Down

- cleans its ears with its 21 inch tongue (7)
- what to do with bottles and plastics (7)
- part of our atmosphere (5)
- weather patterns of regions (7)
- natural unit of flora and fauna (9)

Guess Who? !



American marine biologist, writer, naturalist and conservationist - Rachel Louise Carson. She was famous for advancing the global environment movement through her writings. *The Sea Around Us* remained on the New York Times Best Seller List for 86 weeks. She is regarded as one of the most influential people of the 20th century.

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