



Green Governance

newsletter

West Bengal Pollution Control Board

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Chairman's Column

Another quarter is over and WBPCB is one step forward in its mission for a cleaner and greener environment in our State. Besides our regulatory and monitoring activities, we have organized a few remarkable environmental awareness programs. It started with cleaning, restoration and beautification of a medium size water body within the premises of Vidyasagar Hospital at Behala that is now an attraction to numerous patients as well as to the common people of that area. The World Environment Day was celebrated with passion and enthusiasm. It was a huge event with participation of students from nearly forty eco-clubs of the schools. A few municipalities were felicitated for their excellent environmental work and students were given awards for winning the essay and quiz competitions. WED was also celebrated in the regional offices of the Board. Other major events packed in this quarter were Sabujayan Utsav (Afforestation Program) held at Red Road on August 17, 2013, and a number of similar programs all over the State.

A number of technical programs were also held with participants from industries – the two major ones being hands-on training for quality improvement of flyash bricks and use of fly-ash for agriculture. Both the programs made a down-to-earth approach with active participation of brick manufactures and farmers. About sixty-five farmers from areas where fly ash is generated thronged the auditorium of WBPCB along with agricultural extension offices to learn from experts how use of this solid waste can bring benefit to them.

The quarter passed with bubbling activities and it was all due to my colleagues at the Board that it was made to happen. We look forward to still more productive months ahead.

Prof. Binay K Dutta



Conservation & beautification of the water body inside Behala Vidyasagar State General Hospital under 'Jal dharo, Jal bharo' programme

The Hon'ble Chief Minister of West Bengal announced the programme '*Jal Dharo Jal Bharo*' for harvesting rainwater through re-excavation of ponds for sustainable development and management of surface and ground water. As part of this large scale project the West Bengal Pollution Control Board on behalf of Department of Environment, Govt. of West Bengal has completed the first phase job of conservation and beautification of the pond inside Behala Vidyasagar State General Hospital. On 8 April 2013, Sri Partha Chatterjee, Hon'ble Minister-In-Charge, Dept. of Commerce & Industries, Public Enterprises, Industrial Reconstruction, Parliamentary Affairs & information Technology, Govt. of West Bengal was present at the hospital premises to mark this significant achievement. He released goslings and fish pawns in the pond. Smt. Chandrima Bhattacharya, Hon'ble Minister-In-Charge, Dept. of Health & Family Welfare and Minister of State, Department of Law, Govt. of West Bengal graced the programme as special guest. Among the other dignitaries present in the programme were Sri Subrata Bakshi, Hon'ble MP of South Kolkata, Sri Tarak Singh, Mayor-in-council, Kolkata Municipal Corporation, Sri Maniklal Chattopadhyay, Borough Chairman, Kolkata Municipal Corporation and Sri Abhijit Mukherjee, Councillor, Kolkata Municipal Corporation. Prof. Binay K. Dutta, Chairman, Sri Dilip Kr. Chakraborty, IAS, Member Secretary and other senior officials of the State Board were also remain present in the programme.

Inauguration of a Stall for showcasing activities and achievement of Dept. of Environment (WBPCB, WBBB and IESWM) during last two years

As desired by the State Government, like other State Government departments, a stall was installed at 'Y' Road at Esplanade, Kolkata to display various activities and achievements of last two years performed by West Bengal Pollution Control Board (WBPCB), West Bengal Biodiversity Board (WBBB) and Institute of Environmental Studies & Wetland Management (IESWM) under the single umbrella of the Department of Environment, Govt. of West Bengal. The stall was well decorated by various photographs, display boards and attractive models depicting the details of activities and achievement of these three statutory bodies under the said department.

The West Bengal Pollution Control Board showcased its achievements in the field of National Green Corps Programme, awareness programmes, air, water and noise monitoring, waste management etc. The West Bengal Biodiversity Board highlighted on the biodiversity rich areas of the State like, Sunderban and the initiatives taken for awareness generation among the common people about biodiversity conservation. The IESWM also displayed its achievements related to wetland conservation and protection. Apart from this, on behalf of West Bengal Pollution Control Board and West Bengal Biodiversity Board two well decorated tableaus displaying various messages and attractive models depicting the activities of the respective organizations were flagged off on 10 May 2013 from Paribesh Bhawan, Kolkata. These tableaus travelled various places in Kolkata till 21 May 2013.

The stall was inaugurated by Dr. Sudarsan Ghosh Dastidar, Minister-in-charge, Department of Environment & Public Works, Govt. of West Bengal on 8 May 2013. Sri Trilochan Singh, IAS, Additional Chief Secretary, Department of Environment, Government of West Bengal, Prof. Binay K. Dutta, Chairman, Sri Dilip Kr. Chakraborty, IAS, Member Secretary of West Bengal Pollution Control Board, Dr. A.K. Sanyal, Chairman and Sri Debal Ray, IAS, Member Secretary of West Bengal Biodiversity Board and other senior officials of the department and the State Board were also remain present in the programme. The stall was remain open for visitors from 3 pm to 7 pm every day till 21 May 2013.



The State Board organized a cultural programme on 14 May 2013 to celebrate Kabiguru Rabindra Nath Tagore's Birth anniversary. Board officials performed Rabindra Sangeets and recitations during the one hour programme.

Anti-Plastic Campaign Programme during June-August 2013

Like previous years, the State Board carried out anti-plastic campaign programmes at various market places in and around Kolkata during June-August 2013. A number of students from various NGC schools participated in all these campaign programmes. They requested all buyers and sellers in the market to use paper, jute or cloth bags instead of plastic carry bags. The schedule of the programmes was as below:

Date	Venue	General activities during each campaign :
20-06-2013	Koley Market	<ul style="list-style-type: none"> ■ Students, teachers and other people assembled at the market place
28-06-2013	Manicktala Market	<ul style="list-style-type: none"> ■ All students participated in rally with banners and placards
09-07-2013	College Street Market	<ul style="list-style-type: none"> ■ Plastic carry bags were seized from various local shops in the market
16-07-2013	Gariahat Market	<ul style="list-style-type: none"> ■ Leaflets about restrictions and ill effects of using plastic carry bags were distributed among the shop owners, customers and local people for generating awareness among them.
23-07-2013	Lake Market	
30-07-2013	Shyam Bazar Market	
06-08-2013	Charu Market	
13-08-2013	Behala Pouro Panno Bithika	

Campaign I

The first campaign was organized on 20 June 2013 at Koley Market near Sealdah Railway station. Prof. Binay K. Dutta, Chairman of the State Board inaugurated the programme. Shri Debasish Kumar, Mayor-in-council, Shri Tarak Singh, Mayor-in-council, Smt. Mousumi Dey, Councillor of Ward No. 50 from Kolkata Municipal Corporation, Dilip Kr. Chakraborty, Member Secretary, West Bengal Pollution Control Board and other senior Board officials were present in the programme. 40 students and 2 teachers from M.L. Jubilee Institution and Cossipore Sree Gopal Vidyamandir for Girls participated in the rally.

Campaign II

The second programme was organized at Maniktala Market, Kolkata on 28 June 2013. Smt. Smita Bakshi, MLA, Sri Raj Kishore Gupta, local Councillor and Borough Chairman were present in the programme. Students from Siksha Niketan Vidyalaya for Girls, Maniktala Shiksha Bhavan (Girls High School) and Sishu Mahal Girls High School, 4 representatives from CEE and Board officials and staff participated in the programme.

Campaign III

The third campaign programme was organized at College Street market on 9 July 2013. About 30 students and two teachers of Hare School, Kolkata and Board personnel participated in the rally to campaign against using banned plastic carry bags among the buyers and sellers of the market area.

Campaign IV

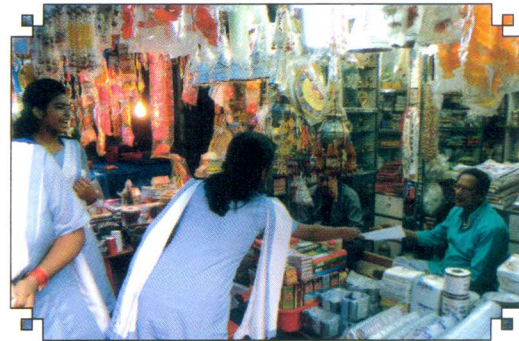
The fourth campaign programme took place at Gariahat market, Kolkata on 16 July 2013. Like the earlier programmes a rally comprising of 20 students, one teacher of Dhakuria Sri Ram Roy Institution and Board personnel was organized at the market.

Campaign V

The fifth campaign was organized on 23 July 2013 at Lake Market, Kolkata. Smt. Tanima Chatterjee, Councillor, Sri Durga Prasad Mukherjee, Borough Chairman, about 20 students and two teachers of Sri Aurobindo Balika Vidyalaya and Board officials participated in the rally organized to spread awareness among the sellers and buyers at the market about the ill effects of using plastic carry bags. The students distributed leaflets among the shop owners and requested them not to provide plastic carry bags to the buyers.

Campaign VI

The next campaign programme was organized on 30 July 2013 at Shyambazar market. About 80 students and two teachers of Shyambazar A.V. School, Kolkata, Sri Samarjit Bhattacharjee, Councillor (Ward No.-12), Sri Sadhan Saha, Borough Chairman and Board officials were present and participated in the rally to campaign against use of plastic carry bags among the common people.



School students participating in anti-plastic campaign programmes at various market places in and around Kolkata

Campaign VII

Seventh campaign programme was organized at Charu Market, Kolkata on 6 August 2013. About 20 students and 2 teachers of Tollygunge Girls’ High School, Smt. Jui Biswas, local councillor, Sri Tapan Dasgupta, Borough Chairman, police personnel from Charu Market Police Station and Board officials participated in the rally to spread awareness about not to use plastic carry bags and distribute leaflets to the buyers and sellers in the market.

Campaign VIII

Eighth programme was organized at Behala Pouro Panna Bithika market (Natun Bazar) on 13 August 2013. Sri Avijit Mukherjee, local councillor, about 25 students and two teachers from Behala Shyamasundari Vidyapith, two police personnel from Behala Police Station and Board personnel participated in the programme.

Celebration of World Environment Day 2013



The theme for this year’s World Environment Day celebrations is **Think.Eat.Save**: Reduce Your Foodprint. It is an anti-food waste and food loss campaign that encourages us to reduce our foodprint. According to



A rally alongwith tableau on World Environment Day 2013



the UN Food and Agriculture Organization (FAO), every year 1.3 billion tonnes of food is wasted. This is equivalent to the same amount produced in the whole of sub-Saharan Africa. Numerous people including children all over the world suffer from acute hunger and even die due to it.

The World Environment Day celebration is an annual event that is aimed at being the biggest and most widely celebrated global day for environmental awareness generation and facilitate positive environmental action. It is also a day for people from all walks of life to come together to ensure a cleaner, greener and brighter outlook for themselves and future generations. Department of Environment, Govt. of West Bengal and West Bengal Pollution Control Board propagate the same environmental message throughout the state by observing the day every year. On 5 June 2013 two rallies were organized from Harish Park and Minto Park to Rabindra Sadan to mark the very special day. A number of students, teachers, eminent personalities including Dr. Sudarsan Ghosh Dastidar, Minister-in-charge, Department of Environment & Public Works, Govt. of West Bengal, representatives of some NGOs, Board officials and staff heartily participated in those rallies with placards, banners in their hands, to propagate the environmental messages amongst the common people. Well decorated, colorful and attractive tableaux also traveled along with the rallies. Kolkata Police authority provided active support in organizing the rallies.

The following schools participated in the rally and thereafter attended the World Environment Day programme at Rabindra Sadan.

- | | |
|--|--|
| 1. Bajbajia Siksha Niketan | 21. Belgharia Deshapriya Vidyaniketan for Girls |
| 2. Baranagar Rameswar High School | 22. Birohi Netaji Vidyabhaban |
| 3. Ambica Saudamini Balika Vidyalaya | 23. Belari Saradamani Balika Vidyalaya |
| 4. Deshbandhu Vidyapith (High) | 24. Smt. Jahar Nandi Vidyapith |
| 5. Kaliapara R.K. Vidyabhaban | 25. Basudevpur Ramkrishna Vidyamandir |
| 6. Salkia K.B.R. Girls' High School | 26. Purba Kalikata Adarsha Vidyamandir |
| 7. Sri Aurobindo Balika Vidyalaya | 27. Baganela Jatadhari High School |
| 8. Kolsur High School (H.S.) | 28. Joynagar High School |
| 9. Maa Bishalakshmi Balika Vidyalaya | 29. Kotra A. A. Vidyapith (HS) |
| 10. Carey High School | 30. Rabindra Balika Vidyapith |
| 11. Panskura Bradley Birt High School | 31. The Park Institution for Girls |
| 12. Dudhe Budhe Gram Sabha Tribal Institution | 32. Kalyangarh S.S.S. Niketan |
| 13. Manicktala Siksha Bhavan (Girls High School) | 33. Tollygunge Girls High School |
| 14. Mishra Para Madhyamik Siksha Kendra | 34. Chetla Girls High School |
| 15. Monsuka High School | 35. Baidyabati Surendranath Ray Balika Vidyalaya |
| 16. Baxarah High School, Howrah | 36. Belur Khamarpara Girls High School |
| 17. Cossipore Sree Gopal Vidyamandir for Girls | 37. Bonhooghly High School |
| 18. Sarada Vidyabhaban | 38. South City International School |
| 19. Sarat Chandra Sur Institution | 39. Antila Anchal HP Vidyamandir |
| 20. Salap Vivekananda Institution | 40. Bally Barrackpur High School |

The main programme started at 10:30 am after the rallies reached at Rabindra Sadan. The programme began with an inaugural song performed by eminent vocalist Smt. Shraboni Sen. Sri Partha Chatterjee, Hon'ble Minister-In-Charge, Dept. of Commerce & Industries, Public Enterprises, Industrial Reconstruction; Parliamentary Affairs & Information Technology graced the programme as the chief guest. Dr. Sudarsan

Ghosh Dastidar, Minister-in-charge, Department of Environment & Public Works, Govt. of West Bengal and Dr. Rabi Ranjan Chattopadhyay, Hon'ble Minister-In-Charge, Dept. of Science & Technology, Biotechnology, Technical Education & Training, Govt. of West Bengal were present in the programme



as guest of honour. Smt. Arpita Ghosh, eminent theatre personality and President of Sishu Kishore Academy; Sri Jisshu Sengupta, renowned actor; Sri Trilochan Singh, Additional Chief Secretary; Department of Environment, Govt. of West Bengal; Prof. Binay K. Dutta, Chairman and Sri Dilip Kr. Chakraborty, IAS, Member Secretary of the State Board were also present in the programme. All the dignitaries present in the programme delivered their valuable speeches during the inaugural session followed by the prize distribution ceremony during which the winners of quiz and essay competitions among school students and eminent judges of those

competitions were awarded. Three students from each of the following schools were the winners of quiz competition:

- 1st - Birohi Netaji Vidya Bhaban
- 2nd – Salkia Kedarnath Babulal Rajgaria Girls' High School
- 3rd – Joynagar High School

Certificates were also distributed among all the participants in the final round quiz competition.

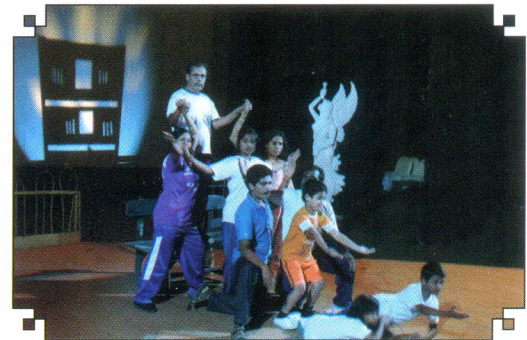
Four students of the following schools were the winner of essay competition :

- 1st – Baidyabati S. N. Balika Vidyalaya
- 2nd – Jamsheerpur B. N. High School
- 2nd – B. E. College Model School
- 3rd – Mitra Institution

Beside this, three municipalities (Chandannagar Municipal Corporation, Barasat Municipal Corporation and Kalimpong Municipal Corporation) were also awarded Environment **Leadership Award 2013** for performing appreciable work in the field of waste management and other environment related activities. This was followed by a drama on environmental awareness performed by the team of Sishu Kishore Academy.



Various events including cultural programme & prize distribution ceremony on World Environment Day 2013



Various events including cultural programme & prize distribution ceremony on World Environment Day 2013

Celebration of World Environment Day, 2013 by Durgapur Regional Office and laboratory



Like every year, this year also, Durgapur Regional Office cum Laboratory observed the World Environment Day on 12 June 2013. A rally along with tableaus was organized on that day starting from the office building it travelled through local areas and ended at Srijani Hall. School children, representatives of various industries and NGOs, local people and distinguished guests participated in the rally. Smt. Antara Acharya, IAS, Chief Executive Officer of Asansol Durgapur Development Authority inaugurated the rally. A cultural program was also organized at the hall. At the beginning of the program, Sri Sisir Mondal, E.E, DRO welcomed all the dignitaries and others present there. After a few encouraging and enriching words from Dr. Somnath Narayan, Sr. Environmental Engineer, Kankinara Circle Office, Dr. Kalyan Adhikari, Head of the Department, NIT Durgapur and Sri Apurba Mukherjee, Hon'ble Mayor, Durgapur Municipal Corporation the cultural programme started with Rabindra Sangeet followed by

recitations by Board officials. An environmental open quiz contest was also conducted and the successful participants were awarded. The cultural programme ended with a beautiful drama on environment namely “ADDAR RANG”. The whole programme ended satisfactorily and successfully.

Celebration of World Environment Day 2013 by Hooghly Regional Office

West Bengal Pollution Control Board, Hooghly Regional Office celebrated World Environment Day on 5 June 2013 at Madhubati Surobala High School, Madhubati, Singur, Hooghly. On the said occasion a rally was organised. Local people, school students and representatives of various NGOs participated in the rally followed by a programme during which Board officials delivered speeches on general environmental awareness among the people. Sri Prasanta Biswas, Head Master of Madhubati Surobal Vidya Mandir; teachers from Madhubati Surobal Vidya Mandir; Sri Subrato Das, Pradhan and Sri Susanta Adak, Member, Basubati Gram Panchayat; Sri Dukhi Ram Das, Karmadhakya, Singur Panchayat Samity and representatives from Basubati Karma Seva Samity – a local NGO were present in the programme.

Celebration of World Environment Day 2013 by Barrackpore Regional Office



To mark the World Environment Day 2013, Barrackpore Regional Office organized two separate programmes. A Sit and Draw competition was organized on 28 June 2013 in which students from various local schools participated. Another programme was organized on 12 July 2013 at Rabindra Bhawan, Shyamnagar. On that day, there was a rally followed by a cultural programme comprising of inaugural song, mime play, dance, drama etc. Dr. Dhrubajyoti Chattopadhyay, Pro Vice Chancellor, University of Calcutta, Dr. (Prof.) Supriya Munshi, Ex-Director, Gandhi Museum, Barrackpore; Sri Sandipan Dasgupta, I.A.S.,

Ministry of Information and Broadcasting, Govt. of India, Sri Sukumar Seth, Ex- I.F.S., Officer, Sri Santanu Chakraborty, Sub Divisional Information and Cultural Officer, Barrackpore Sub-Division, Police personnel from Barrackpore Police Commissionerate, various NGC school students, representatives from municipalities and Board officials were present during the whole programme.



A rally and a Cultural Programme held on 12 July 2013



Sit & Draw Competition & its prize distribution ceremony held on 28 June 2013

Celebration of World Environment Day 2013 by Malda Regional Office

For creating environmental awareness as well as celebrating the World Environment Day 2013 and Aranya Saptaha in a befitting manner, Malda Regional Office of West Bengal Pollution Control Board in association with Hyderpur Jyotiska Social Welfare Society, Malda organized several programmes including saplings plantation and Sit & Draw competition on 18 July 2013 at Paribesh Bhaban, Malda. After that there was a discussion session during which Dr. T. K. Gupta, Chief Engineer of the State Board welcomed every one present there and explained the necessity for conducting such programme for creating mass awareness on various environmental issues. Dr. Subhasis Roy and Sri Bibhansu Singha of Hyderpur Jyotiska Social Welfare Society, Malda also delivered their speech. At the end of this session, prizes were distributed among the successful participants of Sit & Draw competition.

Celebration of World Environment Day 2013 by Asansol Sub Regional Office



Asansol Sub Regional Office also celebrated the World Environment Day 2013 on 12 & 13 June 2013 at Asansol through various events. There was a Sit & Draw competition followed by a quiz competition on environmental topics on the first day.

On the second day, the programme was inaugurated by Sri Suresh Chadive, ADCP, Asansol-Durgapur Police Commissionerate. In the beginning of the programme, a rally was started from Rabindra Bhawan, BNR more, travelled through court more and ended at

Rabindra Bhawan. A tableau also travelled all through along with the rally. Sri Balaram Bhattacharya, DGM, SAIL (IISCO), Sri Subrata Dutta, Secretary, Asansol Chamber of Commerce, representatives of some industries, Board officials, students and teachers of various local schools participated in the rally. A cultural programme including recitation, dance, mime-play etc. was also organized. Apart from this, all the dignitaries delivered valuable speeches during the programme.

Celebration of ‘Samajik Bansrijan Utsav’, 2013 at Asansol

Social afforestation programme 2013 was celebrated on 20 July 2013 by Asansol Municipal Corporation, in collaboration with West Bengal Pollution Control Board at Bonogram, Burnpur.

The objective of the programme was to spread awareness about tree plantation amid mass particularly among the students and teachers. This was an inaugural ceremony to materialize the plantation drive of about 1 lakh saplings in Asansol as desired by the Hon’ble Chief Minister of West Bengal and the follow up action plans of the administration.

About 2000 school students, who are mostly Eco- club members accompanied by teachers and guardians participated in the programme. The programme was inaugurated by Gurubandana presented by the students of Ramkrishna Mission followed by the speech of Swami Sukhananda Maharaj. Other dignitaries present were Sri Tapas Bannerjee, MLA and Mayor, Asansol Municipal Corporation, Prof. Binay K. Dutta, Chairman, WBPCB, Sri A.K Nanda, Police Commissioner, Asansol-Durgapur Police Commissionerate, Sri Chandan Ghose, Chief Engineer, WBPCB, Sri Jitendra Tiwari, Chairman, Asansol Municipal Corporation, Sri Laxman Thakur, Mayor in Council, Asansol Municipal Corporation and others. Plantation of around 5000 saplings began by the grandees and carried on by the students. The plantation programme was followed by a cultural program including exquisite and worthy speeches of the dignitaries, dance by students, mime play by eminent Kalpataru Guha and his team etc. All those events were confined to the importance and gravity of the day dedicated to the inevitability of plantation.

Interactive Workshop on ‘Better Environment Management of Refractory and Silicate Industries’

Refractory Manufacturers’ Association, West Bengal in association with Asansol Sub Regional office of the State Board organized an interactive workshop on ‘Better Environment Management of Refractory & Silicate Industries’ on **20 July 2013** at Barakar, Kulti in Burdwan district. Prior to the workshop, the guests visited few Refractory units of the area to oversee the operation of coal fired Down Draft Kilns.



Sri Ashok Chakraborty, Secretary of RMA welcomed all the dignitaries and others present in the programme. Prof. Binay K. Dutta, Chairman, West Bengal Pollution Control Board graced the programme as Chief Guest and inaugurated the workshop. During his speech Prof. Dutta thanked RMA for organising such workshop and stressed upon proactive approach of the stake holders for a better environment management and opined for suitable waste heat utilisation in D.D.Kilns. He also suggested for adopting cleaner technology to minimise or eliminate the problem of unwanted

emissions. Finally, he assured of all possible help and cooperation to be extended by the State Board in order to solve the existing problem of air pollution from the refractory units.

Prof. (Dr.) Saikat Maitra, Principal, Government College of Engineering and Ceramic Technology, Kolkata, Sri B. P. Biyani, President, RMA and senior Board official were present amongst the other dignified guests and delivered valuable speeches.



Dr. Saikat Maitra stressed upon extensive research activities on control of air pollution from such units to arrive at an amicable acceptable system.

Sri Biyani briefly explained the functioning of the refractory units and emphasised on the necessity of installing technically and financially suitable air pollution control device considering the very limited emission status of such units.

Sri Chandan Ghose, Chief Engineer of West Bengal Pollution Control Board assured the refractory units about providing all possible technical help in order to meet the prevalent norms applicable to such units and requested the entrepreneurs to abide by the emission standards.

After the speeches an interactive session was also initiated, which was moderated by Sri Niranjana Lal Agarwalla, Environment Scientist.

Celebration of 'Bal Urja Chetana Diwas'



Calcutta Electric Supply Corporation Ltd. (CESC Ltd.) took an affirmative initiative to celebrate 'Bal Urja Chetana Diwas', which was conducted by the Centre for Environment Education (CEE) in collaboration with the West Bengal Pollution Control Board. The programme was organized on 29 August 2013 at the Auditorium Hall, Paribesh Bhawan, Bidhannagar, Kolkata. Smt. Reema Bannerjee from CEE welcomed all the guests present in the programme and explained about the project briefly. Prof. Binay K. Dutta, Chairman of the State Board delivered his keynote address and stressed upon students' awareness about efficient energy use

as well as reduction in energy wastage and also hoped that this awareness may percolate to their family members and simultaneously to the whole society. Sri Gautam Ray, ED (HR and Administration), CESC Ltd. and Sri Ashok Dinda, Member of Indian National Cricket Team were present in the programme. Prof. Sujay Basu, Director, School of Energy Studies, Jadavpur University delivered his valuable speech on efficient energy use and energy conservation. Students from South City International School, Sakhawat Memorial Govt. Girls' School etc. participated in the Elocution Competition and the winners were also awarded.



There was screening of an environmental film, namely, 'Melting Himalayas'. An exhibition was also arranged by CEE where various posters, photos, essays, models etc. were displayed.

Sabujayan 2013 at Red Road, Kolkata



Like previous year, 'Sabujayan Utsav 2013'- a mass plantation and saplings distribution programme was organized by the West Bengal Pollution Control Board with patronage from the Department of Environment and the Public Works, Government of West Bengal at Red Road, Kolkata on 17 August 2013. Dr. Sudarsan Ghosh Dastidar, Hon'ble Minister-in-charge, Department of Environment and Public Works, Govt. of West Bengal inaugurated the programme. Sri Subrata Bakshi, Hon'ble Member of Parliament of South Kolkata, Prof. Binay K. Dutta, Chairman and Sri Dilip Kr. Chakraborty, Member Secretary of West Bengal Pollution Control Board, Sri Karun Dey, Chief

Engineer, Public Works Department, Sri R. Mitra, General Manager, Steel Authority of India Ltd. and Sri P.K. Pradhan, Head of the Department of Biology, St. Lawrence School were present and delivered their valuable speeches during the programme. Various types of saplings were distributed among the dignitaries, students and others present in the programme. About 5000 students from the following NGC schools attended the programme :

1. Baranagar Rameswar High School
2. Sahapur Harendranath Vidyapith
3. Nabajatak Vidyabhaban for Girls'
4. Deshabandhu Vidyapith
5. Chak Para Sarada Devi Girls' High School
6. Sarada Prosad Institution for Girls
7. The Kidderpore Academy
8. Shri Aurobindo Balika Vidyalaya
9. Bagua High School
10. Belegkata Deshbandhu Girls' High School
11. Nakole High School
12. Gopabandhu Vidyalaya
13. Tollygunj Adarsha Vidyapith
14. Metropolitan Institution (Main)
15. St. Pauls School



- 16. Boror Siksha Satra High School
- 17. Niva Ananda Vidyalaya

Hands-on training Programme for Fly ash- brick manufacturing units



The State Board in association with Coal Ash Institute of India organized two hands-on training programmes for creating awareness about quality improvement of fly ash made bricks amongst the fly ash brick manufacturers. The programme was organised under a project on “Capacity Building for Efficient Utilization of Coal based Thermal Power Plants ash in the State of West Bengal” with support from FAU, DST, Govt. of India. The first training programme was organized on 20 August, 2013 at M/s. Shree Swastik Industry,

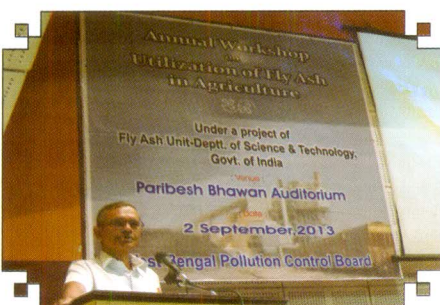
G.T Road, Bansra More, Raniganj. Approximately 45 representatives from fly ash brick manufacturing units attended the programme at Raniganj.

On 22 August, 2013 another hands-on training programme was organized at M/s. Green Bricks & Tiles, P.O.-Jaganathpur, Barporia, Barasat. Approximately 25 representatives of fly ash brick manufacturing units attended the programme at Barasat.



During both the training programmes, the experts gave hands-on training on fly ash brick manufacturing process, its quality and machineries. Senior officials from the Board participated in both the training programmes.

Annual Workshop on ‘Utilization of Fly Ash in Agriculture’



The State Board with support from Fly Ash Unit, DST, Govt. of India organised the annual workshop under a project on “Use of fly ash in agriculture : A way to improve soil infertility and productivity”—a sub-component of the main project, titled, “Capacity Building for efficient utilization of coal based thermal power plant ash in the State of West Bengal” on 2 September 2013 at the auditorium of ‘Paribesh Bhavan’. The main objective of the workshop was to promote awareness about use of fly ash as soil modifiers and sources of economical plant nutrients with or without organic manure, bio

fertilisers and chemical fertilisers. It has been realised by ash generators, researchers and academicians that there exists a strong potential of utilisation of fly ash in agriculture.

During the workshop, agricultural scientists, researchers and policy makers gathered together to share their experiences and explore new ideas with the objective to establish fruitful utilisation of fly ash. About 65 number of farmers from adjoining areas of thermal power plants of Burdwan, Hooghly,

Medinipur (East) and Bankura districts attended the programme. Apart from that, about 20 numbers of officials from Agriculture Department, GoWB and 30 numbers of students attended the programme. Officials from Thermal Power plants also attended the workshop. Eminent speakers from IIT-Kharagpur, Visva-Bharati University, ICAR, Dept. of Agriculture, GoWB and DVC were the resource persons for the workshop.



Prof. Binay K Dutta, Chairman, of the State Board inaugurated the workshop and welcomed all the participants.

Dr. G. N Chattopadhyay, Former Soil Scientist and Professor, Institute of Agriculture, Visva-Bharati University presented a lecture on “Use of vermicomposting biotechnology for recycling fly ash in agriculture” during his keynote address. During the Technical session, Dr. Pradip Sen, Managing Director, West Bengal State Seed Corporation Limited, Go WB discussed on “Use of coal ash in agriculture”. The next speaker of the session was Prof. B. C Ghosh, Professor, Department of Agriculture & Food Engineering IIT Kharagpur, who made a presentation on “Use of fly ash and organic wastes as source of nutrient supply in crop production.” Dr. S. K Das, Principal Scientist (Agriculture Chemistry), Central Inland Fisheries Research Institute, Kolkata Centre discussed on “Utilizing Fly Ash as a cheaper soil ameliorant for some problem soils” during the technical session. Shri Amitava Roychowdhury, Dy. Chief Engineer (EM & PC), DVC presented some showcase projects of DVC on utilisation of fly ash.

The workshop ended with panel discussion and concluding session.

Rally to promote environmental awareness



The State Board organized a rally in order to spread environmental awareness among the common people on 15 September 2013. The rally started at 3:30 pm from a well-known landmark, i.e., Salt Lake City Centre and ended at Punjab National Bank (PNB) bus-stop at Salt Lake.

Dr. Sudarsan Ghosh Dastidar, Hon'ble Minister-in-charge, Department of Environment and Public Works, Govt. of West Bengal inaugurated the rally. Dr. Kakoli Ghosh Dastidar, Hon'ble Member of Parliament, Govt. of India; Sri Chiranjit Chakraborty, Hon'ble MLA of Barasat, North 24 Paraganas district; Sri Sunil Mukherjee, Chairman of Barasat Municipality; Sri Rathin Ghosh, Chairman of Madhyamgram Municipality and Hon'ble MLA of Madhyamgram; Smt Krishna Chakraborty, Chairman of Bidhannagar

Municipality; Sri Sujit Bose, Hon'ble MLA of Bidhannagar and Sri Lakshmi Ratan Shukla, member of National Cricket team of India graced the programme by participating in the rally. Prof. Binay K. Dutta, Chairman and Dr. Subrat Mukherjee, Member Secretary of the State Board and other senior Board officials were also present.

‘No Horn’ at Silence Zone - A Campaign programme on Noise Pollution

Like previous years, a series of anti-noise and anti-car honking campaign programmes were organized by the West Bengal Pollution Control Board during the month of September 2013.

These programmes especially targeted the silence zone areas, like, hospitals, nursing homes, schools, colleges, institutions, religious places etc. and to make the participating students as well as the local people aware about not to honk in and around those areas to curb the harmful effects on human health caused due to noise pollution.

Students from various schools, Board officials and staff, public representatives and common people participated in all the campaign programmes.

Date	Venue
23-09-2013	Carmel School
24-09-2013	Shyambazar A. V. School
25-09-2013	Bidhannagar College St. Xaviers College, Park Street
27-09-2013	SSKM Hospital Bangur Hospital

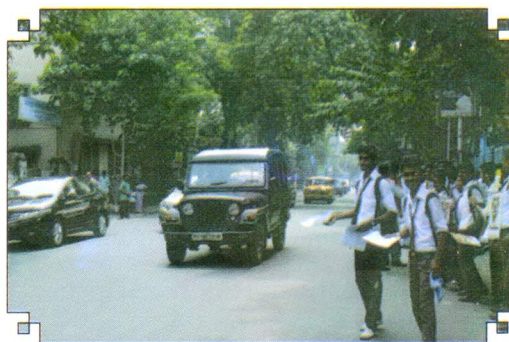
The campaigns were carried out in front of St. Xavier's College, Carmel School, Shyambazar A.V. School, Bidhannagar College, SSKM Hospital and Bangur Hospital. Students from St. Xavier's School, Carmel School, Shyambazar A.V. School, Labanhrad Vidyapith for Girls, Chakraberia High School, and Tollygunj Girls' High School participated in the campaigns.

At the beginning, the objective and modalities of the programme were briefed to the students and placards, leaflets on Noise Pollution were given to them. After that,

all the students actively performed on the road by holding up those placards, distributing leaflets to the drivers, local people etc. and explained to them the need to stop using car horns, especially in front of



Noise pollution campaign in front of St. Xaviers'College



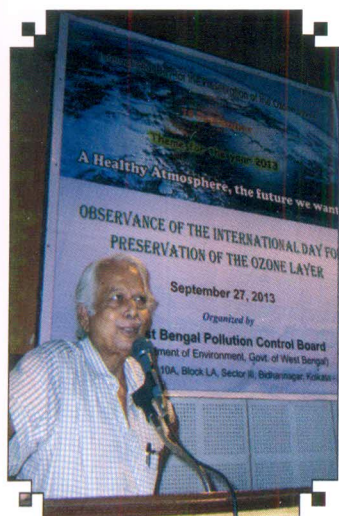
Noise pollution campaign in front SSKM Hospitals

schools and hospitals. The students showed great enthusiasm and enjoyed the whole programme. All the participants including the teachers expressed their experience of the day and realizing the importance of the Noise Pollution problem, they promised to participate in such programmes in future.

Observation of International Ozone Day 2013

The West Bengal Pollution Control Board (WBPCB) celebrated the International Ozone Day, 2013 on 27 September 2013 through a seminar held in the auditorium of West Bengal Pollution Control Board, Paribesh Bhawan, Bidhannagar, Kolkata.

Representatives from various industry associations like Indian Chamber of Commerce (ICC), Bengal Chamber of Commerce & Industry (BCCI), Federation of Small and Medium Industries (FOSMI) were invited in the programme to deliver speech on the occasion of celebration of the “International Ozone Day”. The theme of this year’s Ozone Day is “A Healthy Atmosphere, the future we want”.



Senior officials from the Environment Department, Govt. of West Bengal, West Bengal Pollution Control Board, Municipal Engineering Directorate, GoWB, West Bengal Biodiversity Board, KMDA and industries like CESC Limited, ITC Limited, other industry sectors like Small battery manufacturers etc. were invited to participate in this programme. Students from various schools like St. Paul’s School, Hare School and Chakraberia High school attended the programme.

Dr. Subrat Mukherjee, IFS, Member Secretary, WBPCB welcomed the distinguished guests and other participants present in the programme. In his address, he mentioned that the Montreal Protocol is the most successful International Treaty signed by various countries in the year 1987 to protect the thin Ozone layer in the Stratosphere. Sri Trilochan Singh, Additional Chief Secretary, Department of Environment, GoWB, in his address explained the significance of ‘International Day for the preservation of the Ozone Layer’-

to commemorate the signing of the Montreal Protocol. Prof. N. Bandopadhyay, Advisor, WBPCB in his speech elaborated the science of ozone depletion and its consequences on human health and the ecosystem to the participants, especially the school children. He explained about the UV radiations and its health impacts, about the Antarctic Ozone Hole, the significance of International Ozone Day and the international efforts initiated to combat these adverse effects primarily focusing his lecture on the school students. He further mentioned that successful implementation of phasing out of ODS would also help in curbing global warming as most of the ODS have high global warming potential. So a successful implementation of the Montreal Protocol would be a two way gain to the global community. Dr. Asim Kr. Bhattacharyya, representing Indian Chamber of Commerce and former Chief Coordinator, GTZ; National CTC Phase Out Plan; Ozone Cell; MoEF; Govt. of India, through his presentation explained nicely about the importance of Ozone Layer, causes of its depletion and its consequences, Montreal Protocol and Climate Change, impact on industry sectors due to solvent (ODS) phase out,





India's key milestones, policy actions, strategies and implications. He also mentioned about various alternative chemicals being used as CTC substituted chemicals. Prof. Sujoy Basu, representative of BCCI in his speech discussed about the importance of celebration of International Day for Preservation of Ozone layer, harmful impacts of UV radiation and the need for phasing out Ozone depleting substances, India's stand with respect to the Montreal Protocol and the policies and strategies adopted in phasing out ODS. Apart from that he also discussed about effect of the GHGs on the environment, the reports of the IPCC on the climate change etc.

Sri Goutam Roy, Vice President, FOSMI in his presentation discussed about the ozone layer, the harmful impacts of ozone layer depletion. All the participants, especially the school students interacted and exchanged ideas with the speakers and other distinguished participants of the seminar.

Sri S. K. Adhikari, Chief Engineer, WBPCB, thanked all the dignitaries, guests, the industry associations, Board officials, other participants especially school students for participating in the seminar.

News Flash!

Global warming blame on humans

India Stands To Gain In Green Talks As UN Panel Report Says CO₂ The Main Cause

There is more certainty than ever before that the earth is warming under “human influence”, said a report compiled by the UN’s Intergovernmental Panel on Climate Change (IPCC), warning that only “substantial and sustained reduction” of greenhouse gas emissions will limit the disaster of climate change.

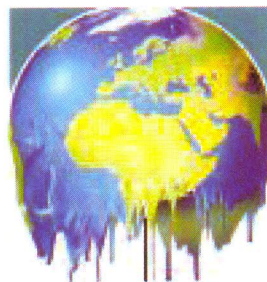
IPCC raised the likelihood of human activities causing global warming from “very likely” in its 2007 report to “extremely likely” — moving from being 90% sure to 95%.

Releasing the Summary for Policymakers, the first part of its fifth assessment report in Stockholm on Friday, IPCC scientists said global warming had resulted in an average sea level rise of 19cm since 1901 and an increase in surface temperature by 0.85 degree Celsius between 1880 and 2012.

As compared with the fourth assessment report released in 2007, the report tones down its temperature rise projections for the end of this century from the earlier range of 1.1-6.4 degree C to 0.3-4.8 degree C. But scientists associated with the IPCC said the two ranges were not comparable because they were based on very different sets of scenarios.

In what may help India’s position in climate negotiations, the report put the blame for warming on the atmospheric concentration of carbon dioxide more than gases such as methane, hydrofluorocarbons and black carbon.

The developed countries have been pressuring emerging nations to cut emissions of these short-lived gases while the latter have been demanding the west undertake more cuts in its CO₂ levels. The issue is sure to be raised when policymakers gather in Warsaw



HEAT IS ON,
MORE
 THAN EVER

FOR WORLD

- Global warming is unequivocal. Many observed changes since 1950s **unprecedented over millennia**
- 1983-2012 period likely the **warmest in 1,400 years**. Global temp rise may exceed **1.5°C** by 2100.
- ‘Extremely likely’ that **human influence** has been dominant cause of warming since 1950
- Oceans will continue to warm, **affecting circulation**
- Alarming retreat of Arctic sea ice, north snow cover **down 11.7% per decade**
- **0.19m rise in sea level** during 1901-2010. By 2100, rise likely to be 0.26-0.98m
- Frequency & duration of **heat waves to increase**

FOR INDIA

- Monsoon winds likely to weaken, **but rain will intensify**. Monsoon season likely to **lengthen**
- Extreme rain may become **more intense & frequent**

in November to discuss finer points of the report, which will be the basis of a new global climate deal in Paris in 2015.

“The carbon dioxide concentrations have increased by 40% since pre-industrialized times, primarily from fossil fuel emissions and secondarily from net land use change emission (such as deforestation),” the report said.

Stating that the atmospheric concentrations of CO₂, methane and nitrous oxide have increased to levels unprecedented in at least the last 800,000 years, the IPCC summary report statement said: “The largest contribution to total radiative forcing is caused by the increase in the atmospheric concentration of CO₂ since 1750.”

“Cumulative emissions of CO₂ will largely determine global mean surface warming by the late 21st century and beyond,” said the report, a compilation of the latest research from across the world.

The most optimistic of four warming scenarios in the report sees an average temperature rise of 1 degree C by 2100 over 2000 levels, ranging from 0.3 to 1.7 degrees C. This is the only scenario that can safely meet a UN target of 2 degree C.

The report also highlighted that each of the last three decades had been “successively warmer” at the earth’s surface than any preceding decade since 1850 in the northern hemisphere and 1983-2010 was likely the warmest 30-year period of the last 1400 years.

India's Monsoon Maladies

Over the sizzling north Indian plains this year, the summer rains arrived in mid-June, early by 13 days. They should not have. The respite quickly turned into a deadly rage, as flooding devastated the Himalayan region. In Uttarakhand, swollen rivers barreled down gorges and valleys, taking down entire towns and killing an estimated 1,000 people.

On Delhi's outskirts, sitting on a charpoy, farmer Ramesh Singh marvels at the early rains, which will nourish his paddy field. But statistics show the monsoon has been increasingly erratic - in about four out of every 10 years. Often, it has stalled mid-way, wringing farms dry. At times, short heavy spells have wreaked havoc, like the flash floods in Leh just three years ago.

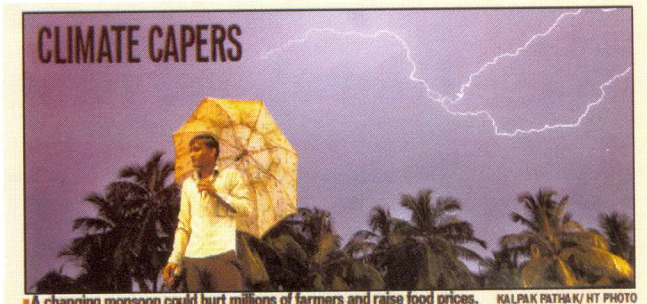
Forecasting the rains, which account for three-quarters of India's annual rainfall, is becoming tougher. Last year, six states had to declare droughts, despite predictions of a normal monsoon.

Although India is honing its prediction techniques, including joint Indo-American forecasting under a bilateral agreement, too little is understood about how pollution and rising temperatures are impacting the monsoon. But impacting they are, new research shows.

"Our studies show the Indian Ocean has significantly warmed in 50 years — by about 0.6°C. Monsoon has been declining in the Western Ghats, and interior areas such as Jharkhand and Chhattisgarh by about 6-7%," R Krishnan, a top climatologist at the premier Indian Institute of Tropical Meteorology, Pune, told HT.

Experts also point to a "significant rise" in monsoon breaks during a season.

"Although the frequency of extreme rainfall events has increased in certain parts of the country, it is the decreasing trend in moderate-to-heavy monsoon rainfall events that poses an enormous long-term concern for one of the most densely populated regions of the world that depends heavily on the monsoonal rains," the authors, including Krishnan, wrote in the journal *Climate Dynamics*.



■ A changing monsoon could hurt millions of farmers and raise food prices. KALPAK PATHAK/HT PHOTO

Key findings of recent studies of India's monsoons over past 50 years by top institutes in India and US:

- Indian Ocean warmer by 0.6 degrees
- Rainfall decline of 6-7% over Western Ghats, Chhattisgarh, Jharkhand
- Atmospheric aerosols linked with erratic rains
- Weak monsoon circulation has accelerated India Ocean warming, which has, in turn, weakened the monsoon further
- 1.7% drop in rice yields since 1960, study claims

Drought year	Monsoon (change from normal)	GDP growth rate	Summer harvest decline
1982-83	-14%	2.9%	-11.9%
1986-87	-13%	4.3%	-5.9%
1987-88	-19%	3.5%	-7%
2002-03	-19%	3.8%	-19%
2009-10	-22%	8.6%	-12%

Sources: Department of Agriculture, Economic Survey

A vicious cycle has also come to light. A weakening monsoon circulation has quickened the "warming of the equatorial India Ocean" and this warming, in turn, has contributed to a "further weakening of the monsoon". The new findings portend problems India isn't currently prepared to address. Experts say India would have to redouble efforts to make its farms climate-resilient.

A changing monsoon could raise food prices and risk livelihoods. Yet another published study, by Veerabhadran Ramanathan of the University of California, San Diego, notes that climate change has "evidently already negatively affected India's hundreds of millions of rice producers and consumers". India's rice yield would have been 1.7% higher if monsoon characteristics had not changed since 1960, the study states.

Less rainfall will cause farmers to use more groundwater, depleting it further. India has woken up to the challenges, setting up the National Initiative on Climate Resilient Agriculture.

Breakthroughs, such as identifying some heat-resistant wheat varieties, are too small to make any impact. For now, the achievement is limited to a timely recognition of the problem.

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