



ESDA CON 2019
Annual International Conference of ESDA
11 to 13 January, 2019 | Delhi (INDIA)



Supported by
Ministry of Environment,
Forest and Climate Change
Govt. of India



INTERNATIONAL CONFERENCE on **Global Environmental Challenges Human Health and Sustainable Development** with Global Environmental Exhibition

Organized by



Environment and Social
Development Association (ESDA) Delhi

In Association with



Center for the Study of Regional Development
Jawaharlal Nehru University, New Delhi

Conference Venue:

**The Convention Centre, JNU, New Delhi
11 to 13 January, 2019**

In International Partnership



Metropolitan University
San Juan, PR, USA



Dr. Bhim Rao Ambedkar College
University of Delhi



CSIR-National Environmental
Engineering Research Institute



Grass Roots Research &
Creation India (P) Ltd

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Specialty Hospital
Tahirpur, Delhi

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Event Manager



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on

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Grass Roots Research & Creation India (P) Ltd,
Metropolitan University, San Juan, PR, USA,
Dr. Bhim Rao Ambedkar College, University of Delhi
CSIR-National Environmental Engineering Research Institute
Rajiv Gandhi Super Speciality Hospital, Tahirpur, Delhi
Amity University, Noida, ECPFO Delhi and GSI Delhi**

Technical Schedule of the Conference

DAY – I: 11th January, 2019 (Friday)

**Registration: 09:00 AM – 10:30 AM
Breakfast 09:30 AM – 10:30 AM**

INAUGURAL SESSION (10:30 – 13:00) (Hall A-Auditorium-II)

Lunch: 13:00 – 14:00 PM

DAY – I: 11th January, 2019 (Friday) – Technical Sessions 14.00-15.30 PM

Time (Hrs.)	Hall A- Auditorium II		Time (Hrs.)	Hall B- Committee Hall	
14.00-15.30	Session 1: Plenary Session/Presentations Environmental Challenges, Community Resilience and Regional Development		14.00-15.30	Session 2: Plenary Session/Presentations Clean & Renewable Energy, Resource Management & Green GDP	
14.00-14.15	Session Chairman	Prof Kaushal Kumar Sharma Hony. Director, NRC, ICSSR, New Delhi & Professor, CSRD, JNU	14.00-14.15	Session Chairman	Dr. Anil K Garg CEO, Energy & Environment Foundation, New Delhi
14.15-14.30	Eminent Speaker 1	Prof Milap Punia CSRD, Jawaharlal Nehru University, New Delhi	14.15-14.30	Eminent Speaker 1	Dr. D. N. Singh Former Professor, IIT Delhi and President, SG Solar Power Energy, Greater Noida
14.30-14.45	Eminent Speaker 2	Prof. Shahab Fazal Department of Geography, Aligarh Muslim University, Aligarh, U.P.	14.30-14.45	Eminent Speaker 2	Dr Suneel Pandey, Director, Environment & Waste Management Division, TERI, Delhi
14.45-	Eminent	Prof. Seema Bathla	14.45-	Eminent	Dr. Indrani Roy Chaudhry

15.00	Speaker 3	CSRD, Jawaharlal Nehru University, New Delhi	15.00	Speaker 3	CSRD, Jawaharlal Nehru University, New Delhi
15.00-15.15	Eminent Speaker 4		15.00-15.15	Eminent Speaker 4	
15.15-15.30	Q & A	All	15.15-15.30	Q & A	All

Time (Hrs.)	Hall C- Lecture Hall				
14.00-15.30	Session 3: Oral Paper Presentation (Open ESDACON Award Session)				
	Chair: Prof. Jaigopal Sharma , Head, Department of Biotechnology, DTU, New Delhi				
	Co-Chair: Dr. Krishnendra Meena , CIPOD, SIS, Jawaharlal Nehru University, New Delhi				
	Co-Chair: Dr. Manoj Kumar , Assistant Professor, Department of Commerce, M.D.U. University, Rohtak				
	Time Slot: 5 Minutes to Each Presenter				
S.N.	Presenters/Authors		Topics		
1	<u>Rakesh Shahani</u> and Nikhil Nagpal		Co-integration between economic growth & energy consumption: Fresh Evidence from India and China		
2	<u>Kavita khatana</u> , Anujit Ghosal, Fahmina Zafar and Anjali Gupta		Green Synthesis of Quaternary Ammonium Salt of Triglyceride as a Potential Antimicrobial Agent		
3	Swati Verma		Ecological Footprint and Its Impact on the Environment		
4	Barun Kumar		Spiritual Dimension of Environmental Planning and Sustainable Development		
5	Nobina Gupto and Trishna Sarkar		Disappearing Wetlands		
6	<u>Monica Ahlawat</u> and Prashant Kumar		Impact of clean development mechanism (CDM) projects on sustainable development: a case study of Chamba district (Himachal Pradesh)		
7	<u>Geetanjali Sageena</u> , Nalini Mishra, Shreya Choudhary , ,Rakesh Roshanand Mallikarjun Shakarad		Improved Tolerance to Heavy Metals Stress through water budgeting in Adults of Drosophila melanogaster		
8	Aparna Tyagi		Assessment of Implementation of the Forest rights Act, 2006 in Sonbhadra District of Uttar Pradesh		
9	Papiya Mandal, Poonam Kumari and Rashmi Misra		Impact of Diwali Celebration on Urban Delhi- A Case Study		
10	Geeta Kumari		Sustainable Organic Farming: A Case Study of Dimapur District, Nagaland		
11	<u>Basit Gulzar</u> and Abdul Mujib		Comparative shotgun proteomic study of cotyledonary and maturation stages of somatic embryogenesis (a tool for rapid plant development and Propagation) in Catharanthus roseus (L.) G. Don.		
12	Nalin Kumar		Sound Pollution – Effect, Causes and Solutions		
13	Sarbeswar Padhan		Social Network and Student Migration to the National Capital Region		
14	Ritu Sharma		Impact of Diminishing Biodiversity in Urban Settlements		
15	Neelu Anand Jha		Non-invasive bioacoustics technique as a method of assessing biodiversity		
16	Sonam Paljor		An innovation of artificial glacier and ice stupa to mitigate water crisis in desert Himalayas Ladakh		
17	<u>Richa Bhardwaj</u> , Vigil Wilson, Anshu Gupta and J.K. Garg		Drains leading to development of heavy-metal resistance in Escherichia coli – A case study of River Yamuna, Delhi stretch, India		
18	<u>Sumit Pal</u> , Neelam Patel, Anushree Malik and D.K. Singh		Decentralized approach of waste water treatment and its effect on agriculture using micro irrigation technology		
	Peer Saffeullah, Tinu Anand Kain, Shahid Umar and Tariq Omar Siddiqi		Can identification of nitrogen efficient cultivars help in addressing the pressing challenge of sustainable agriculture?		

Parallel Technical Sessions

15.30-17.00 PM

Time (Hrs.)	Hall A- Auditorium II				
15.30-17.00	Session 4: Plenary Session/Presentations Natural Hazard and Disaster Management as Transdisciplinary Approach				
15.30-15.45	Session Chairperson	Prof. Amita Singh Chairperson, Special Centre for Disaster Research, JNU, New Delhi			

15.45-16.00	Eminent Speaker 1	Lt. General K J Singh Director, ECPFO Delhi and Advisor, Haryana Government
16.00-16.15	Eminent Speaker 2	Prof. Vinod Kumar Sharma Consultant (Former Senior Professor, Disaster Management) Indian Institute of Public Administration (IIPA) New Delhi
16.15-16.30	Eminent Speaker 3	Dr Jagbir Singh Associate Professor, Swami Shraddhanand College, University of Delhi
16.30-16.45	Eminent Speaker 4	Dr. Sreeja S. Nair Consultant – Elearning, UNISDR and Visiting Faculty, TERI University, New Delhi
16.45-17.00	Q & A	All

Time (Hrs.)	Hall B- Committee Hall	
15.30-17.00	Session 5: Oral Paper Presentation (Open ESDACON Award Session)	
	Chair: Prof. Tanu Jindal , Director, Amity Institute of Environmental Sciences, Amity University, Noida	
	Co-Chair: Dr. Chhavi Gupta , Deputy Medical Superintendent, Rajiv Gandhi Super Sp. Hospital, Delhi	
	Co-Chair: Dr. Anil Kumar Singh , Greek Chair, Jawaharlal Nehru University, New Delhi	
	Time Slot: 5 Minutes to Each Presenter	
S.N.	Presenters/Authors	Topics
1	Debasri Mukherjee	Environmental Enteropathy' (EE): A Critical Challenge in Indian Public Health
2	Deepali Chanu Sanasam	Role of Environment in Accessibility of Public Healthcare Facilities in the Hill and Valley districts of Northeastern Region of India
3	Suman Chakraborti and Dipendra Nath Das	Detecting timing of land conversion anomaly in response to urban growth: A time-series analysis
4	Gulzar Bin Rehman	Assessment of social vulnerability to floods in Srinagar city.”
5	Rakesh Rana	Sociology of Sustainable Development
6	Jitendra Kumar Nagar	Estimation of Indoor Air Quality due to Industrial Emission at Mohan Nagar Industrial Area of Ghaziabad City, India
7	Priyanka Chauhan	Effect of pH, temperature and concentration on the degradation of DDT
8	Prashansa Verma, Nisha Singh and Karnika Singh	Development of Vermicelli Containing Natural Sugar with Mahua and its Blend with Different Flour Fractions
9	<u>Tithi Mehrotra</u> and Rachana Singh	Toxicological evaluation of domestic effluent treated by strategically designed and electrochemically evaluated aboriginal bacterial consortium
10	<u>Ayushi Varshney</u> , Sumedha Mohan and Praveen Dahiya	Effect of fly ash amended soil on the growth parameters of Calendula officinalis
11	Raunak Dhanker, Archana Tiwari, Rinku Kaushik, Kawaljeet Singh and Shakshi Guleri	Larvicidal efficiency of diatom bioactive compounds against the zika and dengue vector Aedes aegypti : a novel strategy for public health
12	Somvir Bajar, Naresh Verma and Lucky	Assessment of impacts on soil quality in surrounding region of coal based thermal power plant
13	Anjali Yadav, Sandeep Kumar, Sujata and Somvir Bajar	Assessing heavy metal contamination in groundwater around stone quarrying in Mahendergarh, India
14	Narasimhamurthy K, Soumya K, Srinivas C and Niranjana SR	Induction of systemic resistance in tomato by leaf extracts of Amomum nilgircum against Ralstonia solanacearum.
15	Priyanka Saxena, Sourabh Kumar and S.K. Goyal	Green Good Deeds: A Study
16	Vinaykumar N M, Riaz Mahood and V. Krishna	In-vitro antioxidant activity and phytochemical screening of aqueous stem bark extract of Gardenia gummifera Linn
17	Thirumala.S,	Analysis of heavy metals concentration in ground water quality from harihar taluk davangere district, Karnataka, India
18	Nagendra Naik K, Yogendra K and Kittappa M Mahadevan	Synthesis and application of BaO nano-particles for the Photocatalytic decolourization of Methyl violet10B
19	Dr Ravindra Singh	SDGs' perspective on Ensuring Health for All

20	Dr. Tulika Sanadhya	Health Risks and Vulnerability of the Community near Bhalaswa Landfill site in Delhi
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Time (Hrs.)	Hall C- Lecture Hall	
15.30-17.00	Session 6: Oral Paper Presentation (Open ESDACON Award Session)	
	Chair: Dr. Dhiraj Kumar Singh, Managing Director, GRC India, Noida	
	Co-Chair: Dr. Kishor Kumar, Associate Professor, K.M. Govt. Girls PG College, Badalpur, G.B. Nagar	
	Co-Chair: Mr. Bhoo Tyagi, President, Prakriti Pariwar & Vishwa Mitra Pariwar, Delhi	
	Time Slot: 5 Minutes to Each Presenter	
S.N.	Presenters/Authors	Topics
1	Meera Mehta	Green Banking: A Commitment for the future
2	Kumar Manish	Origin and evolution of the Himalayan flora
3	Rakesh Shahani and Keshav Sharma	Economic Growth and Mineral Depletion in India: An Empirical Investigation
4	Sakshi Vasudeva	CSR and environmental initiatives in India: Benefits and challenges
5	Arvind Kumar Yadav and Salil Batabyal	River Conservation and Rejuvenation in India: An Overview of River Ganga
6	Vikas Gupta and Abhinav Chaudhary	A Study on the Corporate Social Responsibility Spending of Indian Companies
7	Priyanka Tiwari	Managing Harvests Of Fuelwood And Fodder: Major Drivers Of Forest Degradation In Sariska Tiger Reserve, Rajasthan
8	Poonam Nandal, Jai Gopal Sharma and Anil Kr Mavi	Environmental challenges- Human health linkages and Alternative Solutions Pulmonary Diseases
9	Soumitra Maiti, Neeraj Jain, Vivek Sood and A. K. Minocha	High Draught Technology for Pollution Control in Brick Kiln
10	C. M. Meena	Environment Pollution, hazard and Disaster and Challenges in South Asia: An Overview
11	Rajbala Gauttam	Causal Dynamics between CO2 Emissions and GDP per Capita : A Comparative Analysis of Developed and Developing Economies
12	Upendra Kumar	Sustainable development and it's importance in the field of education
13	Renu Mann	Environmental Policies in Russia-EU Relations
14	Suvamoy Pramanik and Milap Punia	Impacts of Urban Form on Heat-Related Health Risk: A Geo-Statistical Study in Dense Urban Landscape of Delhi, India
15	Reema Tiwari and U. C. Kulshrestha	Characterizing the profile of reactive nitrogen chemistry in the urban atmosphere of NCR, India.
16	Priya Tomar and Pallavi Mittal	Decolourization of black liquor through Pseudomonas aeruginosa and Aspergillus Niger and enhance the effect of carbon and nitrogen source
17	Parveen Kumar	Sustainable Management of Crop Waste to Prevent in Field Burning
18	Narendra Kumar	Fumigant efficacy of Tagetes patula L. Essential Oil in preservation of wheat grains
19	Tanushree Singh	Moroccan Diaspora and Climate Change: The way forward
20	Poonam Garg, Aayushi Pundir, Priyanka Yadav and P.K. Patnala	Sorption of heavy metals from aqueous solutions using peanut skins as low cost adsorbents

High Tea: 17.00-17.30 PM

DAY – 2ND: 12th January, 2019 (Saturday)

Registration:
Tea

09:00 AM – 10:00 AM
09:00 AM – 10:00 AM

Parallel Technical Sessions

10.00-11.30 AM

Time (Hrs.)	Hall A- Auditorium II		Time (Hrs.)	Hall B- Committee Hall	
10.00-11.30	Session 7: Plenary Session/Presentation Municipal Solid Waste: Rules, Management Problems and Solutions		10.00-11.30	Session 8: Plenary Session/Presentation Urban Development, City and the Region/ Smart Cities & Green Buildings	
10.00-10.15	Session Chairperson	Ms. Sanchita Jindal Former Advisor, Ministry of Environment Forest & Climate Change, New Delhi	10.00-10.15	Session Chairman	Prof. D. N. Das CSRD, Jawaharlal Nehru University, New Delhi
10.15-10.30	Eminent Speaker 1	Mr. Deepak Agarwal Sr. Vice President IL&FS Environmental Infrastructure & Services Limited, New Delhi	10.15-10.30	Eminent Speaker 1	Dr Rohit Azad CSEP, Jawaharlal Nehru University, New Delhi
10.30-10.45	Eminent Speaker 2	Prof. O. P. Agrawal Former Vice Chancellor, Jiwaji University, Gwalior, M.P.	10.30-10.45	Eminent Speaker 2	Dr. Bikramaditya Choudhary CSRD, Jawaharlal Nehru University, New Delhi
10.45-11.00	Eminent Speaker 3	Mr. Pradeep Khandelwal, Chief Engineer, East Delhi Municipal Corporation, Delhi	10.45-11.00	Eminent Speaker 3	Dr. Pritpal Randhawa Assistant Professor, Urban Studies, School of Global Affairs, Ambedkar University Delhi
11.00-11.15	Eminent Speaker 4	Mr. Atul Goyal, President, URJA, Delhi	11.00-11.15	Eminent Speaker 4	Mr. Avinash Kumar Principal Consultant-Asia Pacific, ERM, Gurgaon
11.15-11.30	Q & A	All	11.15-11.30	Q & A	All

Hall C- Lecture Hall

Time (Hrs.)	Session 9: Oral Paper Presentation (Open ESDACON Award Session)
10.00-11.30	
	Chair: Dr. S. K. Tyagi , Former Additional Director, CPCB, Delhi
	Co-Chair: Dr. S. S. Chawla , Associate Professor, Dr. Bhim Rao Ambedkar College, DU
	Co-Chair: Dr. Sanjay Kumar , Zakir Hussain Delhi College (Evening), University of Delhi

Time Slot: 5 Minutes to Each Presenter

S.N.	Presenters/Authors	Topics
1	Hanumanthappa Makari	Isolation of bacteriophages against phytopathogenic of Ralstonia solanacearum: A natural antimicrobial agent for plant protection
2	Aparna Varma	Hinduism and environment
3	Sunita Meena	The Caspian Sea: Environmental Challenges for the Littoral States
4	Sarda Prasad and Bhaswati Das	Agrarian Community and Food Security in India: Opportunity and Challenges
5	Yugal Jha	Sacred groves- A plea for revival and restoration for the green economy of Jharkhand
6	Jhilirani Mohanta and Soumen Dey	Removal of Malachite Green Dye from Water Using Alkali Activated Coconut Fiber
7	Karnika Singh, Nisha Singh, Prashansa Verma and Ashish	Development of vegetable protein-based biopolymer food packaging
8	Juhi Priyanka Horo	The dynamics of Gurugram's peri-urban interface: The juxtaposition of 'becoming urban' and 'preserving community resilience'
9	Asha Pandey	Making Smart Cities into Smart Sustainable Cities
10	Jhalak Sain	Edible Crockery
11	Sneha Kumari	Effect of grass and legumes as pioneer species in reclamation of coal mine dump

12	Dipita Ghosh	Biochar as an ammendment for coal mine spoil: A review
13	Vaijinath A. Verma and Rajkumar S Meti	Green synthesis and characterization of silver and gold nanoparticles using seed extract of Vernonia anthelmintica and evaluation of its anti-microbial activity
14	Kumari Sunita, Sadaf, Mohammad Aasif Khan and Syed Akhtar Husain	Evaluation of cytotoxic potential of Mimusops elengi columnar purified Bark extract on HeLa Cancer Cell Line
15	Devidutta Maurya	Aerosol and Atmosphere
16	Shobha Sondhia, Rashmi Patel and P.K. Singh	Use of paraquat as a desiccant for early maturity of chickpea and residues dynamics
17	Hemant Kumar	Challenges for crop pattern and soil erosion process in changing environment of degraded habitat of Chambal region.
18	Deependra Sharma and Harinder Pal	Eco-Conciousness among Consumers towards Environmental Sustainable Apparels: A Case Study in Indian Context

High Tea: 11.30-12.00 PM

Parallel Technical Sessions			12.00-13.30 PM		
Time (Hrs.)	Hall A- Auditorium II		Time (Hrs.)	Hall B- Committee Hall	
12.00-13.30	Session 10: Plenary Session/Presentations Water Pollution, Crises, Conflict and Solutions-Including River Conservation and Rejuvenation		12.00-13.30	Session 11: Plenary Session/Presentations Sustainable Agriculture, Food and Biotechnology/ Biodiversity Conservation, Ecosystem Services & Livelihood	
12.00-12.15	Session Chairperson	Er. Paritosh Tyagi Former Chairman, Central Pollution Control Board, Delhi	12.00-12.15	Session Chairman	Prof. C. K. Varshney , Professor Emeritus, JNU, Delhi Distinguished Adjunct Professor (AIT, Bangkok)
12.15-12.30	Eminent Speaker 1	Prof. S. P. Singh Department of Humanities and Social Sciences, IIT, Roorkee, Uttarakhand	12.15-12.30	Eminent Speaker 1	Prof. N. P. Melkania , Dean, Gautam Buddha University, Greater Noida
12.30-12.45	Eminent Speaker 2	Prof. Sirajuddin Ahmed Department of Civil Engineering, Jamia Millia Islamia, Delhi	12.30-12.45	Eminent Speaker 2	Prof. Tanu Jindal Director, Amity Institute of Environmental Sciences, Amity University, Noida
12.45-13.00	Eminent Speaker 3	Dr. Ajay Kumar Associate Professor, Metropolitan University, San Juan, PR, USA	12.45-13.00	Eminent Speaker 3	Prof. G. S. Solanki Head, Department of Zoology Mizoram University
13.00-13.15	Eminent Speaker 4	Er. J. K. Bassin , Former Head, CSIR-NEERI, Delhi Zonal Centre, Delhi	13.00-13.15	Eminent Speaker 4	Dr. Elumalai Kannan , Associate Professor, CSRD, Jawaharlal Nehru University, New Delhi
13.15-13.30	Q & A	All	13.15-13.30	Q & A	Dr. Neelesh Kapoor Assistant Professor Sardar Vallabhbhai Patel University of Agriculture & Technology, Meerut, U.P

Time (Hrs.)	Hall C- Lecture Hall	
12.00-13.30	Session 12: Oral Paper Presentation (Open ESDACON Award Session)	
	Chair: Prof. Zaved Ahmed, President, National Environmental Science Academy, Delhi	
	Co-Chair: Dr Rakesh Rana, President, Environment and Social Development Association, Delhi	
	Co-Chair: Dr. Esha Jain	
Time Slot: 5 Minutes to Each Presenter		
S.N.	Presenters/Authors	Topics
1	Sumedha N Sahu, S N Naik, I baitharu, J K Sahu and E kariali	Implication of Non-Timber Forest Products towards Rural health and nutrition: An Overview
2	Rishi Kumar Saxena	Bacterial and Enzymatic Assays for Toxicity Testing in Waste

		Water Treatment Plants
3	<u>Shalini Ananda</u> , Aarushi Sharma, Shilpi Nagar, Jyoti Lamba, Ajay Kumar Shaw, S Mary Celina and Pramod Kumar Raia	Remediation of 2,4,6-trinitrotoluene (TNT) contaminated effluent using alkaline hydrolysis
4	<u>Nitika Singh</u> and Bechan Sharma	An invitro studies on the impact of Citrus lemon juice on the kinetic characteristics of acetylcholine esterase against lead and cartap induced perturbations
5	<u>Risha Ganguly</u> and Abhay K. Pandey	Hepatoprotective effect of cinnamaldehyde in food color induced toxicity in rat model
6	Jyoti Verma	Bottom-biota of a man-made wetland on River Chandraprabha: A preliminary survey of the Reservoir and downstream Sanctuary
7	<u>Sofi Javed Hussain</u> , Asim Masood, Naser A. Anjum and Nafees A. Khan	Salicylic acid induced antioxidant capacity helps protect photosynthetic machinery of Vigna radiata under NaCl stress
8	<u>Zeenat Mushtaq</u> , Shahla Faizan and Sayyada Bushra	Role of Arbuscular Mycorrhizal Fungi (AMF) in alleviation of salt stress in chick pea (Cicer arietinum L.)
9	<u>Quratul-ain</u> , Waseem Mushtaq and M.B. Siddiqui	Allelopathic impact of Leaf Aqueous Extract (LAE) of Utricularia dioica L. on germination, growth and physiological parameters of some weeds and crops.
10	<u>Aarifa Nabi</u> and M. Naeem	Alterations in Growth, Photosynthetic Pigments, Antioxidant Machinery and Essential Oil Content of Menthol Mint (Mentha arvensis L.) under Nickel Exposure
11	<u>Dinesh Kumar Meena</u> , Pradeepen Rai and Pratul Hazarika	Importance of Soil Seed Bank in Conservation of Species: A case study of Rain Forest Research Institute, Campus
12	Manjunatha K S, Ramesh C K and H K Makari	Eleusine coracana seed extract mediated synthesis of colloidal silver nanoparticles and study of its antimicrobial activity
13	K. Harish Kumar and S. Manjunatha	Distribution and Periodicity of Diatoms in Bhadra Reservoir, Karnataka, With respect to Sustainable development
14	Haseena Sheikh and Makari.H.K	Green synthesis of silver nanoparticles and its biological activity using Muntingiacalabura fruit extract
15	Mamta Chaudhary	Effect of global warming on the environment
16	Dharmendra Singh and Raghuwanshi	Ethanol is a renewable source of energy for sustainable development in India.
17	Rahul Kumar	Industrial development with the sustainability of nature and natural resources
18	Poornima D	Chemical profile and free radical scavenging activity of Adenocalymma alliceae Miser.

Lunch: 13:30 – 14:30 PM

Parallel Technical Sessions

14.30-16.30 PM

Time (Hrs.)	Hall A- Auditorium II		Time (Hrs.)	Hall B- Committee Hall	
14.30-16.30	Session 13: Panel Discussions/Presentations Sustainable Development Goals and Human Wellbeing / Carrying Capacity based Planning for Sustainable Development		14.30-16.30	Session 14: Panel Discussion/Presentations Citizen Environmental Activism, Communication, Evidence based outcomes and Policy Intervention	
14.30-14.45	Session Chairman	Dr. J. S. Kamyotra , Former Member Secretary, CPCB, Delhi	14.30-14.45	Session Chairman	Dr. Markandey Rai , Senior Advisor, UN-Habitat & President, GPDSA
14.45-15.00	Eminent Speaker 1	Dr. Anil Kumar Director, Department of Environment, Government of NCT, Delhi	14.45-15.00	Eminent Speaker 1	Prof. Ritu Priya Mehrotra , Centre of Social Medicine and Community Health, School of Social Sciences, JNU, New Delhi
15.00-15.15	Eminent Speaker 2	Dr. G. K. Arora , Principal, Dr. Bhim Rao Ambedkar College, University of Delhi	15.00-15.15	Eminent Speaker 2	Dr. Ratan Lal Hindu College, University of Delhi
15.15-	Eminent	Dr. S. K. Goyal	15.15-	Eminent	Mr. Sanjay Kumar Swami ,

15.30	Speaker 3	Head, CSIR-NEERI, DZC, Delhi	15.30	Speaker 3	Environmental Activist & Co-Coordinator, SSUN, Delhi
15.30-15.45	Eminent Speaker 4	Dr J. K. Moitra Managing Director, EMTRC Consultants Pvt. Ltd, Ghaziabad	15.30-15.45	Eminent Speaker 4	Dr. Piyush Jain, President, Academy of Family Physicians of India (UP Chapter), Agra, U.P.
15.45-16.00	Eminent Speaker 5	Prof. A. L. Aggarwal Professor (Emeritus), Amity University, Noida	15.45-16.00	Eminent Speaker 5	Mr. Ranveer Tanwar Environment Activist, Greater Noida
16.00-16.15	Eminent Speaker 6	Prof. Madan Lal Delhi School of Economics, University of Delhi	16.00-16.15	Eminent Speaker 6	Mr. Sanjay Kumar Mishra Editor, Enviro Annotations Newspaper, Delhi
16.15-16.30	Q & A	All	16.15-16.30	Q & A	All

Time (Hrs.)	Hall C- Lecture Hall	
14.30-16.30	Session 15: Oral Paper Presentation (Open ESDACON Award Session)	
	Chair: Mr. Rakesh Agarwal , Executive Chairman, ECPFO Delhi	
	Co-Chair: Dr. Ravindra Singh , Assistant Professor, Dr. Bhim Rao Ambedkar College, University of Delhi	
	Co-Chair: Dr. Pallavi Mittal , Assistant Professor, ITS Para Medical College, Ghaziabad, U.P.	
	Time Slot: 5 Minutes to Each Presenter	
S.N.	Presenters/Authors	Topics
1	Anjali Dewan	Climate Change, Water and Food Security - Addressing the Challenges
2	Anamika Poonia	Land use land cover change and associated change in groundwater level: A case study of two semi-arid districts of India
3	Salem Ahmad Yatoo, Paulami Sahu and Manik H. Kalubarme	Multi-Temporal Remote Sensing Data Analysis for Urban Change Monitoring of Ahmedabad City, Gujarat, India
4	Luna Moni Das	Floods as a Hindrance to Regional Development along the Northern Bank of the Upper Brahmaputra River
5	Gayatri Chawda and Takehiko Murayama	Content Analysis of Environmental Impact Assessment (EIA) Reports in India
6	Jasheena. C.J. and Ashutosh Kumar	Packaged Sustainable Food: An Indian Perspective
7	Pradeep Kumar and A. K. Vishwakarma	Bio-active components/phytochemicals and their use for control of fasciola larva infestation in intermediate host snail
8	Hiranmoy Roy and Dr. Narendranath Dalei	Empirical Relation between Energy Use and Human Development: Evidence from BRICS Nations
9	Biswajit Patra, Ramovatar Meena and Surya Narayan Pradhan	Energy Dispersive X-ray Fluorescence Analysis to Determine Trace Metal Concentration in Soils and cultivated Piper betle L. leaves of Coastal Odisha
10	Sujata Das, Shalini Singh, Oindri Majumder, Reema Verma and Shipla Nandi	Isolation and screening for laccase production by diversified species of basidiomycetes from in and around Punjab and Himachal Pradesh
11	Vishwas V. and Singh T	A field observation on impact of shrinking wetlands on winter visitor and resident avifauna
12	Swatantra Kumar Dubey	Assessment of Water yield in the Banas River Basin using SWAT Model
13	Mary Kasana V	Effect of water pollution on Pharmacognostic properties of Hydrilla Verticillata (L.f.) Royle
14	K. Josephraj	Environmental degradation and health issues
15	Mamata Das	Impacts of International Trade on Natural Environmental condition - A Conceptual Report
16	Giridhari Pal, Rashita Makker, Eshita Sharma, Prof. Jyotirmoyee Jena and Tapan Behl	Organic Farming in India: Way towards sustainable agriculture
17	Rita Sarkar	Popular Culture and Ecocriticism: Raising Environmental Concerns through Comics

18	Suvendu Roy	Problems in Riverine Connectivity through Transport Infrastructure: Case Study from Eastern India
19	Joyeeta Saha	Patterns of consumption of tribal households: A study of Santals
20	<u>Devendra Swaroop</u> , Alka Katiyar and R.K. Singh	Indigenous Cattle Must for Zero Budget Agriculture.
21	Alok Kumar Choubey and Gayatri Rai	Temporal analysis and characteristics of urban land use change and urban planning: A case study of Lucknow
22	<u>Niraj Kumari</u> and Kaushalendra Prakash Goswami	Urban Environment and Land Use Change Detection in Varanasi City Using Remote Sensing and GIS
23	Rajkumar S Meti and Shivayogeshwar E. Neelagund	Influence of pH and Temperature on Biological Synthesis of Gold and Silver Nanoparticles from Acacia Sinuata plant extract
24	Anjali.M. and Rathna Kumari B M.	Effect of Panchagavya on plant growth
25	Soumya. K, Narasimha Murthy K and Sharmila. T	Investigation of optimum conditions for the production of a cytotoxic pigment metabolite from Fusarium chlamydosporum

High Tea: 16.30-17.00 PM

DAY –3rd: 13th January, 2019 (Sunday)

Registration:
Tea

09:00 AM – 10:00 AM
09:00 AM – 10:00 AM

Parallel Technical Sessions

10.00-11.30 AM

Time (Hrs.)	Hall A- Auditorium II		Time (Hrs.)	Hall B- Committee Hall	
10.00-11.30	Session 16: Panel Discussions/Presentations Air Pollution & Smog in Metro Cities: Sources, Trends, Air Quality Monitoring and Innovative Solutions		10.00-11.30	Session 17: Plenary Session/Presentations Climate Change, Clean Development Mechanism (CDM) and International Community efforts to mitigate & reduce GHGs	
10.00-10.15	Session Chairperson	Hon'ble Justice Mr. Swatanter Kumar , Former Chairman, NGT Former Judge, Supreme Court of India	10.00-10.15	Session Chairman	Prof. P. K Joshi School of Environmental Studies, Jawaharlal Nehru University, New Delhi
10.15-10.30	Eminent Speaker 1	Dr. K. J. Ramesh Director General of Meteorology, India Meteorological Department Government of India, Lodi Road, New Delhi	10.15-10.30	Eminent Speaker 1	Dr. Anuradha Shukla Chief Scientist, CSIR-Central Road Research Institute, New Delhi
10.30-10.45	Eminent Speaker 2	Prof. B. R. Gurjar Department of Civil Engineering, IIT Roorkee, U. K.	10.30-10.45	Eminent Speaker 2	Dr. R. B. Lal Additional Director, Ministry of Environment Forest & Climate Change, New Delhi
10.45-11.00	Eminent Speaker 3	Prof. Umesh Kulshrestha Director, Transdisciplinary Research Cluster, SES, JNU Delhi	10.45-11.00	Eminent Speaker 3	Dr. Kaviraj Singh, Managing Director, Earthhood Services Pvt. Ltd., Gurgaon
11.00-11.15	Eminent Speaker 4	Dr Rajendra Prasad Managing Director, Ecotech Pvt. Ltd., Greater Noida, U.P.	11.00-11.15	Eminent Speaker 4	
11.15-11.30	Q & A		11.15-11.30	Q & A	All

Time (Hrs.)	Hall C- Lecture Hall	
10.00-11.30	Session 18: Oral Paper Presentation (Open ESDACON Award Session)	
	Chair: Mr. Swadesh Kumar , President, Green Society of India & CEO, Indian Exhibition Services	
	Co-Chair: Dr. Neera Rao, Principal , Harcourt Battler Sr. Secondary School, New Delhi	
	Co-Chair: Dr. Hemlata Pant , Assistant Professor, CMP P G College, Allahabad, U. P.	
	Time Slot: 5 Minutes to Each Presenter	
S.N.	Presenters/Authors	Topics
1	Deep Chand Chaurasiya, Usha Tripathi, Noor Afshan Khan and S.K.Goyal	Effect of Temperature on Trihalomethane Formation in Treated Water and Health Effect
2	Kritika Joshi and Arpita Banerjee	Sustainable Approach towards Sanitation in India: Challenges in Accessibility, Economy and Design
3	Koshal Kumar, Chandra Bhanu Kotnala and Anita Rawat Rana	Aquatic Biodiversity Study in Rawasan stream: An Important tributary of River Ganga in Garhwal, Central Himalaya, India
4	Sumbul Qureshi and Yogendra Kumar	Utilization of land and water resources for crop planning in Dhora command
5	Nirmala Taragi and Poonam Rautela	Analysis of the impact of Land use/cover change on the environment
6	Nishesh Sharma	Evaluation of metal tolerance of selected Indian varieties of Triticum aestivum. Analysis of presence of heavy metal on growth of selected varieties of Triticum aestivum.
7	<u>V. Bahuguna</u> , A. K. Chowdhary, R.	Molecular diversity of family Bufonidae (Amphibia: Anura) from

	Maikhuri, G. S. Jhadwan and S.N. Bahuguna	Uttarakhand, Western Himalaya			
8	<u>Poonam Kumari Rajauria</u>		A study of attitude of senior secondary students towards environmental pollution		
9	Yashi Tiwari		Study of legislative framework for disaster management in india and related public policy & plans of Madhya Pradesh		
10	Bhawana Joshi		Nano-science and nanotechnology for environmental issues and applications		
11	Renu Saraswat		Climate change Indian perspective		
12	Nandkumar Kuklare		Environmental Pollution in India		
13	Gaikwad V.B		Strategies for Conservation of Indian Biodiversity		
14	Anita Sharma		Effects of indoor air pollution on human health		
15	Vishrut Chaudhary and Seema, B.S. Yadav		Theoretical study of waste of dye based industry of substituted aniline in view of energy and structure		
16	A.K. Shukla, Archana Pandey and Sunanda das		Hydration studies of blended cement		
17	Deeksha Yajurvedi		A review on removal of BPA using phytomaterial based adsorbents		
18	Vibha Sharma		Challenges to Human Health-Benefits of Organic Farming		
19	Sharmistha Singh, Astha Dwivedi and Poonam C Mittal		Comparative study of Biochemical Measures between Baseline and Postprandial non- diseased volunteers with respect to carbohydrate diet		
20	Kirti Raje Singh		Role of Algae in water pollution		
High Tea: 11.30-12.00 PM					
Parallel Technical Sessions12.00-13.30 PM					
Time (Hrs.)	Hall A- Auditorium II		Time (Hrs.)	Hall B- Committee Hall	
12.00-13.30	Session 19: Plenary Session/Presentations Environmental Challenges and Human Health Hazards- Air Pollution and Human Health		12.00-13.30	Session 20: Plenary Session/Presentations Environment change-Industry linkages, impact on Health, & Environment/ Technological Innovation in EHS measures, ETP and STP	
12.00-12.15	Session Chairperson	Prof. Raj Kumar Director, Vallabhbhai Patel Chest Institute, University of Delhi	12.00-12.15	Session Chairman	Mr. Bijan Mishra, Sr. Vice President-Environment, Reliance Power Ltd., Noida
12.15-12.30	Eminent Speaker 1	Dr. S K Rasanias, Director Professor & Head, Department of Community Medicine, Lady Hardinge Medical College, Delhi	12.15-12.30	Eminent Speaker 1	Er. Umesh Chandra, Head, HSE Head– HSE, RPMG, NMD, Reliance Industries Limited, Mumbai
12.30-12.45	Eminent Speaker 2	Dr. Rajiv Adhana, Senior ENT Surgeon, Adhana ENT Hospital, Delhi	12.30-12.45	Eminent Speaker 2	Mr. Rajnish Mehrotra Head, Environment, Forest and Wildlife, Essel Infrastructures, Noida
12.45-13.00	Eminent Speaker 3	Dr. Awanindra Head, Department of Blood Bank & Pathology, Swami Daya Nand Hospital, Dilshad Garden, Delhi	12.45-13.00	Eminent Speaker 3	Mr. Devender Gill General Manager - Safety, Delhi Metro Rail Corporation, New Delhi
13.00-13.15	Eminent Speaker 4	Dr. Vikas Dogra Assistant Professor, School of Pulmonology, RGSSH, Tahirpur, Delhi	13.00-13.15	Eminent Speaker 4	Mr. Lalit Sharma, Technical Advisor, SEIP, GIZ, Ministry of Env. Forest & Climate Change, New Delhi
13.15-13.30	Q & A	All	13.15-13.30	Q & A	Dr Sunali Khanna President, Asian Academy of Oral and Maxillofacial Radiology Nair Hospital Dental College, Mumbai

Time (Hrs.)	Hall C- Lecture Hall	
12.00-13.30	Session 21: Oral Paper Presentation (Open ESDACON Award Session)	
	Chair: Prof. Ram Deo Doi , Former Head, Department of Geography, University of Rajasthan	
	Co-Chair: Major Roop Singh Nagar , President Awardee & National Executive Officer, ESDA Delhi	
	Co-Chair: Dr. Ram Chandra Singh , Assistant Professor, SMP Government Girls PG College, Meerut	
Time Slot: 6 Minutes to Each Presenter		
S.N.	Presenters/Authors	Topics
1	Bheemanagouda O. Patil and S. B. Hosamani	National horticulture mission (NHM) scheme in Karnataka- an economic analysis
2	N. P. Melkania and Monali Varun	Marching from lifestyle environmentalism to livelihood environmentalism: Some perspectives
3	Hemlata Pant and Manoj Kumar Singh	Assessment of Trichoderma viride and neem cake alone and in combination on root- gall nematode in Okra
4	Arti Gupta	Environmental benign Chemistry
5	Sushma Sharma	Impact of Environment and Growth Hormones on Seed Germination and Seedling Performance in Dianthus latifolius wild.
6	Kushagra P. Gabhane, Sadhana Rayalu and Shilpa Kumari	Performance enhancement of multipurpose solar steam generator by using different novel techniques
7	Pranav Goel	Groundwater Management for Confined Aquifers
8	Tanuja Chandrika	Conservational aspect and protection of traditional ecological knowledge of indigenous Indian communities-A
9	Ramesh D. Rathod	Thermal Fly ash: A Notable Impacts and Significance in Parli-V. Dist. Beed (MS)
10	Jyoti Sharma, Gaurav Pant,Rashmi Tripathi and Anuja mishra	Assessment of toxic metal pollutant in Yamuna ecosystem
11	Anuja Mishra, Gaurav Pant,Surya Pratap Singh and Jyoti Sharma	Screening of isolated bacterial strains form refinery effluent for oil degradation
12	Kamlesh Kumar	Socio, Eco, Ethical impact of Nanotechnology
13	Priyanka Kumari Panchal	Antibacterial effects of underground part of medicinal plant (Barleria prionitis) with ethanol extract on pathogenic strains”
14	Anchal Verma	INDIAN ENVIRONMENTAL LAWS AND POLICIES
15	S. Abirami	Effects of organochlorine compounds on environment due to bleaching and modifications made in paper technology to overcome them
16	Deepti Singh and N. L. Sharma	Assessment of Chromium environment pollution in water of Hindon River, India: Impact of industrial effluents Discharges.
17	Archana Singh	Green synthesis of newer heterocyclic compounds as anticonvulsant agents
18	Bangkim Kshetrimayum and Ronita Bardhan	Well-being of Residents in Slum Rehabilitation Housing in Mumbai
Lunch: 13:30 – 14:30 PM		
Poster Presentation:		10.00 – 12.30
Valedictory Session and ESDA Green Award Ceremony: 14.30-16.00		
High Tea: 16.30-17.00 PM		

Glimpses of International Conference (ESDACON-2019) Proceeding-2019



Inaugural Session



Release of the Souvenir (ESDACON-2019)



Valedictory Session and ESDA Green Award Ceremony



Dr. Dhiraj Kumar Singh, MD-Grass Roots Research & Creation India (P) Ltd & Chairman, SEARCH Foundation has been Conferred with **ESDA Environmental Excellence Award-2019** for Environment Entrepreneurship by **Mr. Imran Hussain (Hon'ble Minister, Environment & Forest, Govt. of Delhi)**, **Justice Swatanter Kumar (Ex-chairperson of the National Green Tribunal & former judge of the Supreme Court of India)**, **Prof. M Jagadesh Kumar (Vice-Chancellor, JNU, Delhi)** and many other Guests of Honour.

Proceedings: ESDACON-2019

A Grand Success of our International Conference (ESDACON 2019)...

We are very pleased to inform you that the Environment and Social Development Association (ESDA), Delhi, in foreign partnership with Metropolitan University, San Juan, PR, USA and in collaboration with Grass Roots Research & Creation India (P) Ltd (GRC India), CSIR-National Environmental Engineering Research Institute (NEERI), Centre for the Study of Regional Development (CSR), Jawaharlal Nehru University, New Delhi, Dr. Bhim Rao Ambedkar College of Delhi University, Amity University Noida, Rajiv Gandhi Super Speciality Hospital Delhi, ECPFO Delhi and GSI Delhi organized an International Conference (ESDACON 2019) on **“Global Environmental Challenges, Human Health and Sustainable Development”** very successfully at the Convention Centre, Jawaharlal Nehru University, New Delhi on 11-13 January, 2019. About **800** people participated in this event.

Dr. Bhure Lal, Hon'ble Chairman, Environmental Pollution (Prevention and Control) Authority (EPCA), New Delhi inaugurated the ESDACON 2019. Hon'ble **Justice Mr. Swatanter Kumar**, Former Judge of Supreme Court of India & Former Chairperson of National Green Tribunal and **Shri Imran Hussain Ji**, Hon'ble Minister of Environment and Forest, Govt. of NCT, Delhi participated as a Chief Guest and **Prof. M Jagadesh Kumar**, Vice Chancellor, JNU, Delhi, **Mr. Deepanshu Shrivastava**, Chairman of Governing Body and **Dr. G. K. Arora**, Principal, Dr Bhim Rao Ambedkar College, University of Delhi, **Prof. Raj Kumar**, Director, Vallabhbhai Patel Chest Institute, University of Delhi, **Dr Ajay Kumar**, Associate Professor, Metropolitan University, **Dr. S K Goyal**, Head, CSIR- NEERI Delhi Zonal Centre and **Prof. Milap Punia**, CSR-Delhi, **Mr. Rakesh Agarwal**, Executive Chairman of ECPFO participated as Guest of Honor.

Some eminent speakers like **Dr. K. J. Ramesh**, Director General of Meteorology, India Meteorological Department, Government of India, **Er. Paritosh Tyagi**, Former Chairman, Central Pollution Control Board (CPCB), **Prof. B. R. Gurjar**, Department of Civil Engineering, IIT, Roorkee, **Ms. Sanchita Jindal**, Former Advisor, Ministry of Environment, Forest & Climate Change, New Delhi, **Dr Sushil K Tyagi** (CPCB), **Mr. Deepak Agarwal**, Sr. Vice President, IL&FS Environmental Infrastructure & Services Limited, New Delhi, **Prof. Sirajuddin Ahmed**, Department of Civil Engineering, Jamia Millia Islamia, New Delhi, **Dr Rajeev Adhana**, Senior Surgeon, ENT, Dr. **Chhavi Gupta**, DMS, RGSSH, Tahirpur Delhi, **Mr. Bijan Mishra**, Vice President, Reliance Power and others more than 60 eminent speakers delivered the lecture in the ESDACON 2019. It was altogether a very successful conference.

Based on 3days deliberations in various sessions of the International Conference on **“Global Environmental Challenges, Human Health and Sustainable Development”** with 5 different sub thematic areas (*ST1: Environmental Challenges: Climate Change*

Pollution and Disasters, ST2: Environmental Challenges-Human Health Linkages and Alternative Solutions, ST3:Environmental Challenges, Community Resilience and Regional Development, ST4: Sustainable Agriculture, Food, Environment, Science and Technology and ST5: Sustainable Development Goals and Human Wellbeing) **and 35** plenary and parallel sessions w.r.t the above mentioned sub thematic areas, actionable suggestions & recommendations has been formulated for policy level amendment in the Govt. at state as well as in centre and has been submitted to the concerned ministries, Departments & policy makers to reinforce the sustainable development practices across the country.

