

**Theme:
Environment
&
Mining**



**Human Development Foundation -
Centre for Development Action and Research (HDF-cDAR)
(On behalf of OEC Organizing Committee)**

**DATE: 20TH TO 22ND DECEMBER 2019.
VENUE: REGIONAL MUSEUM OF NATURAL HISTORY (RMNH)**





**ODISHA
ENVIRONMENT
CONGRESS
2019**

THEME:

ENVIRONMENT & MINING

Secretariat of OEC

**HIG: 196 (First Floor), Kanan Vihar Phase 1
Bhubaneswar-751024, Odisha. India**

E-mail: hdf@hdf.org.in, Website: www.oec.org.in / www.hdf.org.in

Phone Number: 0674-2741219

**ODISHA ENVIRONMENT CONGRESS (OEC) 2019
(20th-22nd December 2019)**

THEME

“ENVIRONMENT AND MINING”

DATE: 20TH TO 22ND DECEMBER 2019.

**VENUE: REGIONAL MUSEUM OF
NATURAL HISTORY (RMNH)**

Background:

The 10th Edition of Odisha Environment Congress (OEC) will be held from 20th to 22nd December, 2019. This time the theme will be **Environment and Mining**. Started in 2010, as an annual scientific and civil society event on the environment, the OEC has been providing a unique opportunity for academicians, researchers, scientists, planners, policy makers, students and practitioners for learning, interaction and dissemination of knowledge on different themes around environment. It also provides scope for publication and presentation on theme specific, research-based articles in the proceedings which is released during the main event. The themes of the previous 9 editions were **“Environment & Water Resources”** in 2010, **“Environment & Forest”** in 2011, **“Environment & Energy”** in 2012, **“Environment & Agriculture”** in 2013, **“Environment & Climate Change”** in 2014, **“Environment: Health and Nutrition”** in 2015, **“Environment: Water, Sanitation and Hygiene (WASH)”** in 2016, **“Environment and Sustainable River Basin Management”** in 2017 and **“Environment and Gandhi”** in 2018.

In the last nine years, many scientists/researchers/experts of repute from Odisha as well as outside of the state had attended this mega event, including the Chief Minister, Ministers and officials of both State and Central Govt. Apart from 3 days long conference and paper presentations on the given theme, there have been other **activities** which include various **competitions among school and college students, exhibitions, regional workshops, Young Scientist Awards, Green Corporate Award, Green Ambassador Award, Children’s Environment Congress** etc. Over the past years the successful organization of OECs has established itself as a unique and important platform for the cause of protection and conservation of environment in the state of Odisha.

Theme for OEC-2019: Environment and Mining

Mining, in spite its significant contribution to the State’s economy, has also many detrimental effects on the environment. These are manifested in erosion and contamination, loss of biodiversity, water and air pollution, etc., which adversely impact human health and wellbeing.

Erosion is linked to expose hillsides, mine dumps, tailings dams and the resultant situation of drainages, creeks and rivers that impact significantly the surrounding areas. In forest areas, mining can cause destruction and disturbance of the eco-systems and habitats and in farming areas it can destroy the cultivable and grazing lands.

Mining can have an adverse effect on adjoining surface and ground water and in the absence of proper precautions can lead to high concentration of chemicals such as arsenic, sulfuric acid and mercury over a significant area of surface and sub-surface water. The usage of large amounts of water for mine drainage, mine cooling and other mining processes, leads to contamination of surface and ground water.

The adverse health impacts of mining are many, mainly caused by the release of pollutants into the air. Besides, there are many occupational health hazards that miners face such as respiratory and skin diseases.

Odisha is a mineral rich state. According to Economic Survey 2018-19, it accounts for 35% of Iron Ore reserve and 96% of Chromites reserve in the country. Besides, it has significant reserves of Coal (25%), Nickel (92%), Bauxite (53%) and Manganese (45%). Odisha contributes 34% of mineral production (in value terms) in the country and nearly 11% of Gross Value Added (GVA) in the State. It is in this context that mining activities in Odisha and its related social, economic and environmental problems, deserve attention.

The challenges encountered due to mining require scientific and research-based analysis of the issues and problems and search for workable solutions to address these. The 10th edition of OEC will make a humble attempt in this regard by involving scientists, researchers, academicians, policy makers, industries, activists, NGOs, student etc.

Key Activities of OEC 2019:

Publication of Proceedings:

Proceedings of Odisha Environment Congress 2019 will be prepared and released by the Chief Guest on the 1st day of inauguration during the main event of OEC on 20th December 2019. The proceeding will contain Keynote address, invited papers and papers from young researchers, practitioners and informative article/case studies etc. on the **sub-themes**.

Young Scientists Award:

Papers from young researchers (age 35 and below) will be considered for inclusion in the Young Scientist Award session. In case of multiple authorships, the first author will be considered for the award and he/she shall present the paper. Interested author (s) shall also have to give an undertaking that the work has not been presented elsewhere or has not been submitted for publication/award.

Nomination for Green Ambassador Award:

Nominations from credible NGOs/Civil Society members, academicians, experts in the environment, with a remarkable contribution in the area of environment and mining in Odisha, will be sought to consider for the Green Ambassador Award, for the Year 2019. The nominations will be reviewed by a jury. The winners will be provided with certificates, mementos, crowns and cash prizes.

Nominations for S B Mishra Green Corporate Award:

Nominations from Corporate Bodies or Foundations of Corporate Bodies, having visible contribution in the area of **environment and mining**, will be sought for the **S B Mishra Green Corporate Award** for the year 2019. The nomination will be reviewed by a jury. The winners will be provided with certificate, memento and crown as a token of recognition.

Children's Environment Congress:

To take the environment in general and mining in particular to domain of young minds awareness building activities on the environment and mining through various competitions like essay, debate, painting, story writing, etc. have been planned among School and College students across the State which will culminate in Children's Environment Congress on 21st & 22nd of December 2019 at Xavier University, Bhubaneswar (XUB) campus at Nijigada, Kurki, Harirajpur, Puri. The Xavier School of Sustainability will be hosting the Children's Environment Congress 2019.

The Secretariat of the OEC- HDF-cDAR works as the secretariat for coordinating the entire activities around Odisha Environment Congress. Its office and other details are mentioned below.

HDF-cDAR

196 Kanan Vihar, Phase 1
Bhubaneswar-751024, Odisha
www.oec.org.in / www.hdf.org.in
Email: hdf@hdf.org.in
Phone: 0674-2301019 / 0674-2741219

Participants

More than 500 participants from representing both Central and State Government, corporate houses, NGOs, educational and R&D institutions, etc. will be participating in the three day event.

BUDGET FOR ODISHA ENVIRONMENT CONGRESS-2019

Budget Summery

SI No	Activity	Unit cost (Rs)	No of units	Total Unit cost (Rs)
1.	Printing & Communication Materials			
	a. Brochure	5	2000	10000
	b. Invitation Card	5	1000	5000
	c. Conference Proceedings	300	1000	300000
	Sub Total			315000
2. 2	Inauguration and Technical Sessions (3 Days)			880500
3. 4	Young Scientist Award	10000	3	30000
4. 5	Green Ambassador Award	10000	3	30000
5. 7	Corporate excellence Award	20000	1	20000
6. 8	Children's Environment Congress			363500
7. 9	Display of Models & Exhibitions	50000	1	50000
8.	Co-ordination Expenses at State level	Lump-sum		30000
	Sub Total			1404000
	Grand Total			1719000

Detailed Budget

SI No	Activity	Unit cost (Rs)	No of units	Total Unit cost (Rs)
1	Printing & Communication Materials			
a.	Brochure	5	2000	10000
b.	Invitation Card	5	1000	5000
c.	Conference Proceedings	300	1000	300000
	Sub Total			315000
2	Inauguration and Technical Sessions			
2.1	Inaugural function	Lump sum		30000
2.2	Technical Sessions			
a.	Stage arrangements	Lump sum		20000
b.	Bouquet/Memento to panel chairpersons	150	100	15000
c.	Conference materials like bag, writing pad, pen, programme schedule etc.	200	300	60000
d.	Audio visual equipments/PA system	10000	3 Days	30000
e.	Photographs/video coverage	10000	3 Days	30000
f.	Accommodation for outside state speakers	1000	3 daysx20	60000
g.	Accommodation for state level participants	150	150x3days	67500
h.	Travel cost for outside state speakers	Lump sum		75000
i.	Transport cost (5 vehicles on rent)	2000	5x 3 days	30000
j.	Refreshments	20	300x3 days	18000
k.	Lunch for Participants	250	300x3 days	225000
l.	Dinner	200	300x2 days	120000
m.	Cultural programmes	20000	2 days	40000
n.	Valedictory function and award	Lump-sum		30000
o.	Painting on Canvas & Exhibition	Lump-sum		30000
	Sub Total			880500
3	Young Scientist Award	10000	3	30000
4	Green Ambassador Award	10000	3	30000
5	Corporate excellence Award	20000	1	20000

6	Children's Environment Congress			
a.	Inaugural function	Lump sum		10000
b.	Technical sessions			0
c.	Venue Arrangements (2 Days)	Lump sum		15000
d.	Conference materials like bag, writing pad, pen, programme schedule etc.	150	230	34500
e.	Audio visual equipments/PA system	7500	2 days	15000
f.	Photographs/video coverage	7500	2 days	15000
g.	Accommodation for outside state speakers	2000	4x 2 days	16000
h.	Accommodation for state level participants	150	200x2 days	60000
i.	Travel cost for outside state speakers	Lump sum		30000
j.	Travel cost of district level winner	Lump sum		30000
k.	Transport cost (10 vehicles on rent)	1000	10x2 days	20000
l.	Refreshments	20	200x2 days	8000
m.	Lunch for Participants	150	200x2 days	60000
n.	Dinner	150	200x1 day	30000
o.	Cultural programmes	Lump-sum		10000
p.	Award to winner	Lump-sum		10000
	Sub Total			363500
7	Display of Model & Exhibition	50000	1	50000
8	Co-ordination expenses at state level			30000
	Sub Total			443500
	Grand Total			1719000

Annexure

About the Organizers

HDF-cDAR-Human Development Foundation –Centre for Development Action & Research (HDF-cDAR), a not for profit Trust, has brought together a group of academicians, development thinkers and practitioners to facilitate participatory development initiatives towards empowered community. It works as a Think Tank as well as undertakes various research, advocacy and action projects in the area of Health, Education, Livelihood and Governance which influence the human development indicators to a large extent. It strives to promote people's institutions and platforms to ensure responsive governance system. Odisha Environment Congress (OEC) is one such platform which brings together researchers, scientific community and grass root workers to discuss, deliberated and find out solutions to various environment challenges. HDF-cDAR has been engaging itself with various Govt, Non Govt. & UN Agencies to bring about changes in favour of people's centric policies and reducing implementation of gaps.

Centre for Environment and Development (CED) is an autonomous R&D institution and is the Centre of Excellence on Solid and Liquid Waste Management of the Ministry of Urban Development, Government of India. CED has its headquarters at Thiruvananthapuram, Kerala and has established its Eastern Regional Centre at Bhubaneswar. The major Program Areas of CED are (i) Natural Resource Management, (ii) Water, Environmental Sanitation and Health (iii) Coastal Systems Research), (iv) Climate Change and Energy Studies (v) Information and Knowledge Management and (vi) Policy Studies and Institutional Design. CED has completed a large number of R&D, Consultancy and Training projects sponsored by various national and international agencies. CED has a multi-disciplinary team of around 250 scientists and engineers. CED has been organizing the Kerala Environment Congress in Kerala since 2005 as part of its multifaceted Outreach Programs.

Regional Museum of Natural History (RMNH) Bhubaneswar, is an Eastern regional centre of the National Museum of Natural History, under the Ministry of Environment and Forests, Govt. of India, New Delhi. The goal of the museum is to impart non-formal environmental education to the public in general and the student community in particular in order to inculcate the awareness about the importance of flora, fauna and subsequent conservation of our natural resources.

An aesthetically designed building and landscape sets the tone for an informal and joyful learning experience about our natural heritage and the importance of its conservation. It offers an exciting opportunity for hands on and minds on activity to interact with the exhibits under recreated environment to attain the knowledge about the harmony of plants and animals and their interrelationships in nature.

The museum attempts to showcase the vibrant biodiversity of Odisha, the Northeast and the Andaman and Nicobar Islands depicting their richness under one roof, thereby making people aware of the natural heritage of the state and beyond. Extending the excellent facilities to the masses in order to make environmental education to the common man is the driving force behind the creation of the museum. It attempts to strike a chord with the common man and apprise him of the importance of the natural bio resources and their conservation.

ORISSA ENVIRONMENTAL SOCIETY (OES), Bhubaneswar, was formed in 1982 with the prime objective of promoting awareness towards protection of the fast-deteriorating environment and conservation of the depleting natural resources of the State of Odisha by way of undertaking various activities. It has been preaching the principles of sustainability based on ecologically, economically and socially sound practices. In recognition of the services rendered, the Society is represented in various state and national level committees and forums on environment, wildlife and science & technology and has won accreditations from national and international organizations. It has made landmark contributions in respect of Similipal Biosphere reserve, Chilika Lagoon, Mahendragiri Hill Terrain and Anugul-Talcher Industrial Area.

SIKSHA 'O' ANUSANDHAN (SOA) —WHERE EXCELLENCE IS THE ONLY MANTRA: The multi-campus infrastructure of SOA is home to more than 10,000 students in its 16 undergraduate and 73 postgraduate courses, Ph.D. and Postdoctoral programs in engineering and technology, management, medical sciences, dental sciences, nursing, hospital administration, pharmaceutical sciences, biotechnology, hospitality and tourism management, legal studies and agricultural sciences. The Institute of Medical Sciences has a 1000-bed hospital attached to it which has become one of the most sought after healthcare centers in the state.

SOA's focus being on research, it has set up 13 special research centers and 35 research labs. Research is also being conducted in 15 other independent labs in 18 identified thrust areas. The latest research centre to come up is the Centre for Environment and Climate (CEC). It is working towards promoting strategic knowledge on the environment, weather extremes, climate variability and climate change while monitoring the impact and risk factors of climate change on the environment, ecosystem, human health, agriculture and water resources.

Within a short period, since it was given the status of Deemed to be University, the SOA has climbed several heights, in the field of learning, both at the national and international level, that included finding a place in the list of 60 institutions of higher learning by the UGC, India and 25 among the top universities in India by the National Institutional Ranking Framework (NIRF), Ministry of HRD, Government of India, for three consecutive years. Recently, three programmes of the Institute of Technical Education and Research (ITER), SOA's Faculty of Engineering and Technology, were accredited by the prestigious USA-based Accreditation Board for Engineering and Technology (ABET)

While SOA continues to expand in its academic pursuits, its principal objective remains same and that is to ensure that its students value their own lives as that of others.

XAVIER UNIVERSITY - *"Education... that meets the needs of the society and enables the building of sustainable communities."* Xavier University, Bhubaneswar (XUB) sees itself as a quality institute delivering quality management education to quality students from the world over. The Xavier University came into being with the Government of Odisha passing the Xavier University Act in June 2013. It inherits the legacy of XIMB (Xavier Institute of Management Bhubaneswar), a premier world class B-School in the country. The identity of Xavier University is distinguished by its philosophy of 'Inspiring Futures' by not just walking the well-trodden path but striking out and exploring new paths. There is a clear intent to be the first to respond to the needs of the society and enable the building of sustainable communities that inspire the future of the State and the Country serving as an active agent of change.

The Xavier University stands tall in its mission of inspiring future generations of students aspiring for excellent quality higher education. We offer a wide gamut of programs in Business and Management. The University aims to fulfill its mission by continuing to introduce new programmes to groom visionary, competent, committed, compassionate and value-based leaders. It empowers the students with the knowledge, skills, and long-term vision that leads to innovation, service to society and growth. The University encourages the students to cultivate learning opportunities beyond the classroom, through various Student Forums. The academic programs are designed around a "learning by-doing" model that encourages extensive interaction with all components of the University's ecosystem which serves as a starting point for evolving leadership philosophy and resilient business practices. Apart from academic activities, the co-curricular activities, sports, cultural and community activities, form important parts of the life of the students.

Organizing Committee of OEC-2019

Advisors	Shri Abasara Beuria, IFS,(Retd) Former Indian Ambassador
	Professor Radha Mohan Noted Environmentalist & Former RTI Commissioner
	Shri. Rangalal Jamuda, I.A.S (Rtd.), Former Chair, State Food Commission
	Dr Bhagaban Prakash Former Advisor, Election Commission of India
	Dr Binayak Rath Former Vice Chancellor, Utkal University, Bhubaneswar
	Dr. D.P. Ray Former Vice Chancellor, OUAT & Advisor, SOA University
	Professor Padmaja Mishra Vice Chancellor, RD Women's University
	Dr. (Padmashree) Ajay Kumar Parida, Director, Centre for Life Science, Bhubaneswar
	Prof. Bijaya Mishra, President, Mamta
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	Dr Seba Mahapatra Former Director, DHS, Govt. of Odisha
	Dr. B. B. Samanta, Former SPO and Advisor, WASH, UNICEF Central Asia
	Shri Prafulla Kumar Sahoo Chairman, CYSD
	Dr. S.N. Patro President, Orissa Environment Society
	Shri Ajit Kumar Pattnaik, IFS, Former Director, Chilika Development Authority,
	Professor S. Pepin Academic Dean, Xavier School of Rural Management
	Dr Bhagirathi Behera, IFS, (Retd) Former-Director, Environment, GoO
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	Shri Umi Daniel Regional Head, Aideit-Action, BBSR
	Prof. Pratap Acharya,

	Former Professor, Utkal University
	Ms. Meena Das Mohapatra Regional Team Leader, FES
	Shri Kiran Sankar Sahu President, Citizens' Forum, Kendujhar
	Er Bal Mukunda Das Former Chief Engineer GRIDCO
	Prof. Raghunatha Mandal, IMS
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	Shri. Harekrushna Panigrahi, HDF-cDAR
	Dr. Sruti Ranjan Mishra, Convener, OPIF
	Shri Nirod Barana Khuntia, Social Activist
	Shri Bijoy Kumar Pradhan State Coordinator, Mahanadi Bachao Andolan (MBA)
	Shri Dillip Sabat, Journalist
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	Dr. Shishira Kanta Behera, Odisha Water Forum & Prof. of SOA University
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	Prof. Dr. Tattwamasi Paltasingh Dept. of Sociology, Sambalpur University
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Organizing Secretary:	Shri Sudarsan Das, Managing Trustee, HDF-cDAR