



2023-24

# ANNUAL REPORT

Knowledge-Based Activism



# OVERVIEW OF OUR WORK LAST YEAR 2023-24

SUNITA NARAIN

**F**or an organisation that is working to bring change in the areas of environment, development and climate change we clearly cannot claim that we have had a good year in 2023-24. The world is many ways going backwards on its commitments to combat the existential crisis of climate change. And this is when we know that the impacts of extreme weather events are hurting, in fact are crippling the lives of the poor across our world. So, the urgency of action is clear. It is also clear that we must scale up the responses so that the development practices that work for livelihood and economic growth but also for the environment can be scaled up.

It is a time when an organization like CSE must recommit itself to its mission to the objectives of research and advocacy for environmental security. This is particularly important given the sheer crisis that we are looking at. From that perspective, I believe my colleagues through their work have made a difference. While we cannot and must not claim that we are responsible for the change that we see in our world, we can definitely say that we have contributed through our ideas, our persistence, and our ability to be able to communicate the game-changing ideas to the change we see in the world.

For CSE, our theory of change is simple. We believe today that it is more than ever important for us to focus on the need for solutions so that we do not only look at the problem but analyse it so that we can find the way ahead. It is the solution that we then stand behind through our technical work, further research and to communicate the need for change and difference in paradigm, in the approach that is needed to be taken. We believe very strongly that if growth is not inclusive, not affordable, it cannot be sustainable. That is the mission that drives us.

But as part of this theory of change, we believe we must also communicate this knowledge so that it unleashes the power of millions to see the change and to practice it. Amplification of our message is today absolutely critical and it is for this that we can tell you that in this last year, we have reached over close to 30 million visitors on our "Down to Earth" English

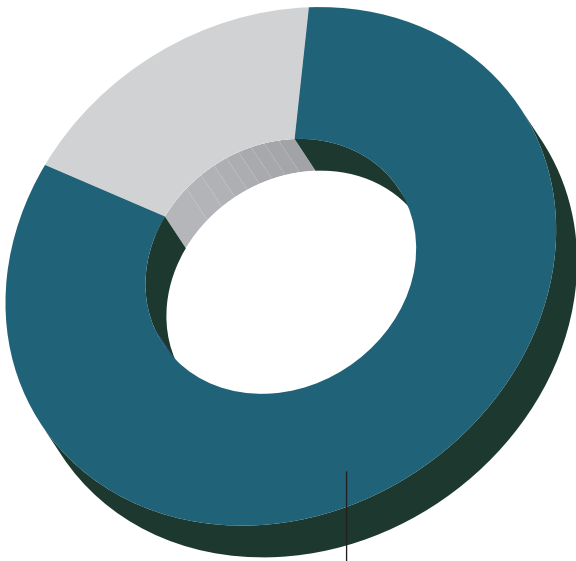
and Hindi websites. Across social media platform from Instagram, Face Book and LinkedIn we got 226 million impressions. Over the years we did 127 seminars as well webinars. All this has an effort to outreach the knowledge that we put together in 101 publications, which were downloaded over 86,000 people or 86,000 times.

But this is not all. Our work is to build capacity, to build multipliers in society who have the skills to be able to implement the change. It is for this reason that we do trainings both in our campus at the Anil Agarwal Environment Training Institute (AAETI) and also online. In this last year, we did over 150 trainings, of which, 101 were on-site training and we reached roughly 15,000 people with our trainings, as many as 3,000 people visited our campus for the on-site trainings which were for all subjects from waste management, rainwater harvesting, faecal sludge management and, of course, the communities that we are working with from school teachers to university professors and pollution control regulators. These are all multipliers in society, who, armed with knowledge and perspective, will be able to drive the practice of change on ground.

If you look at the outcomes that we had, I believe that each team at CSE has contributed to new knowledge that has been created in society from electric buses to thermal cooling insulation material to how to improve desludging operations of faecal sludge plants. In each case we have worked on what is the way ahead; through our deliberate process of outcome-based activity planning each team then has taken forward the work a step ahead. These objectives then drive the work off the institution.

As I said, our road ahead is difficult. It is getting more difficult as the world recognises the need for change. That change has become more contested because the implementation is even more difficult. Through our research we have shown that we cannot follow the pathway that was set for environmental management in the past. We must reengineer and reinvent what we do for a clean sustainable and equitable future.

## Research



**82%**  
of our plan completed



We had **11,280** media mentions in the year; roughly **31 every day** of the year; In India and globally



Our specialized newsletters reach **5,31,000** people



We did **101** publications; which were downloaded

**86,078** times

A hand cursor icon with a yellow skin tone, pointing towards the number 86,078. The number is displayed in white on a dark teal background with a sunburst effect.

## Capacity Building



We did **101** onsite training programmes, with **3,555** people who visited our campus in the year

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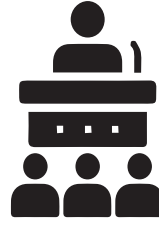
We did **127** seminar; conferences; webinars, which were attended by **14,000** people from across the world

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We did **50** online trainings, had **22,340** registrations and trained **13,038** people in subjects ranging from municipal solid waste to environmental education

## Outreach



Across social media platforms- from Facebook, Instagram, LinkedIn and others -we got **226 million** impressions

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Our online events were viewed by **126,246** people in different social media platforms, LinkedIn to Youtube

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<https://www.>



In 2023-24 CSE-DTE websites had **31 million** visitors. Down To Earth in March 2024 reached **2.52 million** visitors.

## Annual Report For 2023-2024

### 1. Activity Status : Summary

S.N.	Unit Name	Total No.	Done	Not Done	Under Review	Ongoing	Done (%)
1.	Down To Earth (DTE)	136	124	10	0	2	91
2.	Sustainable Habitat (GBP)	48	42	4	2	0	88
3.	Municipal Solid Waste (MSW)	72	60	9	3	0	83
4.	Industrial Pollution (IND)	65	58	6	0	1	89
5.	Sustainable Food Systems (FST)	32	25	7	0	0	78
6.	Environment Monitoring Laboratory (LAB)	23	19	4	0	0	83
7.	Climate Change (CCH)	27	23	4	0	0	85
8.	Renewable Energy (REP)	43	22	16	2	3	51
9.	Water Programme (WUB)	173	159	10	3	1	92
10.	Media (MED)	19	15	4	0	0	79
11.	Environment Education (EDU)	76	54	22	0	0	71
12.	Clean Air & Sustainable Mobility (APC)	88	59	23	6	0	67
13.	Urban Lab (ULAB)	20	14	3	3	0	70
	<b>Total</b>	<b>822</b>	<b>674</b>	<b>122</b>	<b>19</b>	<b>7</b>	<b>82</b>

### 2. Media

Team	Total no of media clips	PRINT/ONLINE				ELECTRONIC MEDIA/TV			
		National	Regional	Global	Africa	National	Regional	Global	Africa
Books	1			1					
Clean Air & Sustainable Mobility	422	331	69	17	2	3			
Climate Change	112	93	5	14					
Director General Office	184	142	18	21		1		1	
Down To Earth	360	223	83	20	29				
DTE - Web	32	21	8	1	2				
DTE Hindi	21	13	7						
Environment Education	27	7	19	1					
Industrial Pollution	137	76	21	9	23	1			5
Municipal Solid Waste	87	61	14	7	4			1	
Renewable Energy	47	33	8	3	1	2			
Rural Water-Waste Management	2		2						

Team	Total no of media clips	PRINT/ONLINE				ELECTRONIC MEDIA/TV			
		National	Regional	Global	Africa	National	Regional	Global	Africa
Sustainable Food Systems	93	61	10	21	1				
Sustainable Habitat	34	23	8			2			
Urban Lab	234	174	20	27		9	3		
Water Programme	75	27	45		2		1		
Website	3		3						
<b>Total</b>	<b>1871</b>	<b>1285</b>	<b>340</b>	<b>142</b>	<b>64</b>	<b>18</b>	<b>4</b>	<b>2</b>	<b>5</b>

### 3. Work done in the year 2023-2024

#### 3.1 Seminar & Conferences / Meetings / Webinars etc.

S.N.	Unit	Total No.	Registrations	Attendee	Female (%)	Govt officials (%)	International participants (%)	Others (%)
1.	Down To Earth (DTE)	9	2949	1100	46	3	0	97
2.	Sustainable Habitat (GBP)	11	1377	3754	29	9	0	91
3.	Municipal Solid Waste (MSW)	9	2337	1133	52	26	27	74
4.	Industrial Pollution (IND)	8	292	330	17	38	6	62
5.	Sustainable Food Systems (FST)	9	2084	925	42	13	19	87
6.	Environment Monitoring Laboratory (LAB)	5	45	42	52	10	7	90
7.	Climate Change (CCH)	10	4924	1795	101	0	0	100
8.	Renewable Energy (REP)	7	2057	786	31	14	4	86
9.	Water Programme (WUB)	24	5382	3129	31	27	4	73
10.	Media (MED)	12	3456	245	378	2	0	98
11.	Environment Education (EDU)	14	3121	647	209	0	0	100
12.	Clean Air & Sustainable Mobility (APC)	9	303	298	21	51	0	49
	<b>Total</b>	<b>127</b>	<b>28327</b>	<b>14184</b>	<b>57</b>	<b>14</b>	<b>5</b>	<b>86</b>

#### 3.1.1 Events Outreach

S.N.	Unit	Youtube CSE	Youtube DTE	Facebook CSE	Facebook DTE	Facebook DTE Hindi	Facebook GD	Twitter CSE	Twitter DTE	Linkedin CSE	Total
1.	Down To Earth	180	2081	981	910	NA	NA	981	1117	7624	<b>13874</b>
2.	Sustainable Habitat	137	NA	79	NA	NA	NA	115	NA	1309	<b>1640</b>
3.	Municipal Solid Waste	113	NA	92	NA	NA	NA	462	NA	2055	<b>2722</b>
4.	Sustainable Food Systems	556	NA	473	NA	NA	NA	1428	NA	5003	<b>7460</b>
5.	Climate Change	1276	NA	713	128	NA	NA	5741	208	17688	<b>25754</b>
6.	Renewable Energy	747	NA	142	NA	NA	NA	406	NA	3464	<b>4759</b>

S.N.	Unit	Youtube CSE	Youtube DTE	Facebook CSE	Facebook DTE	Facebook DTE Hindi	Facebook GD	Twitter CSE	Twitter DTE	Linkedin CSE	Total
7.	Water Programme	942	NA	441	NA	NA	NA	1017	NA	8201	<b>10601</b>
8.	Media	7183	26178	828	3660	229	NA	2322	448	14466	<b>55314</b>
9.	Environment Education	146	NA	365	NA	NA	116	196	NA	3299	<b>4122</b>
	<b>Total</b>	<b>11280</b>	<b>28259</b>	<b>4114</b>	<b>4698</b>	<b>229</b>	<b>116</b>	<b>12668</b>	<b>1773</b>	<b>63109</b>	<b>126246</b>

### 3.2 Publications

S.N.	Unit	Total No.	Uploaded on CSE Website	No. of Downloads	Internal Publications
1.	Down To Earth (DTE)	2	2	23658	0
2.	Sustainable Habitat (GBP)	7	3	5767	4
3.	Municipal Solid Waste (MSW)	9	7	5467	2
4.	Industrial Pollution (IND)	10	8	6119	2
5.	Sustainable Food Systems (FST)	4	4	1314	0
6.	Environment Monitoring Laboratory (LAB)	6	6	4598	1
7.	Climate Change (CCH)	8	8	10258	1
8.	Renewable Energy (REP)	4	2	11180	2
9.	Water Programme (WUB)	16	9	4640	5
10.	Environment Education (EDU)	11	5	0	3
11.	Clean Air & Sustainable Mobility (APC)	13	8	10492	5
12.	Urban Lab (ULAB)	11	10	3547	1
	<b>Total</b>	<b>101</b>	<b>72</b>	<b>87040</b>	<b>26</b>

### 3.3 Priced Publications

S.N.	Unit	Total No.	Quantity Sold	Revenue(INR)
1.	Down To Earth (DTE)	3	2392	13,67,373.71
	<b>Total</b>	<b>3</b>	<b>2392</b>	<b>13,67,373.71</b>

### 3.4 Newsletter details

S.N.	Activity	Frequency	No. of subscribers	Open rate (%)
1.	Newsletter - Industry Environment Connect - QIV(IND-212-07815)	Quarterly	4083	26.8
2.	Weekly Africa Newsletter – external - Q IV(DTE-145-08410)	Weekly	15000	16.31
3.	Weekly Climate Newsletter – external - Q IV(DTE-145-08414)	Weekly	31000	15.21
4.	Fortnightly RE newsletter - Q IV(REP-208-08433)	Fortnightly	11000	20.74
5.	Newsletter Environment Policy Digest - Q IV(DTE-145-08513)	Monthly	21000	9.83
6.	Daily DTE English newsletter - Q IV(DTE-145-08522)	Daily	53000	15.22
7.	Environment-In-Court Newsletter (Weekly) - Q IV(DTE-145-08541)	Weekly	20000	15.82
8.	Daily DTE Hindi newsletter - Q-4(DTE-144-08556)	Daily	28000	16.23
9.	CSE Newsletter Q4(MED-158-08580)	Weekly	330000	18.17
10.	Monthly GEN Newsletter-Q4(EDU-129-08801)	Monthly	740	20
	<b>Total</b>		<b>513823</b>	<b>17.43</b>



### 3.5 Online Training

S.N.	Unit	Total No.	Registrations	Attendee	Female (%)	Govt officials (%)	International participants (%)	Others (%)
1.	Down To Earth (DTE)	6	1757	758	52	15	6	85
2.	Sustainable Habitat (GBP)	2	215	225	38	41	0	59
3.	Municipal Solid Waste (MSW)	12	3560	2214	15	26	7	74
4.	Industrial Pollution (IND)	8	2172	623	37	19	0	81
5.	Water Programme (WUB)	4	690	441	29	78	0	22
6.	Media (MED)	2	264	72	14	0	0	100
7.	Environment Education (EDU)	16	13682	8705	73	0	0	100
<b>Total</b>		<b>50</b>	<b>22340</b>	<b>13038</b>	<b>57</b>	<b>9</b>	<b>2</b>	<b>91</b>

### 3.6 Onsite Training

S.N.	Unit	Total No.	Registrations	Attendee	Female (%)	Govt officials (%)	International participants (%)	Others (%)
1.	Sustainable Habitat (GBP)	13	505	338	22	60	0	40
2.	Municipal Solid Waste (MSW)	18	1335	967	13	34	0	66
3.	Industrial Pollution (IND)	14	462	339	25	78	0	22
4.	Environment Monitoring Laboratory (LAB)	8	401	186	36	70	1	30
5.	Renewable Energy (REP)	5	281	218	8	22	0	78
6.	Water Programme (WUB)	30	1076	964	24	77	1	23
7.	Environment Education (EDU)	6	386	390	42	10	0	90
8.	Clean Air & Sustainable Mobility (APC)	7	185	153	13	99	0	1
<b>Total</b>		<b>101</b>	<b>4631</b>	<b>3555</b>	<b>22</b>	<b>54</b>	<b>0</b>	<b>46</b>

### 4. Social Media Outreach

	Social Accounts	Followers/Subscribers	Impressions (April 22-March 23)	Impressions (April 23-March 24)	Engagement	Engagement Rate	% Growth (Impressions)
Facebook	<a href="#">DTE English</a>	0.47 Mn	5 Mn	6.8 Mn	73,127	1.1%	70.9%
	<a href="#">DTE Hindi</a>	1,89,229	11.6 Mn	13 Mn	1,46,562	1.1%	11.7%
	<a href="#">CSE</a>	23,338	53,591	89,594	5,018	5.6%	67.2%
	<a href="#">Young Environmentalist</a>	6,945					
	<a href="#">Sunita Narain</a>	9,657	13,873	0.7 Mn	10,265	1.4%	5199.9%
	<a href="#">India Environment Portal</a>	5,300					
Twitter	<a href="#">DTE English</a>	80,236	4.4 Mn	7.3 Mn	1,83,167	2.5%	69.2%
	<a href="#">DTE Hindi</a>	5,239	0.3 Mn	0.96 Mn	53,185	5.5%	212.8%
	<a href="#">CSE</a>	24,875	0.43 Mn	0.6 Mn	24,000	4.0%	36.5%
	<a href="#">Sunita Narain</a>	54,347	91,879	1,87,763	6,573	3.5%	104.4%
	<a href="#">India Environment Portal</a>	6,749	8,906	11,336	294	2.6%	27.3%

	Social Accounts	Followers/Subscribers	Impressions (April 22-March 23)	Impressions (April 23-March 24)	Engagement	Engagement Rate	% Growth (Impressions)
Instagram	<a href="#">DTE English</a>	3,05,603	2.9 Mn	25.9 Mn	0.44 Mn	1.7%	780.8%
	<a href="#">DTE Hindi</a>	394	0	11,000	140	1.3%	
	<a href="#">CSE</a>	3,890	6,850	14,894	4,924	33.1%	117.4%
	<a href="#">Young Environmentalist</a>	269					
Youtube	<a href="#">DTE English</a>	0.6 Mn	211 Mn	168 Mn	0.39 Mn	0.2%	-23.3%
	<a href="#">DTE Hindi</a>	485	0	680	55	8.1%	
	<a href="#">CSE</a>	7,060	1,31,453	2,00,000	34,300	17.2%	52.1%
	<a href="#">India Environment Portal</a>	788					
Linkedin	<a href="#">CSE</a>	59,168	1.4 Mn	2 Mn	36,196	1.8%	37.6%
	<a href="#">DTE English</a>	260		2,000	8	0.4%	
	<a href="#">Sunita Narain</a>	1,630	0	1,09,702	2,093	1.9%	
Telegram	<a href="#">DTE English</a>	22,355	0.2 Mn	0.4 Mn	5,429	1.2%	110.4%
	<b>Total</b>	<b>1.89 Mn</b>	<b>244 Mn</b>	<b>226 Mn</b>	<b>1.4 Mn</b>	<b>0.6%</b>	<b>-7.3%</b>

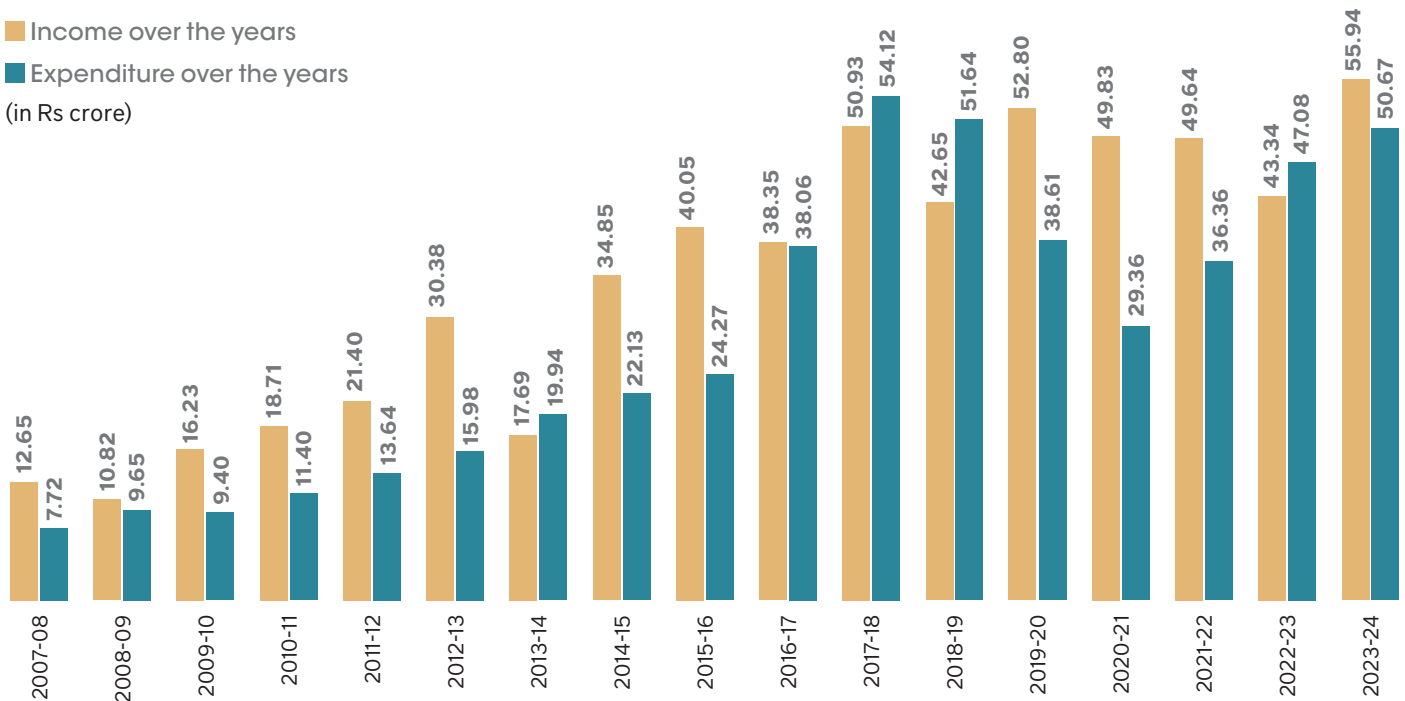
#### 5. Web Media Outreach

Website	Daily Visits - March 23	Daily Visits - March 24	Monthly Visits - March 23	Monthly Visits - March 24	Yearly Visits (March-April 23)	Yearly Visits (March-April 24)	Growth	Target March 25
<a href="#">Down to Earth (English)</a>	58,784	66,376	1.73 Mn	1.91 Mn	17.2 Mn	19.6 Mn	10.5%	2.5 Mn/Month
<a href="#">Down to Earth (Hindi)</a>	22,366	26,375	0.67 Mn	0.79 Mn	7.8 Mn	9.4 Mn	21.0%	1 Mn/Month
<a href="#">CSE</a>	2,089	2,159	62,665	64,776	0.8 Mn	0.8 Mn	0.2%	1,50,000/Month
<a href="#">India Environment Portal</a>	1,421	1,577	42,640	47,309	0.62 Mn	0.53 Mn	-15.7%	1,00,000/Month
<a href="#">Green School Programme</a>	110	116	3,288	3,465	47563	116689	145.3%	5000/Month
<a href="#">Young Environmentalist</a>	1,718	172	51,531	5,165	434254	158892	-63.4%	1,00,000/Month
<a href="#">CSE Store</a>	411	423	12,320	12,675	140878	142205	0.9%	1,0,000/Month
<b>Total</b>	<b>86,899</b>	<b>97,198</b>	<b>2.6 Mn</b>	<b>2.81 Mn</b>	<b>27.8 Mn</b>	<b>31.3 Mn</b>	<b>12.5%</b>	<b>3.9 Mn/Month</b>

# FINANCIAL REPORT (2023-24)

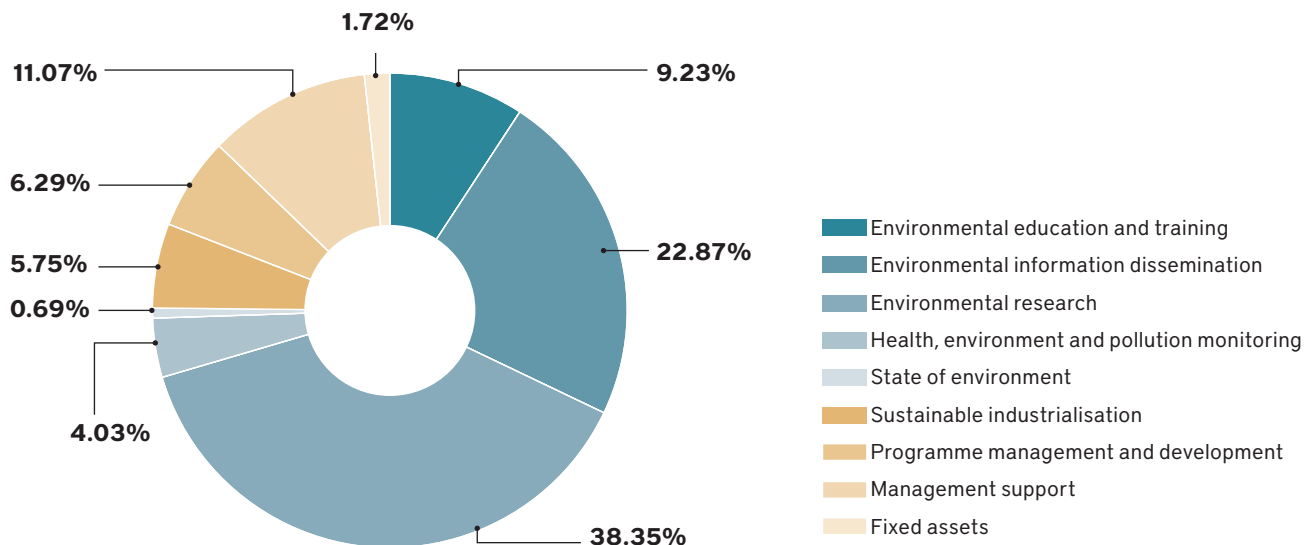
## Income and expenditure over the years 2007-08 to 2023-24

Income over the years  
Expenditure over the years  
(in Rs crore)



## Project-wise expenditures

FY 2023-24 (% of total expenditure)



# List of donors 2023-24

Swedish International Development Cooperation Agency (SIDA)

Bill and Melinda Gates Foundation

John D. and Catherine T. MacArthur Foundation

Norwegian Ministry of Foreign Affairs

Bread for the World

Bloomberg Philanthropies

Katholische Zentralstelle für Entwicklungshilfe e. V.

New Venture Fund

Clean Air Fund

Charity Aid Foundation

International Sustainable Energy Foundation

National Mission for Clean Ganga, Govt. of India

National Jal Jeevan Mission, Govt. of India

Dr. Kamla Chowdhury Endowment

## Donations

Abhishek Kumar Singh | Deepak | Satya Durga Rajesh Parepalli |  
T S Mahadevan | Kamal Suchetan | Partha Chakraborty |  
Anas | Ketan Soni | Grg Trust | Subhendu Ghatak | Komal Pahuja |  
Narendra Nigam | Elizebath Roy | Abhishek Kumar Singh |  
Krishna Kumar | David Esopi | Nazareth Literary and Benevolent In

## FACTSHEETS

### C&D waste case studies (15 case studies)



### COP 28 factsheets (six factsheets)



## DTE publications



**Assessment of Extreme Weather Events**



**SoE in Africa (e-book/ limited print)**



**First Food: Biodiversity on our plate**

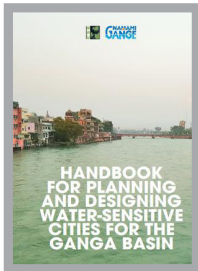


**State of India's Environment in Figures (e-book)**



**State of India's Environment-2024**

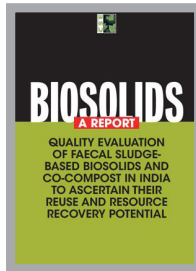
# CSE Publications (2023-24)



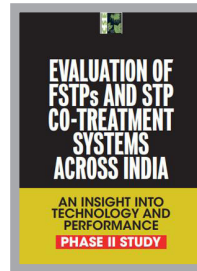
**Handbook for Planning and Designing Water-Sensitive Cities for the Ganga Basin**



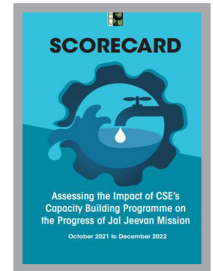
**Share Tweet Share Share India's Energy Mix with Compressed Biogas (CBG)**



**Biosolids: A Report**



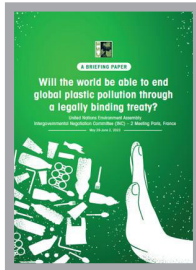
**Evaluation of FSTPs and STP Co-Treatment Systems across India: An Insight into Technology and Performance**



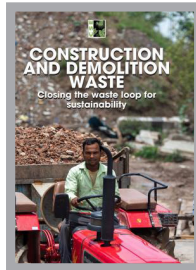
**JJM Scorecard: Version 4**



**Tropical EV Batteries: Battery Cell Development to Drive e-Mobility in India**



**Will the world be able to end global plastic pollution through a legally binding treaty?**



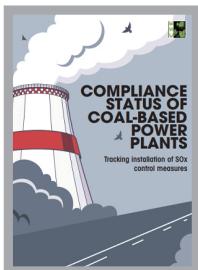
**Construction and Demolition Waste**



**Odisha Clean Air Action Plan**



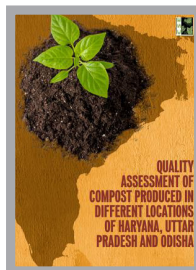
**Quality Assessment of Compost Produced in Different Locations of Haryana, Uttar Pradesh and Odisha**



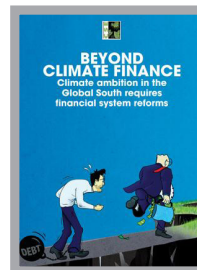
**Compliance Status of Coal-Based Power Plants**



**Ban on Single-Use Plastics**



**Quality Assessment of Compost Produced in Different Locations of Haryana, Uttar Pradesh and Odisha**



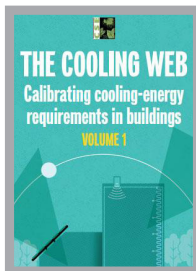
**Beyond Climate Finance: Climate ambition in the Global South requires financial system reforms**



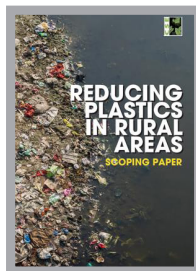
**CSE Annual Report**



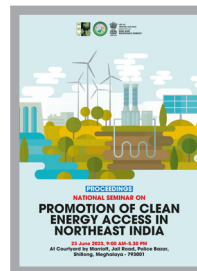
**State Model Bye-Laws for Faecal Sludge and Septage Management (FSSM)**



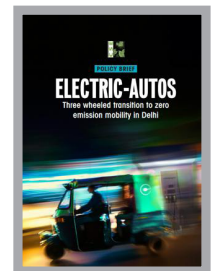
**The Cooling Web: Calibrating cooling-energy requirements in buildings. Volume 1**



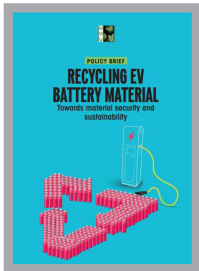
**Reducing Plastics in Rural Areas: Scoping Paper**



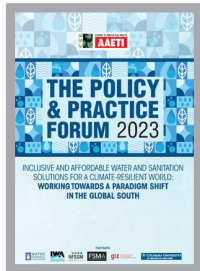
**National Seminar on Promotion of Clean Energy Access in Northeast India**



**ELECTRIC-AUTOS**



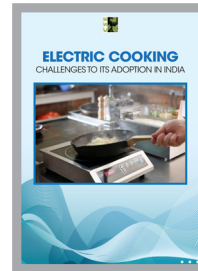
**Recycling EV battery material Towards material security and sustainability**



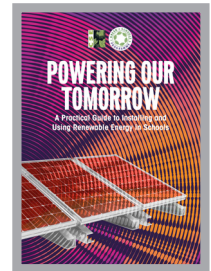
**The Policy and Practice Forum 2023**



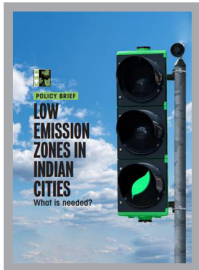
**Managing Groundwater Sustainably in Rural Areas**



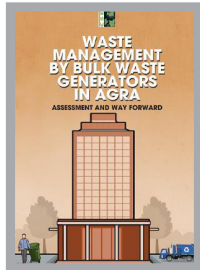
**Electric cooking: challenges to its adoption in India**



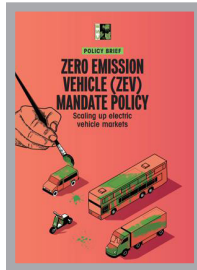
**Powering our Tomorrow: Using Renewable Energy in Schools**



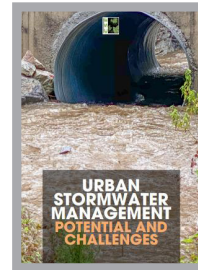
**Low Emissions Zones (LEZ) in Indian Cities**



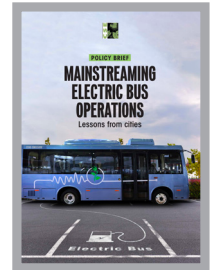
**Waste Management By Bulk Waste Generators in Agra**



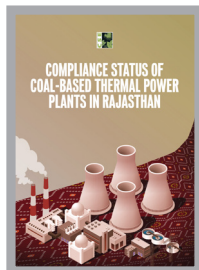
**Zero Emission Vehicle (ZEV) Mandate Policy Report**



**Urban Stormwater Management- Potential and Challenges**



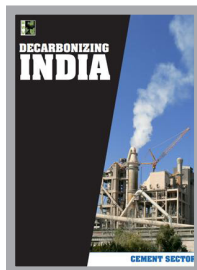
**Mainstreaming electric bus operations: Lessons from cities**



**Compliance status of coal based thermal power plants in Rajasthan**



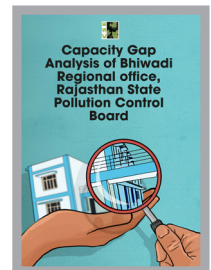
**Solid Waste Management Assessment of Gurugram**



**Decarbonizing India Cement Sector**



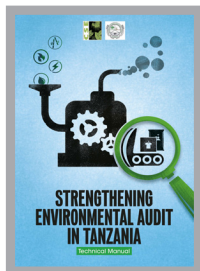
**Methane Emissions From Open Dumpsites in India**



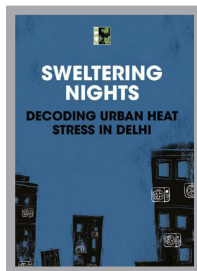
**Capacity Gap Analysis of Bhiwadi Regional Office**



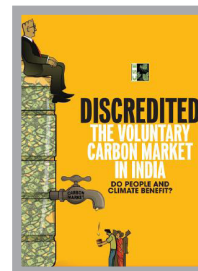
**Solid Waste Management By Bulk Waste Generators in Gurugram**



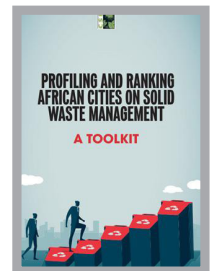
**Strengthening Environmental Audit in Tanzania: Technical Manual**



**Sweltering Nights: Decoding Urban Heat Stress in Delhi**



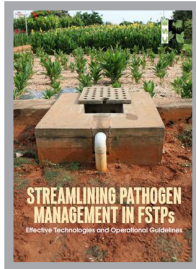
**Discredited: The Voluntary Carbon Market in India**



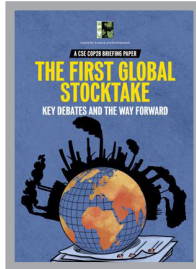
**Toolkit for Profiling and Ranking African Cities on Solid Waste Management**



**Best practices and strategies for pathogen-free compost production**



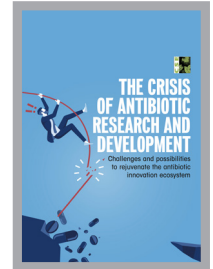
**Streamlining Pathogen Management in FSTPs- Effective Technologies and Operational Guidelines**



**The First Global Stocktake**



**Mainstreaming Circular Economy in the Waste Management Sector in India**



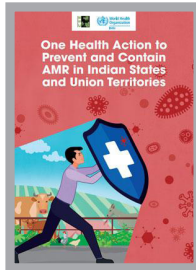
**The Crisis of Antibiotic Research and Development**



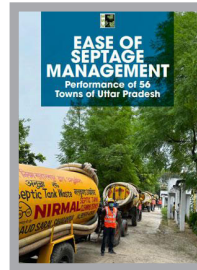
**Containing Antibiotic Pollution from Manufacturing**



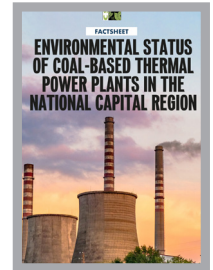
**Combating Black Carbon for Clean Air and Climate**



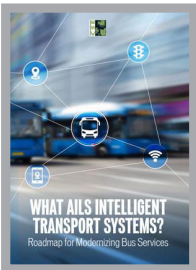
**One Health Action to Prevent and Contain AMR in Indian States and Union Territories**



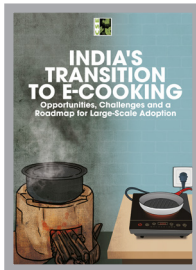
**Ease of Septage Management**



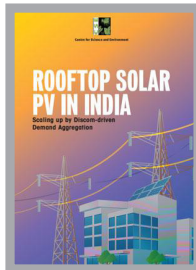
**Environmental status of coal thermal power plants in NCR**



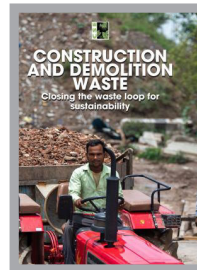
**What Ails Intelligent Transport System: Roadmap for modernising bus services**



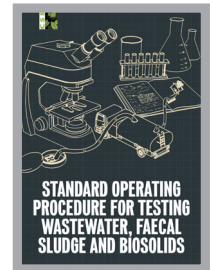
**India's Transition to E-cooking**



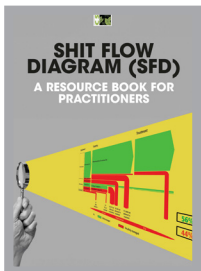
**Scaling Up by Discom-Driven Demand Aggregation**



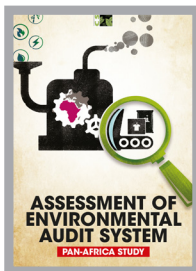
**Construction and demolition waste**



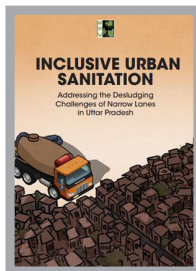
**Standard operating procedure for testing wastewater, faecal sludge and biosolids**



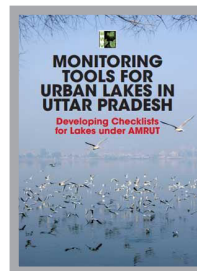
**Shit Flow Diagram (SFD)**



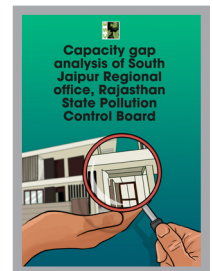
**Assessment of Environmental Audit System: Pan-Africa Study**



**Inclusive Urban Sanitation Addressing the Desludging Challenges of Narrow Lanes in Uttar Pradesh**



**Monitoring Tools for Urban Lake in Uttar Pradesh**



**Capacity Gap analysis of South Jaipur regional office**





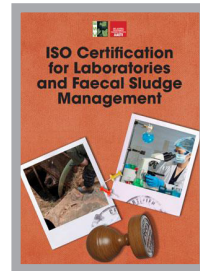
**Improving Wastepaper Circularity for the Pulp and Paper Sector**



**Gainful utilization of Segregated Combustible Fraction (SCF) Recovered from Biomining of Legacy Waste Dumpsites in India**



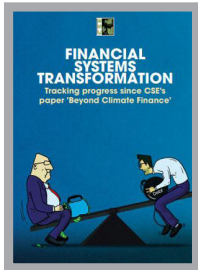
**Factsheet of industrial emissions in Alwar**



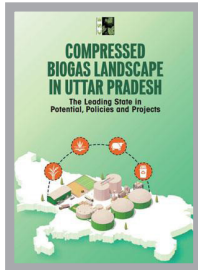
**ISO Certification for Laboratories and Faecal Sludge Management**



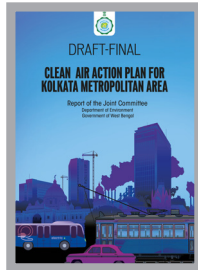
**Faecal Sludge Management in Ethiopia**



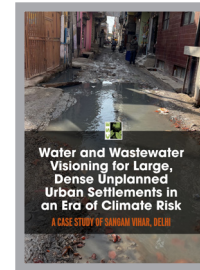
**Financial Systems Transformation**



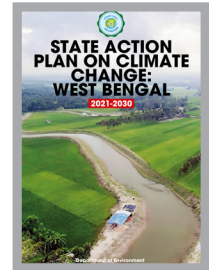
**Compressed Biogas Landscape in Uttar Pradesh**



**Clean Air Action Plan for Kolkata Metropolitan Area**



**Water and Wastewater Visioning for Large, Dense Unplanned Urban Settlements in a Climate Risk Era**



**West Bengal State Action Plan on Climate Change**



**Gobar Times: Special issue on Waste**



**Gobar Times: Special issue on Climate Change**

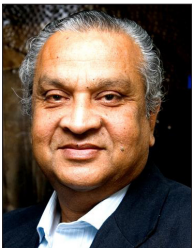


**Gobar Times: Special issue on GSP Carnival**



**Gobar Times: Special issue on Air Pollution**

# EXECUTIVE BOARD



## **Raj M.S. Liberhan (Chairperson)**

is a management and financial expert, has varied experience, with a significant range of responsibilities at the senior level in government, public sector and NGO environments, building and sustaining organisations, programmes and missions with sector-specific objectives and services. He served as Chief Executive of the India Habitat Centre, New Delhi, for 15 years and helped create a unique institutional mechanism.



## **G.N. Gupta (Member)**

joined the Board of CSE in 1998 and is among the core group that provides guidance on institutional development issues, particularly on financial issues. As a member of the Indian Revenue Service, he held several key positions in the revenue department of the Ministry of Finance. He served as the Chairman of the Central Board of Direct Taxes, India's highest tax-making body, and also as a Director in the Planning Commission. He currently serves on the Board of several companies and offers consultancy services on issues related to direct taxes.



## **A.K. Shiva Kumar (Treasurer)**

is a development economist and professor. He teaches various courses at Harvard University, Indian School of Business and the Young India Fellowship. He served as the Director of the International Centre for Human Development, New Delhi. In addition to serving as an advisor to UNICEF India, he was a member of India's National Advisory Council. He is a recipient of the MacArthur Fellowship, Mason Fellowship and the Certificate of Excellence in Teaching from Harvard University.



## **Prof. Ramaswamy Sudarshan (Member)**

has had distinguished careers in the domains of research, development programming and governance. He has a Master's degree in Economics from the Delhi School of Economics and a Master's degree in Politics from the University of Oxford. He worked with UNDP from 1991 to 2011. In 2012, he joined the O.P. Jindal Global University as the founding Dean of the Jindal School of Government and Public Policy. He has an impressive track record of publications comprising books, articles and UN policy reports, reflecting his interdisciplinary research, teaching and policy experience in development programmes, human development, law, governance, institutions and policy.



### **Bharati Chaturvedi (Member)**

is an environmentalist and writer. She is the founder and director of Chintan Environmental Research and Action Group. Bharati has served on various committees of the Government of India, including the Expert Committee on Plastic Waste set up by the Ministry of Environment and Forests to finalize rules for plastic waste handling, and a Task Force for social security for the informal sector set up by the Ministry of Labour and Employment. She has also been involved in consultations about the Indian government's Hazardous Waste Strategy and Electronic Waste Rules. Bharati has a Master's degree in history from Delhi University, and a Master's in international public policy from the School of Advanced International Studies at Johns Hopkins University. She is a Leadership in Environment and Development (LEAD) Fellow and has previously received the Sarai Urban Fellowship. She also serves on the board of several non-profit organisations in India.



### **Sunita Narain (Director General)**

has been with the Centre for Science and Environment since 1982. In her years at the Centre she has worked both to analyse and study the relationship between environment and development and to create public consciousness about the need for sustainable development. Her research interests range from global democracy, with a special focus on climate change, to the need for local democracy where she has worked on forest-related resource management and water issues. She serves on the boards of different organisations and on governmental committees and has spoken at many forums across the world on issues of her concern and expertise. Sunita Narain has devoted a great deal of her time to develop the management and financial support systems needed to make CSE strong and sustainable. She has greatly contributed to the institution of management systems that ensure that CSE produces quality work consistently.



### **Jagdeep Gupta (Member)**

is currently the Executive Director, Planning and Operation. She brings a rare and befitting mix of a pure science background with a degree in management, indispensable to understanding the nature of work and the ethos behind an organization like CSE. Over the years she has shown her excellence in acquiring the best talents, developing a wholesome system of monitoring the research outcomes, providing the best infrastructural facilities, developing a wide array of important contacts, and widening the outreach of CSE's research publications. Her forte has been her human management skills, which gives her the edge to handle problem situations with a balanced and unbiased approach. Needless to say, it requires a lot of grit and tenacity to manage so many divergent verticals, which she does with immense ease. She stands as a strong pillar with huge institutional memory and has great contributions to the growth of CSE in many different ways.



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