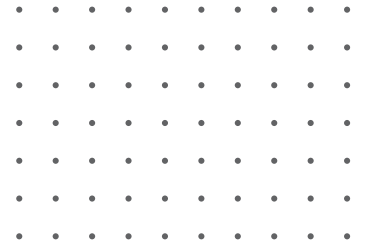




DOON CANTT SWACHHTA CHAUPAL



A CONCLAVE ON
WASTE MANAGEMENT | TECHNOLOGY | CIRCULARITY

FEBRUARY 3 & 4, 2023



CONCLAVE REPORT 2023

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ACKNOWLEDGEMENT

Dehradun Cantonment Board acknowledges the support provided by each of its team members towards the success of the first-ever Doon Cantt Swachhta Chaupal, 2023, a two-day summit focusing on waste management, technology, and circularity.

We express our gratitude to the Hon'ble Governor of Uttarakhand Lt. Gen Gurmit Singh PVSM, UYSM, AVSM, VSM (Retired), who graced us on Day 1 as Chief Guest. We also profusely thank Hon'ble Minister of Urban Development, Government of Uttarakhand, Shri Premchand Agrawal, who was the Chief Guest in the concluding session. Hon'ble Minister of Agriculture, Soldier Welfare and Rural Development, Government of Uttarakhand, Shri Ganesh Joshi presided over the closing ceremony, while Hon'ble MLA, Smt Savita Kapoor was present as a special guest. We are grateful to them for gracing the event with their presence.

We also acknowledge the presence of fifty-one companies, startups and self-help groups from all over India, who came and showcased their products and technology in waste management.

We are also grateful to our panelists and representatives of several Rural and Urban Local Bodies that were present and gave their valuable inputs during discussions. A big thank you to the students and teachers of schools in the cantonment, who presented folk dances and street plays and kept the audience engaged.

Gratitude to Saahas Foundation, which helped us realize our commitment to make this a zero-waste event.

A big thank you also to the students of Graphic Era University, who worked as volunteers and managed the registration stall and made a significant contribution to the overall smooth running of the summit.

We are also thankful to our knowledge partner Social Development for Communities (SDC) Foundation for its support in organising the event, and for producing this report.

DOON CANTT SWACHHTA CHAUPAL: THE AGENDA

Once known for its trees, canals, colonial-style homes and a laid-back attitude, Dehradun is now a big, busy town on the cusp of becoming an even bigger bustling city. Ensuing challenges: rising pollution levels and unprecedented amount of waste generation. The capital of Uttarakhand isn't alone in this. The entire hill state is grappling with mountains of trash being generated. Studies show that 400 to 500 tonnes of daily solid waste is generated daily in the capital town of Dehradun itself.

Local residents and a floating population of pilgrims and tourists contribute to this ever-increasing solid waste. This challenge of waste is not only hazardous to our soil, rivers and the air we breathe, but will also be counterproductive from an economic point of view since it mars the beauty of our state that has, until now, been called Dev Bhoomi, land of the Gods. In other words, waste management is no longer something that can be wished away, ignored or put on the backburner. It has to be handled in the here and the now.

And it is in the here and the now that Dehradun Cantonment Board addressed the clean up of its Army Grounds. The result: Several kilograms of plastic waste in the form of bottles, multi-layer plastic packets, and other plastic trash. Instead of handing it over for a landfill, the Cantonment leadership explored ways to recycle this plastic. Eco-bricks were formed by filling up plastic bottles with plastic bags, which were then used to make platforms around trees, benches, fences around flower beds, and so on. In partnership with a private company, this plastic was also used to make a jogging track with tiles and paver blocks, and even an overhead cover for the jogging track.

This journey drove home the point that more needs to be done in terms of solid waste management (SWM) and extend it beyond the Cantonment area. And thus, the seed of Chaupal was sown and took the form of a two-day summit, the first of its kind in the state capital. With encouragement from political leadership and a commitment to go beyond the challenge of SWM, the agenda was decided as one that explores ways to manage waste in a sustainable way and become a platform for stakeholders in the space to share information and technological know-how. With a focus on waste management, technology and circularity, the summit doubled as an expo for companies and organisations to showcase their contribution.



SWACHHTA CHAUPAL SCHEDULE

Friday, 3rd Feb 2023

Session	Details
10.30 AM - 11.30 AM Inauguration	<p>Chief Guest : Lt. Gen Gurmit Singh : PVSM, UYSM, AVSM, VSM (Retired) - Hon'ble Governor, Uttarakhand</p> <p>Guest of Honour : Shri Ajay Sharma, Director General - Defence Estates</p> <ul style="list-style-type: none"> → Shri Abhinav Singh, CEO Dehradun Cantonment Board: Welcome and Context Setting → Swachhta Ka Sandesh (Nukkad Natak) → Brig Anirban Datta : Sena Medal, Station Commander & President Cantonment Board Dehradun / Landour → Swachhta Ki Pukar (Cantt Girls Inter College School Swachhta Song) → Lt. Gen Gurmit Singh : PVSM, UYSM, AVSM, VSM (Retired) - Hon'ble Governor, Uttarakhand → Vote of Thanks
12.00 Noon - 01.00 PM Panel Discussion One	<p>Solid Waste Management in Uttarakhand</p> <p>Moderator : Shri Anupam Trivedi, Uttarakhand Bureau Head, TV 18 Broadcast Limited</p> <p>Panelist One : Brig Anirban Datta : Sena Medal, Station Commander and President Cantonment Board Dehradun / Landour</p> <p>Panelist Two : Shri Roshan Raturi, Chairman, Muni Ki Reti Nagar Palika, Uttarakhand</p> <p>Panelist Three : Shri Nitesh Chandrakar, Technical Advisor, GIZ Project Aviral</p> <ul style="list-style-type: none"> → 10 minutes for audience Q&A
02.30 PM- 03.45 PM Panel Discussion Two	<p>Swachhta Technologies and Alternatives : Opportunities and Challenges</p> <ul style="list-style-type: none"> → Swachhta Ka Sandesh (Nukkad Natak) → Swachhta Ki Pukar (Cantt Girls Inter College School Swachhta Song) <p>Moderator : Vaidya Ms. Shikha Prakash, Co-Founder, Valley Culture</p> <p>Panelist One : Shri Rohit Kumar, Advisor, ELEFO Cleantech Private Limited</p> <p>Panelist Two : Shri Sumedh Bhoj, Director, Spruce Up Industries Private Limited</p> <p>Panelist Three : Shri Nitin Srivastava, Co-Founder & Chief Marketing Officer, Shayna EcoUnified India Private Limited</p> <ul style="list-style-type: none"> → 10 minutes for audience Q&A

Saturday, 4th Feb 2023

Session	Details
10.30 AM - 11.30 AM	Swachhta Knowledge Session
Chaupal Pe Charcha	<p>Shri Abhinav Singh, CEO Dehradun Cantonment Board: Welcome and Context Setting</p> <p>Shri Abhishek Rajvansh, Joint Director and Head, CIPET Uttarakhand</p> <p>Shri Navneet Pande, IAS, Director, Urban Development Directorate, Govt of Uttarakhand</p> <p>Shri Ravi Pandey, Superintendent Engineer, Urban Development Directorate, Uttarakhand</p> <p>→ 10 minutes for audience Q&A</p>
11.30 AM - 12.35 PM	The Emerging Landscape of Swachhta Start Ups & Innovations
Panel Discussion Three	<p>→ Swachhta Ka Sandesh (Nukkad Natak)</p> <p>Moderator : Dr. Sachin Ghai, Director, Technology Business Incubator, Graphic Era University</p> <p>Panelist One : Ms. Khusboo Singh, Founding Member, Pad Care Labs</p> <p>Panelist Two : Ms. Kalpana Panwar, Manager Sustainability Solutions, Recykal</p> <p>Panelist Three : Shri Ankit Tripathi, Founder, Uneako-Make Planet Happy</p> <p>→ 10 minutes for audience Q&A</p>
01.00 PM - 02.05 PM	Insights in the Lives of Swachhta Workers
Panel Discussion Four	<p>→ Swachhta Ki Pukar (Cantt Girls Inter College School Swachhta Song)</p> <p>Moderator : Ms. Prerna Raturi, Lead - Research and Documentation, SDC Foundation, Uttarakhand</p> <p>Panelist One : Shri Vinod Kumar, Safai Supervisor, Dehradun Cantonment Board</p> <p>Panelist Two : Ms. Maya Devi, Safai Mitra, Dehradun Cantonment Board</p> <p>Panelist Three : Ms. Arti Devi, Safai Mitra</p> <p>Panelist Four : Shri Rajesh Kumar, Safai Mitra</p> <p>→ 10 minutes for audience Q&A</p>
03.00 PM - 04.15 PM	Insights in the Lives of Swachhta Workers
Valedictory Session	<p>Chief Guest - Shri Premchand Aggarwal, Hon'ble Urban Development Minister, Government of Uttarakhand</p> <p>Guest of Honour - Shri Ganesh Joshi, Hon'ble Soldier Welfare, Agriculture & Rural Development Minister, Government of Uttarakhand</p> <p>Guest of Honour - Ms. Savita Kapoor, Hon'ble Member of the Legislative Assembly, Government of Uttarakhand</p> <p>→ Shri Abhinav Singh, CEO Dehradun Cantonment Board: Welcome and Summary</p> <p>→ Swachhta Ka Sandesh (Nukkad Natak)</p> <p>→ Brig Anirban Datta : Sena Medal, Station Commander & President Cantonment Board Dehradun / Landour</p> <p>→ Ms. Savita Kapoor, Hon'ble Member of the Legislative Assembly, Government of Uttarakhand</p> <p>→ Shri Ganesh Joshi, Hon'ble Soldier Welfare, Agriculture & Rural Development Minister, Government of Uttarakhand</p> <p>→ Shri Premchand Aggarwal, Hon'ble Urban Development Minister, Government of Uttarakhand</p> <p>→ Vote of Thanks</p>
4.15 PM Onwards	Chaupal Closure and Group Photographs



HAPPENINGS

DAY 1

- *Inaugural Session*
- *Panel Discussion One*
- *Panel Discussion Two*

INAUGURAL SESSION

Chief Guest:

LT. GEN GURMIT SINGH
PVSM, UYSM, AVSM, VSM (Retired)
Hon'ble Governor, Uttarakhand



Known for his military deftness and proficiency in the Indian Army, Lt Gen Gurmit Singh, PVSM, UYSM, AVSM, VSM (Retired), is a scholar on defense matters. While serving the country, he also studied the subject at Jawahar Lal Nehru University, National Defence University Washington, and National Defence University in Taipei, Taiwan. As an Adjutant General of Indian Army, he has worked on human resource management and also focused on information technology, training, manpower policy and planning, recruitment, selection, motivation, morale, health, discipline, legal issues, welfare, resettlement and issues related to ex-servicemen, during his various postings.

He has been awarded with Four Presidential Awards and two Commendations by Chief of Army Staff during his nearly 40 years of service in the Army; Param Vishisht Seva Medal, Uttam Yudh Seva Medal, Ati Vishisht Seva Medal and Vishisht Seva Medal. He also served in Banbasa in Uttarakhand during his tenure in the army.



Cleanliness is next to godliness, and this Chaupal is a step in the right direction when it comes to sensitizing people about waste management. With more and more people coming to Uttarakhand to seek spirituality and peace of mind, it is crucial to ensure that we are on top of our waste management game. I also congratulate the 51 companies that have come here and showcased their prowess in product technology that will help us battle waste management in the best way.



Guest of Honour:
SHRI AJAY SHARMA
Director General – Defence Estates



Shri Ajay Sharma has been the CEO of several cantonment towns and has expertise in public policy management, urban planning and project execution, including financial management of Urban Local Bodies (ULBs) and all aspects related to ULBs. He also has apex and field level knowledge in government land management.



I congratulate the Doon Cantt Board for this unique initiative. You have brought all stakeholders in waste management under one roof. Going forward, we should all take a pledge that we will do our bit to keep our surroundings clean and work towards a clean and green India.

**BRIG ANIRBAN DATTA, Sena Medal
Station Commander and President,
Cantonment Board Dehradun and Landour**



Brig Anirban Datta has initiated several innovative projects to improve the quality of life of the military and civil populace. By ensuring rain water harvesting and facilitating solar trees, strictly monitoring solid waste management, Brig Datta has encouraged conservation of resources. He has also conceptualized and created an all-weather running track out of plastic waste food packaging material, thereby integrating the mission mandates of the Swachh Bharat Abhiyan and Fit India Movement.

“

The idea for the Chaupal took seed in September 2021, when we cleaned this Army Ground of the overgrowth and recycled the mounds of plastic trash we collected. The running track and its overhead cover, the platforms around trees, are all made of recycled plastic. Due to our efforts, we have been awarded the Best Green Military Station.





NOTE: Dr DN Yadav from Principal Directorate, Defence Estates, Lucknow was also present in the Inaugural Session

PANEL DISCUSSION ONE

SOLID WASTE MANAGEMENT IN UTTARAKHAND



Panelist 1

Brig Anirban Datta
Sena Medal
Station Commander
and President,
Cantonment Board
Dehradun, Landour



Panelist 2

Shri Roshan Raturi
Chairman,
Muni Ki Reti
Nagar Palika,
Uttarakhand



Panelist 3

Shri Nitesh Chandrakar
Technical Advisor,
GIZ Project Aviral



Moderator

Shri Anupam Trivedi
Bureau Head,
Uttarakhand
TV 18 Broadcast Limited

Panelist

BRIG ANIRBAN DATTA: SENA MEDAL - Station Commander and President
Cantonment Board Dehradun, Landour

Panelist

SHRI ROSHAN RATURI - Chairman, Muni Ki Reti Nagar Palika, Uttarakhand

Chairman of Muni Ki Reti Nagar Palika, Uttarakhand, Shri Roshan Raturi has worked in the field of social change since his student days. It started with forming a youth blood donation group. He was elected as a Gram Panchayat member in 2003, and became the first literate Pradhan of Uttarakhand's fifth largest Gram Panchayat of Dhalwala in 2008. This was the first Gram Panchayat of Uttarakhand where cleaning staff were employed, street lights were installed, and arrangements for repairing lights and payment of electricity bills with public cooperation was made. In 2018, Raturi was elected as Municipal President of the Municipality of Muni ki Reti, Dhalwala.

Panelist

SHRI NITESH CHANDRAKAR - Technical Advisor, GIZ Project Aviral

Environment policy and resource efficiency advisor plastic waste management, GIZ Project Aviral, Shri Nitesh Chandrakar has worked extensively in the field of solid and plastic waste management and circular economy. A civil engineer with a masters in urban planning, Chandrakar has worked with organisations such as UNDP, FINISH Society, Aga Khan Development Network, and has helped teams plan and implemented waste management projects, which had been funded by those such as the European Union, Government of Netherlands, CSR, NMCC, and others.

Moderator

SHRI ANUPAM TRIVEDI, Uttarakhand Bureau Head, TV 18 Broadcast Limited

A bilingual multimedia journalist with experience of more than two decades in handling a wide range of subjects, Anupam Trivedi has an in-depth understanding of North India's socio-political dynamics, and is equally well-versed with new media and digital news operations. He is engaged in a leadership role and heads the Uttarakhand state bureau (north India) of TV18 Broadcast Ltd for its TV and digital verticals. Mentoring is a part of the job chart that he enjoys equally.



KEY QUESTIONS

1. What learnings are possible from the armed forces way of working and living for civilian life to improve the levels of cleanliness in Uttarakhand?
2. Muni Ki Reti has always been a standout performer in the Swachh Survekshan. What is the recipe of success?
3. With reference to Project Aviral, how can projects be made sustainable after their expiry period?
4. How can the people of Uttarakhand be mobilized to make a difference when it comes to not only waste management but waste generation?



INSIGHTS FROM PANELISTS

Brig Anirban Datta: “Disseminating information, education and communication are key to not only waste management but waste generation as well. It is slightly easier for us to carry out our efforts towards SWM in the cantonment since it is a military area and we can take better disciplinary action against wrongdoing. Having said that, it is also true that all it takes is the will to make a difference. Once you know what to do, it is only a matter of how to.”

Shri Roshan Raturi: “Muni ki Reti has a floating population of anywhere between 1 lakh to 2.5 lakh on a daily basis. The result: Used chips packets, bottles, glasses and so many other forms of plastic. We create awareness about the importance of collecting all waste and segregating at source. More importantly, we are also sensitising the public about using lesser plastic products. I keep my eyes and ears peeled for anything I can learn and implement in my region. The hunger to learn anything new should always be there. One of our biggest success stories is how we have created leach pits or soakaway pits under roads, which has not only addressed the flooding of roads but has also improved groundwater levels. Like I said, where there is a will, there is a way.”



INSIGHTS FROM PANELISTS

Shri Nitesh Chandrakar: *“Our motive is to stop plastic waste from entering the River Ganga. For this, we have to work with the people of the towns through which the river flows. A working model has been created after proper research and baseline surveys, and includes waste collection, segregation and processing. We have to relook at the plastic ban and make it more relevant. When it comes to waste segregation, I am happy to report that it is working in our favour. My learning is that it will take time and we need to work patiently with the public on this.”*



TAKEAWAYS

1. Any initiative in waste management will be successful only when the community believes in it and contributes to its success.
2. Information, awareness and communication are key to the success of waste management projects.
3. Those designing waste management models need to keep a keen ear to the ground when it comes to what will work, what will not, and what will take time. Constantly learning, unlearning and relearning is key.

PANEL DISCUSSION TWO

SWACHHTA TECHNOLOGIES AND ALTERNATIVES: OPPORTUNITIES AND CHALLENGES



Panelist 1

Shri Rohit Kumar
Advisor, ELEFO Cleantech
Private Limited



Panelist 2

Shri Sumedh Bhoj
Director,
Spruce Up Industries
Private Limited



Panelist 3

Shri Nitin Srivastava
Co-Founder & CMO,
Shayna EcoUnified India
Pvt Ltd



Moderator

**Vaidya Ms. Shikha
Prakash**
Co-Founder,
Valley Culture

Panelist

SHRI ROHIT KUMAR - Advisor, ELEFO Cleantech Private Limited

With more than two decades of experience in aviation, manufacturing, renewable and non-renewable energy and wastewater sectors, Rohit Kumar is currently working as Director, Elefo Biotech Pvt Ltd, a company he founded. Elefo mainly works in the wastewater treatment segment and has associations with BARC, Duke University, University of South Florida, and is also a commercial partner with Bill and Melinda Gates Foundation in India. With DRDO, Elefo is involved in joint development of second-generation biodigester. A chemical engineer, Kumar has a post-graduate diploma from Indian Institute of Management, Indore.

Panelist

SHRI SUMEDH BHOJ - Director, Spruce Up Industries Private Limited

Committed to India's growth story, Sumedh Bhoj, Co-Founder and Chief Revenue Officer (CRO) of Spruce Up, comes with a rich experience of working with several MNCs. His work led to him working closely with the South Delhi commissioner's office, the Ministry of Housing and Urban Affairs (MoHUA), the Prime Minister's Office (PMO), and various officials of Government eMarketplace (GeM) to create a new category for vacuum-based waste collection. Bhoj has a bachelor's degree in international business and a master's degree in business management from S P Jain School of Global Management, Singapore.

Panelist

SHRI NITIN SRIVASTAVA - Co-Founder & Chief Marketing Officer, Shayna EcoUnified India Pvt Ltd

Nitin Srivastava is the Co-founder and Chief Marketing Officer of Shayna EcoUnified India Pvt Ltd, and has worked extensively for the past six years in the field of plastic waste management. The result: he has been instrumental in converting 16,00,000 kg of plastic waste into products for infrastructure development. Armed with a law degree, Srivastava is a firm believer of the zero-plastic-waste-to-landfill-and-water-bodies concept. Prior to Shayna, he worked in the field of marketing for leading consumer brands, and has a master's degree in management.

Moderator

VAIDYA MS. SHIKHA PRAKASH, Co-Founder, Valley Culture Limited

A third-generation Ayurvedic physician and an entrepreneur based in Uttarakhand, Shikha Prakash has worked as an Ayurvedic consultant with various reputed hospitals and is a director and senior ayurvedic consultant at Padaav Speciality Ayurvedic Treatment Centre. She co-founded Valley Culture India in 2019 to bring ethically sourced Himalayan food directly from the local farmers. Valley Culture works with 5000 women farmers from the hills of Uttarakhand and supports their livelihoods. She has worked on different projects as the Health Advisor of the Ex-Governor of Uttarakhand. She is also the Coordinator of Startup Flo Uttarakhand.

KEY QUESTIONS

1. How has the space of waste management technology changed in the past three to five years?
2. What are some of the technological arms – AI, robots, internet of things – that promise to ease the pangs of waste management?
3. What are some of the limitations you face in this space?

INSIGHTS FROM PANELISTS

Shri Rohit Kumar: “Waste collection is the most critical part of waste management. And there is considerable awareness about the importance of how this waste should be handed over among a large part of the urban public, I feel. Having said that, there is a lot that needs to be done in terms of addressing waste in water. The National Green Tribunal is doing its bit as well and governing bodies should ensure that those norms be implemented. It should also be understood that technology for, say, treating water and bringing BOD* between 10-30 is going to be more expensive. And unless those who don't follow these norms are not penalised, we will continue to have issues and obstacles.”



INSIGHTS FROM PANELISTS

NOTE



BOD, or bio-chemical oxygen demand is calculated based on the number of organisms in the sample, multiplied by their metabolic rate. The lower the BOD, the safer the water is to consume.

Shri Sumedh Bhoj: *“Technological intervention is critical in waste management. It provides our safaaai karmacharis a safer, healthier and less risky work environment and provides dignity to the work that they do. At the same time, their productivity increases manifold. Having said that, it is also true that considerable inertia exists amongst governing bodies when it comes to embracing technology. And like Rohit said, the problem is not at the policymaking level but in implementing these policies.*

There is a need to not look at waste with disgust; I proudly call myself a kachrawala. While awareness and individual responsibility are key to waste management, I also feel that there should be social stigma against littering and not managing one’s own household waste. Because how is it that the same person who throws bottles from a moving car in India follows waste disposal rules in a western country?”

Shri Nitin Srivastava: *“Unless waste is segregated, it is of no use – it can neither be recycled, nor repurposed. In my experience of working with plastic waste, it is still a challenging space and too many resources are used to source it. Like Sumedh pointed out, there were initial reservations when it came to working with government organizations but when your product and service is good, they buy into it. On a community level, the way we handle and treat waste is so strange – one minute we are eating chips out of a packet and the next minute, we throw it as trash and won’t have anything to do with it. I say: stop looking at it as trash but as an opportunity to recycle and upcycle it. Additionally, companies should be pushed to use products that are made with recycled waste and stop promoting the use of fresh plastic.*

When it comes to the future of tech in waste management, I’d say things are looking up. Some first-world countries have already started implementing AI. Smart bins are being used and once trash reaches up to a marked level, assets are mobilized to manage it via a mere notification. Medical and hazardous waste is being managed with the help of robots.”



TAKEAWAYS

1. *Governing bodies and organizations working in the area of waste management should be more open-minded to technology in the field for better work conditions of sanitary workers as well as increased productivity.*
2. *NGT norms should be implemented more stringently and technology that helps reach those benchmarks should be embraced, even if it is more expensive at present.*
3. *It is time that waste is looked upon as a resource, and not as trash.*



HAPPENINGS

DAY 2

- *Swachhta Knowledge Session*
- *Panel Discussion Three*
- *Panel Discussion Four*
- *Valedictory Session*

SWACHHTA KNOWLEDGE SESSION

SHRI ABHINAV SINGH
Chief Executive Officer,
Dehradun Cantonment Board



Abhinav Singh is the CEO of Dehradun Cantonment Board, as well as Landour Cantonment Board in Mussoorie. A 2015 batch officer of Indian Defence Estates Services (IDES), he was earlier posted in Jodhpur, and before that in Ayodhya Cantonment Board. Singh is a resident of Haridwar and did his BTech from Pantnagar, and a post-graduate course from NITIE, Mumbai

“

We need private companies to play as big a role as government organizations in overcoming the challenge of waste management. And let's not forget the citizens of Uttarakhand. I congratulate companies such as Padcare and Shayna, which are showcasing their technology at the Chaupal today; while the latter has patented technology to recycle used sanitary napkins, Shayna is doing some ground-breaking work in the world of making structural tiles and pavement blocks from recycled plastic. We need to encourage such companies and more, to explore the unlimited possibilities in the space of waste management.

SHRI ABHISHEK RAJVANSH
Joint Director and Head, CIPET Uttarakhand



Abhishek Rajvansh is Joint Director & Head at Central Institute of Petrochemicals Engineering & Technology (CIPET): Centre for Skilling and Technical Support, Dehradun. He has worked at CIPET's Panipat and Bhopal Centre prior to being attached to the Dehradun Centre. He has an experience of 14 years working at CIPET in the area of processing and testing. An engineer by qualification, Rajvansh also has a post-graduate diploma in Plastics Engineering from CIPET.

“

Plastic has so many good uses but due to our mistreatment of the same, we have changed this boon into a bane. Remember, it was plastic PPE kits and masks that saved us from Coronavirus. In today's scenario, it is the single-use plastic that we should address and learn to do away with. Waste segregation is a big piece in this puzzle. If we can segregate all the seven types of plastic and know how to recycle them, we can overcome this challenge. As citizens of this country, I feel we need to stop littering and take responsibility for our actions and not just blame governments.

SHRI NAVNEET PANDE

IAS, Director, Urban Development
Directorate, Govt of Uttarakhand



Currently working in the Government of Uttarakhand as Director and Additional Secretary, Urban Development Uttarakhand, Mr Navneet Pande is from the 1995 batch of Indian Administration Services. He also holds the post of additional secretary to the Honourable Chief Minister of Uttarakhand.



This Chaupal is such a unique initiative where we have “Koode ki numuish” (exhibiting trash). This is a fundamental step in a change of perception where waste is concerned. We also need to change this perception that you can dump waste anywhere except in my backyard. When it comes to SWM guidelines for waste dumping, I feel more needs to be done to sensitize people about how modern these dumping sites are and not smelly and teeming with diseases as they used to be. Urban local bodies will have to take leadership position here and work in this direction in a big way. I agree that legacy waste is a challenge and those landfills can be a health hazard and not very welcome. But a waste plant made today adheres to international standards.

SHRI RAVI PANDEY

Superintendent Engineer, Urban
Development Directorate, Uttarakhand



Shri Ravi Pandey is presently working as Superintending Engineer/ Nodal Officer AMRUT 2.0 and SBM 2.0/ SWM, UDD, Uttarakhand. He has vast international exposure from Chiangmai (Thailand) Urban Agriculture Interface, varied urban development topics in Singapore, Malaysia and Thailand, low-cost sanitation related to septage in the Philippines and Plastic Waste Management in Germany.



The fact that we are a developing country and densely populated, we need to work aggressively when it comes to circularity and use of technology in waste management. What’s more, we need everyone’s participation to succeed. Segregation is the sutra for successful waste management and we need to pay those who work in this space, adequately. We need to make it lucrative for them to take it up.

TAKEAWAYS



1. Waste segregation is the sutra.
2. Waste management plants are no longer the health hazard they used to be, if built according to international standards.
3. We need to start looking at waste as a resource, and not a problem.

PANEL DISCUSSION THREE

THE EMERGING LANDSCAPE OF SWACHHTA STARTUPS AND INNOVATIONS



Panelist 1

Ms. Khushboo Singh
Founding Member,
Pad Care Labs



Panelist 2

Ms. Kalpana Panwar
Manager Sustainability
Solutions, Recykal



Panelist 3

Shri Ankit Tripathi
Founder,
Uneako



Moderator

Dr. Sachin Ghai,
Director, Technology
Business Incubator,
Graphic Era University

Panelist

MS. KHUSHBOO SINGH - *Founding Member, Pad Care Labs*

Khushboo Singh has been working in the field of Menstrual Hygiene since 2015. In this duration, she has advocated for and facilitated a space for safe and hygienic menstrual periods in several corporations, schools and workplaces. This management graduate has also conducted training sessions for basic menstrual hygiene in schools and colleges in Delhi-NCR, as well as in the rural areas of Manesar and Sonipat. In her association with Padcare, Singh is pushing the cause of sustainable solutions for menstrual hygiene and protecting the ecosystem from plastic.

Panelist

MS. KALPANA PANWAR - *Manager Sustainability Solutions, Recykal*

Kalpana Panwar is Manager, Sustainability & Govt Relationships, Recykal, a circular economy marketplace, and offers software solutions for the waste management ecosystem. A policy development consultant with a decade of experience in multiple sectors with the government, Panwar has also worked as policy consultant with ministries in the Government of India and with multiple state governments. Presently she's working towards nudging government policy to enable a robust ecosystem for waste management in India.

Panelist

SHRI ANKIT TRIPATHI - Founder, Uneako

Along with his brother, Ankit Tripathi started Uneako, which makes zero-waste, sustainable products from waste and earth-friendly materials. The urge to do something for the environment happened when a landfill near his home made him realize the importance of waste management. This mechanical engineer was selected in Top 15 Changemakers across the Globe by Audi Environmental Foundation, and also made it to the Top 15 Startups across India to represent Uneako in Dubai Expo 2021. He also featured in Horses Stable, India's first reality funding show on Aaj Tak channel.

Moderator

DR. SACHIN GHAI, Director, Technology Business Incubator, Graphic Era University

Dr Sachin Ghai is Director of Technology Business Incubator at Graphic Era University. An academican, trainer, start-up mentor, and a business and life coach with over two decades of experience, his areas of interest include economics, management, strategy, organizational behavior, leadership, innovation, communication, soft-skills, and personality development. Ghai has mentored several startups and enabled aspiring entrepreneurs and budding innovators in developing their ventures and upscaling them. He has a doctorate economics in the area of Urban Development and Management, Urban Dynamics & Socio, Economic, Environmental Impact Assessment, and Inclusive & Sustainable Development Management of Cities.



KEY QUESTIONS

1. What makes the Swachhta management space so exciting for startups? Conversely, what might keep them away?
2. What are some of the limitations you see in this space?
3. What kind of support would you like at the policy-making level and from the government?



INSIGHTS FROM PANELISTS

Ms. Khushboo Singh: "To think that the first sanitary napkin I used must still be there somewhere is a scary thought, but it's true. Padcare is a solution for such sanitary waste in that we segregate the cellulose from the plastic – the plastic is sent to the plastic recyclers, while the cellulose is used to make paper. Companies such as Padcare are exactly why we need the contribution of youth in the waste management industry. They have a unique way to look at problems and come up with solutions."



INSIGHTS FROM PANELISTS

Ms. Kalpana Panwar: *“Recykal’s Plastic Deposit Refund System has made plastic waste lucrative – single-use plastic bottles to be precise. With lakhs of pilgrims visiting the holy Kedarnath Temple also means unaccounted amounts of trash strewn all over the hillsides. Putting QR codes on water bottles and selling them for Rs 10 more meant the bottle returnee got her Rs 10 back on depositing the bottle at any of the collection centers. If the pilgrim didn’t, anyone else who did it got the money. This turned the bottles from waste to money. It has worked really well, and we are exploring ways to use the same strategy on other single-use plastic items.”*

Mr Ankit Tripathi: *“It wasn’t easy convincing my parents that I want to work with waste material and make sustainable eco-friendly products. They focused only on the words “working with waste”. My brother and I sold our products in metros on our way to college and now we are creating ripples in the space of eco-friendly products, be it toothbrushes, handbags and stationary, to bamboo speakers.”*



TAKEAWAYS

1. The youth must be encouraged to explore the startup space in waste management and its circularity.
2. Incubation centers and government handholding will go a long way with not only funding projects but helping them scaleup.
3. Startups in waste management need more platforms to showcase their talent, products and technology.

PANEL DISCUSSION FOUR

INSIGHTS IN THE LIVES OF SWACHHTA WORKERS


Panelist 1
**Shri Vinod
Kumar**
*Supervisor, Safai
Karamcharis,
Dehradun
Cantonment Board*

Panelist 2
**Ms. Maya Prem
Kishan**
*Safai
Karmachaari,
Dehradun
Cantonment*

Panelist 3
**Shri Rakesh
Kumar**
Sewer Worker

Panelist 4
Ms. Aarti
Waste Picker

Moderator
Ms. Perna Raturi
*Lead-Research and
Documentation, Social
Development for
Communities*
Panelist
SHRI VINOD KUMAR - Supervisor, Safai Karamcharis, Dehradun Cantonment

Forty-nine years old, Vinod Kumar is a supervisor of Safai Karmacharis in Dehradun Cantonment Board. He was promoted 15 years ago, before he was a karmachari himself. Kumar started his working life as a daily wage laborer. Sheer grit, hard work and resilience has brought him where he is today. His family comprises a wife, two daughters and a son, who is with the Nagar Palika. Kumar can read and write and has studied till class six or seven, he says.

Panelist
MS. MAYA PREM KISHAN - Safai Karmachaari, Dehradun Cantonment

Maya knows her age only by calculating that she will retire in 2026. A Safai Karmachari with a pakki naukri (stable job), she is grateful for life despite all the hardships she had to bear. A permanent job is a major reason for her gratitude. Her husband died when her eldest son was only thirteen years old. It was her job that ensured she survived. Although illiterate, she brought up her four sons on her own, and earns the most in the family. After retirement, she plans to continue earning.

Panelist
SHRI RAKESH KUMAR - Sewer Worker

Rakesh Kumar is 28 years old and works freelance, answering calls from houses in Dehradun to unclog choked sewer lines. He does it with hand, bamboo or, if he can afford, a machine he takes on rent for a few hours. Illiterate, Rakesh has been doing this for about nine years, and also works as a daily wager if there is no work. He is married and has two toddler children.

Panelist**MS. AARTI** - Waste Picker

For 25-year-old Aarti, the day starts early at 5 am and she works until 4 pm, and earns about Rs 100-200 a day. Originally from Bihar, Aarti stays in Dehradun with her husband who is a daily wager, and her son, who wants to be a car mechanic when he grows up.

Moderator**MS. PRERNA RATURI**, Lead-Research and Documentation, Social Development for Communities

A journalist and independent writer-editor, Prerna Raturi has written for newspapers and magazines such as The Indian Express, Business Standard, Hindustan Times, The Hindu, Entrepreneur, Business Today, and others. She also helps organisations strategise their content and documentation. At SDC, she is Lead for Research and Documentation, two areas she is passionate about, and considers herself a learner for life.

**KEY QUESTIONS**

1. What is a regular day like for you?
2. Have things changed for you since you joined this profession in terms of money, respect, working hours etc.
3. What would you like the government to do for you?

**INSIGHTS FROM PANELISTS**

Shri Vinod Kumar: *"I like my work in that I get respect and recognition for what I do, and that inspires me to work harder. Things have changed a lot for safai karmacharis in the past decade or so. Earlier, people wouldn't even let us enter their homes; now, many encourage us to sit with them and drink a cup of tea. As far as waste generated is concerned, there is far more plastic waste that is generated now than ever."*

Ms. Maya Prem Kishan: *Note: She was extremely shy and nervous and didn't speak at all.*

Shri Rakesh Kumar: *"I do what I do to earn a living. It's not something I look forward to but I have to take care of my family. I have to buy gloves and other protective gear with my own money. I am trying to save money and buy a machine for myself, so that I can clean more sewage pipes, earn better and not risk my health doing it. It will also be less dirty, honestly."*



INSIGHTS FROM PANELISTS

Ms. Aarti: *“Working all day in the open is no joke. I carry my own food but water and toilet are big challenges every day. I try to take as much precaution while picking waste as I can and now am able to make out which waste might have open blades, nails and glass shards. I have to take care of my health because of my son. I do have a few friends in my neighbourhood where I live, otherwise the entire day is spent in silence, moving from one trash pile to another.”*



TAKEAWAYS

1. *The safaai karmacharis and waste pickers need to be given more recognition for what they do and the chasm between them and those producing this waste needs to be reduced.*
2. *The city needs more facilities such as clean toilets and drinking water free of cost for those working in the daily waste management space.*
3. *The safaai karmacharis should be trained on health and hygiene at regular intervals and training programmes to develop their sense of dignity and self-worth.*

VALEDICTORY SESSION

Chief Guest:

SHRI PREMCHAND AGARWAL

**Hon'ble Urban Development Minister,
Government of Uttarakhand**



Shri Prem Chand Agarwal is Urban Development Minister, Uttarakhand, and a member of the Uttarakhand Legislative Assembly from Rishikesh constituency in Dehradun district. Shri Agarwal has been MLA for Rishikesh for three consecutive terms.

“

I hail the Mountain Swachhta Technology Challenge that will prove to be perfect for a geographically-challenged state such as Uttarakhand. At the same time, I want to reiterate the fact that Swachhta Abhiyan will have to be a movement involving the public and it can't be the responsibility of government departments alone.

SHRI GANESH JOSHI

**Hon'ble Soldier Welfare, Agriculture &
Rural Development Minister,
Government of Uttarakhand**



A state Cabinet Minister of the Government of India, Shri Ganesh Joshi is a fourth-time member of the Uttarakhand Legislative Assembly from the Mussoorie constituency in Dehradun district.

“

I urge more facilities be given to our safaai karmacharis and this concept of Chaupal, which is a first of its kind in Dehradun, should continue to be held at regular periods and in different parts of the state. The Urban Development Department, taking a cue from Doon Cantt Swachhta Chaupal, should hold more such events.



NOTE

The **Mountain Swachhta Technology Challenge Hackathon** was unveiled by Shri Premchand Agarwal, Hon'ble Urban Development Minister, Government of Uttarakhand. It is a unique competition calling upon startups, entrepreneurs and students of Higher Education Institutions (HEIs) from across the country to develop innovative solutions to mitigate solid and plastic pollution with special emphasis on the hilly areas in the state of Uttarakhand. Selected start-ups will be groomed by a panel of expert members.

The challenge is targeted at startups and students who will design a machine for picking legacy garbage from valleys and slopes in towns, tourist spots, rural areas and across the mountain states in India.

The goal is to support three start-ups working at the cusp of technology and social innovation to solve Uttarakhand's solid and plastic waste management challenges by improving efficiency of waste management, increasing social impact, improving transparency of waste value chain and reducing the use of single-use plastic.

THEMES (Indicative)

1. Tech-based solution for picking waste from hill slopes.
2. Technological solutions for picking and collecting waste from dumping sites on hill slopes.
3. Technology for disposal of solid, plastic and other kinds of waste from legacy hill dumpsites.
4. Innovative circular economy approaches

OFFERINGS

1. Scale-up of successful prototypes will be facilitated by providing fiscal and logistic support.
2. Support for start-ups with municipalities to facilitate access to waste and experimental grounds.
3. Coaching on developing business cases.
4. Mentoring sessions from industry experts.
5. Pitching session and award ceremony.

PROCESS

1. Launch of Hackathon and start of application submission
2. Application submission closes: An application will be created on Google forms to screen start-ups.
3. Pre-selection: Screening of applications received and selection of start-ups
4. Selection: Start-ups post-mentoring will prepare a 10-minute video pitch for our expert members to judge on a virtual pitch event.
5. Final award ceremony: Start-ups from the selection round will be selected for awards.

PLEDGE

The Chaupal ended with all those present taking the following pledge:

शपथ

1. मैं शपथ लेता /लेती हूं कि उत्तराखंड राज्य को स्वच्छ और सुंदर बनाने के लिए अपने स्तर पर हर संभव प्रयास करूंगा/करूंगी।
2. मैं कूड़ा इधर उधर नहीं फेंकूंगा/फेंकूंगी। सिंगल यूज प्लास्टिक का इस्तेमाल नहीं करूंगा/करूंगी। और अपने घर से ही सूखा और गीला कूड़ा अलग करूंगा/करूंगी।
3. मैं यह भी शपथ लेता/लेती हूं कि वर्ष 2023 में कम से कम 5 लोगों को स्वच्छता मुहिम से अवश्य जोड़ूंगा/जोड़ूंगी।



FEATURED COMPANY

ARAJ FASHION

KEY PERSON

MS. MONIKA - PROPRIETOR

Established in 2018, Araj Fashion is a fast-growing company that manufactures and supplies **100% eco-friendly bags and packaging**, which can be used for advertising, promotion, and marketing. on bags. These bags are made of jute, cotton and a mix of both (juco), and can be used for a variety of purposes -- shopping, beach bags, store cosmetics, wine bottle bags, file folders, laptop bags, ladies' bags, wallets, and for gifting purposes. Free of any chemical colours, these bags are made keeping in mind the highest standards of quality, be it raw material, stitching, designing, and printing. The company specialises in applique work and is known for providing packaging bags to showrooms, malls, and corporations at reasonable prices on short notice. Araj Fashion's clients include Phileo, Neo Kumfort, Metica, Yavi Cosmetic, etc. The company's message to other corporations is: **"Promote your brand creatively, ethically and economically with Araj's co-friendly jute, cotton and juco bags."** Araj also bagged the **Green India Award 2022 for Best Eco-Friendly products in World Environment Expo, 2022.**



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FEATURED COMPANY

ATTERO**KEY PERSON****MR. AASHISH RAINA - MANAGER - BUSINESS DEVELOPMENT**

Attero is India's largest electronic asset management company, and aims to **rethink, redesign, restore and reuse resources from end-of-life electronics and Li-Ion batteries** in an eco-friendly manner. The company has also pioneered clean-tech, assuring safe environment, zero-water waste operations, and complies with EPA norms. A **NASA recognised technology innovator**, Attero has developed disruptive technology that allows it to set up low-cost, eco-friendly, end-to-end e-waste recycling and extraction of rare earth and precious metals.

Attero's aim is to become global leaders in recycling of Li-Ion batteries and towards this aim, it has over twenty patents and best-in-class technology globally, recovering nearly 99% of all metals of the highest quality and putting them back in the economy. The company's Clean e-India is its latest integrated **Consumer Take Back Programme**, to ascertain organised collection, management, and recycling of e-waste in a sustainable manner.

With its 360-degree approach of management of e-waste with India's largest reverse logistics network backed by robust IT solutions, Attero is amongst the seven globally renowned e-waste management companies.



ATTERO RECYCLING FACILITY



ATTERO RECYCLING FACILITY - OVERVIEW



STATE-OF ART MACHINERY



RECYCLING MACHINES



99868 60725



aashishraina@attero.in

<https://attero.in>

FEATURED COMPANY

ECONSCIOUS

KEY PERSON

MS. SONAL SHUKLA - CO-FOUNDER AND CEO

Econscious is a social impact startup, **recycling plastic waste into home decor, public utility and corporate gifting products**. The company is revolutionising the current post-consumer trading ecosystem to create an impactful, effective and efficient collection and recycling model. The company promotes sustainability by providing source segregation waste pickup service. The process is entirely circular and sustainable. The company meets four Sustainable Development Goals with its efforts – Sustainable Cities and Communities, Responsible Consumption and Production, Climate Action, and Life Below Water.

Since its inception, the company has **recycled more than 90,000 kg of post-consumer plastic**, saved more than 83,000 kg of CO2 emission with the recycled plastic, and saved nearly 4,600 cubic meter space at landfills with source collection.

One of the USPs of the company is that it provides customisation as per the requirement of the client. It has done CSR projects for organisations such as HCL Foundation, Humana People to People NGO, Jeevan Stambh, Green Dream Foundation, and others. The company's custom recycle plastic products range has also found favour with companies such as Whistling Woods International, Recity, Yes Full Circle, and Greenobar



RAW MATERIAL COLLECTED FROM COLLECTION CENTERS



COLLECTION BINS MADE FROM RECYCLED MATERIALS



ECOCONSCIOUS PRODUCTS



ECOCONSCIOUS PRODUCTS



9582066095



team.econscious@gmail.com



www.econscious.co.in

FEATURED COMPANY

ELEFO BIOTECH PRIVATE LIMITED**KEY PERSON****MR. ROHIT KUMAR - DIRECTOR**

Elefo Biotech Pvt. Ltd. (EBPL) incorporated in September 2014, is in the business of **decentralized/ portable wastewater treatment systems** and is the largest supplier of AMI to Indian Railways in India. It is also the **ToT holder for Biodigester Technology of DRDE** for manufacture of biodigesters and bio-toilets. Based on the experience of EBPL during the last eight years and considering the fact that there is an urgent need and tremendous scope for new and advanced liquid waste treatment systems, the company has developed new advanced Waste Treatment Systems in collaboration with two reputed universities of the United States.

Elefo has executed over 70 projects in 22 states of India and in one foreign country, and specializes in treatment of any kind of wastewater, ranging from very dilute wastewater to a high strength wastewater coming out of septic tanks. Elefo also has the distinction of being **commissioned Uttar Pradesh's and Chhattisgarh's first Fecal Sludge Treatment (FSTP) plants**.

As a part of collaboration with BMGF in India, Elefo has installed portable wastewater treatment systems in the country. The NEWgenerator portable wastewater treatment system has achieved NGT compliant treatment of high strength wastewater on a consistent basis over the last one year, something which no other system has achieved in the world so far.

Its clients also include Delhi Municipal Corporation, U P Jal Nigam Ltd, defence forces establishments such as ITBP, BSF, and cantonment boards, and public sector entities such as Uranium Corporation of India and SAIL, and private sector corporates like JSL, OMAX, HINDALCO.



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NEPRA RESOURCE MANAGEMENT PVT LTD

KEY PERSON

MR. RONAK VYAS - MANAGER

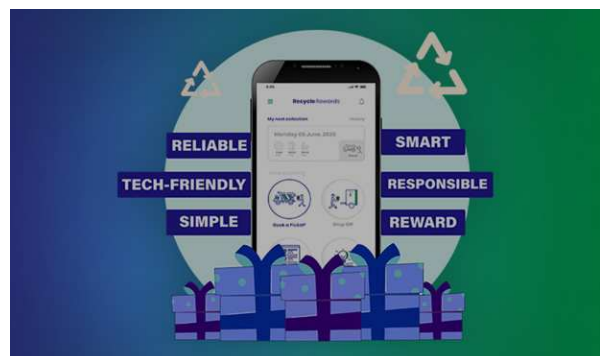
Nepra Resource Management Private Limited is India's leading waste management company that aims to solve several social and environmental challenges. Founded in 2006, in Ahmedabad, Gujarat, it operates pan-India, with **five material recovery facilities (MRFs)** and an **operating capacity of 560 metric tons per day (MTPD)**. NEPRA strives toward achieving its motto of "Zero Waste to Landfill" and "Closing the Loop", creating a circular economy. Its model is inclusive and creates a socio-economic and environmental impact.

The company helps communities and organisations become sustainable, efficient and organised, by implementing strategic environmental solutions. With its transparent, tech-driven and inclusive model, NEPRA is pioneering solutions for the challenges posed in the dry waste management sector.

The company's clients include government bodies such as Ahmedabad Municipal Corporation, Jamnagar Municipal Corporation and companies such as Le Meridien, Ramada, Tata Consultancy Services, Vodafone, Amazon, Aegis, Amul, Reliance Retail, and others.



WASTE MANAGEMENT



RECYCLE REWARDS

FEATURED COMPANY

PADCARE LABS**KEY PERSON****MS. AASAWARI KANE** - FOUNDED MEMBER

PadCare has developed and launched the **world's first sustainable Menstrual Hygiene Management Service (MHMS)** that aligns with issues such as women's empowerment, sustainability, and maintaining the dignity of waste pickers. The company provides a complete recycling solution through its **patented 5D technology to create harmless and sterilized output out of used sanitary pads**. It is further used to make products such as paper and packaging, and used in chemical industries.

Every year, 12 billion sanitary pads end up in the landfills of India. Owing to their plastic and SAP content, each one of these pads takes five centuries to decompose fully. Out of the 355 million menstruating women, 52.8% change their absorbents in overused and unhygienic public toilets where they deal with disgust and are exposed to heightened risk of UTIs. Moreover, used sanitary pads take up space and emit harmful gases. Waste pickers collect sanitary waste from urban localities without any protective gear.

To address all such issues and more, Padcare started its first community level project in Mahabaleshwar, Maharashtra. It provides its services to diverse sectors such as housing societies, schools and on a partnerships model, to bring about a collective impact that reduces the landfill space and harmful emissions that can be conserved, instead of burning used sanitary pads.



PADCARE VENDING MACHINE



PADCARE X

RECYKAL

KEY PERSON

MR. NEHAAL RAO - MARKETING & PR MANAGER

Recykal is a cleantech organization that helps businesses adopt sustainable practices to reduce their environmental footprint and rise as sustainability leaders in their industry. It provides digital solutions to enable positive change in the way businesses manage their sustainability-related processes and move towards a closed-loop circular economy.

Recykal is currently operational across India and has channelised more than 4,00,000 MT of waste and diverted them from landfills. Recykal has worked with 210+ brands, 1000+ bulk generators, 3000+ service providers and aggregators, and 325+ recyclers and co-processor.

It has been recognised by various international and national accolades including, the Digital India Award by President Ms Draupadi Murmu, Fast Company's Most Innovative Companies in APAC, and Tech Pioneer by the World Economic Forum.

The company's solutions include:

- Digital DRS: Under the Digital Deposit Refund System (dDRS), customers pay a small deposit amount when purchasing products with plastic packaging, which gets refunded to them upon returning the plastic bottle at any of the many deposit refund centres set up by Recykal. DRS was successfully implemented in the Kedarnath Yatra route.
- EPR: Digital platform for businesses to comply with the current Extended Producer Responsibility (EPR) regulations. With this online platform, businesses can plan and monitor their EPR fulfillment process in real-time.
- Circularity platform: A platform for helping EHS and sustainability officers with real-time visibility and actionable insights for efficient operations to improve their ESG scores.
- Plastic neutrality: A 360° traceability for brands to measure, plan and offset their plastic production and achieve plastic neutrality and stand out as a sustainability leader.



PAN INDIA COLLECTION POINTS



PLASTIC DEPOSIT REFUND CENTRE (DRS)

FEATURED COMPANY

SHAYNA ECOUNIFIED**KEY PERSON****MR. NITIN SRIVASTAVA** - CO-FOUNDER & CHIEF MARKETING OFFICER

Shayna EcoUnified is a Government of India recognized startup and ISO 9001:2015 certified company incorporated with the intent to reduce the dumping of plastic in the environment. It does this by creating affordable materials and structural products from recycled plastic waste, thus creating a cleaner tomorrow for the generations to come.

This has been made possible by collaborating with The Council of Scientific & Industrial Research (CSIR)-National Physical Laboratory (NPL), with whom this technology was developed, tested and certified for usage in multiple applications.

Using waste plastic, the company recycles and produces high performance materials in the form of paver tiles, furniture, panels, modules and units. Shayna holds the exclusive license for this technology in India. Till date, it has responsibly recycled over 20,00,000 kg of plastic waste and produced products for societal usage.

The output is durable, heat-resistant, weather-resistant, chip-resistant, acid-proof, corrosion-resistant, anti-static, anti-microbial, waterproof, and most importantly, recyclable. The products also offer better structural stability, a longer shelf life and are eco-friendly. Using Shayna's products leads to efficient plastic waste disposal, energy saving, carbon footprint earnings, promotes afforestation, and saves exploitation of fast-depleting natural reserves.

What's more, all products are tested on various parameters (including ROHS) by reputed labs such as National Physical Laboratory, Shriram Lab & SGS. The company's clients include Dehradun Cantonment Board, Municipal Corporation of Gurgaon, Kanpur Smart City, Greater Hyderabad Municipal Corporation, Department of Atomic Energy, Uttarakhand Pollution Control Board, Flood & Irrigation Department Delhi, Nestle, Perfetti Van Melle, L'Oreal, Bisleri, Tata Motors, Tata Power, Flipkart, Shell Petroleum and others.



FEW OF OUR WASTE MANAGEMENT PRODUCT DEVELOPED FROM RECYCLED MATERIAL



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SPRUCE UP

KEY PERSON**MS. NITI SURYAWANSHI - MARKETING LEAD**

Spruce Up is an original equipment manufacturer and innovator of JATAYU machines, which are India's first fully contactless public waste cleaning machines. These machines are especially designed and engineered to clean solid and plastic waste that often takes the form of garbage dumps on roadsides, highways, river and lake embankments, or around the market areas. This is mixed waste and extremely difficult to clean at scale. With JATAYU, which is like a large and powerful vacuum cleaner for cities and towns, this waste can be collected with ease and speed, creating a significant change in waste management practices.

Currently, JATAYU machines are deployed in over 45 cities across 18 states, including Mumbai, Delhi, Pune, Chennai, Dehradun, and Chandigarh. These machines are also operational in the United States, Japan, and New Zealand. So far, JATAYU machines have helped in cleaning more than 15,000 tons of garbage, which includes 1,600 tons of plastic waste.



JATAYU SUPER



JATAYU HD

FEATURED COMPANY

UNEAKO

KEY PERSON

MR. ANKIT TRIPATHI - FOUNDER

Uneako is an amalgamation of “unique” and “eco”, meaning that the company provides eco-friendly and sustainable products in a never-seen-before avatar.

With the motto of “sharing sustainable happiness”, the company strives to curb the environmental threats of climate change and plastic pollution by introducing an exclusive innovative range of climate positive product solutions, which are made using various organic, natural, industrial waste and biodegradable materials. Alongside, the company is also trying to support the marginalised communities of our society by employing them to heartcraft our products.

The company’s clients include Godrej Capital, Sopra Steria, MSME, Harvard Business School, NESAC, Veolia, and many more.



FOUNDING MEMBERS



UNEAKO PRODUCTS



A RANGE OF CLIMATE POSITIVE PRODUCTS

DOON CANTT SWACHATA CHAUPAL PARTICIPATION LIST

S.No	Company/SHG Name	Contact	Mobile No.
1	Aakanksha Enterprises	Mr. Girijesh Chaubey	7982602342
2	Alnati Ventures	Mr. Vinod Manchanda	7087417151
3	Anand Matta Trading Company	Mr. Anand Matta	7088991199
4	Araj Fashion	Ms. Monika	8929035447
5	Atterro Recycling Private Limited	Mr. Aashish Raina	9986860725
6	Biopapro Pvt Ltd	Mr. Sameer Ahmad	9819761236
7	Carrywell Packaging Pvt Ltd	Mr. Amitanshu	9999963870
8	Cipet CSTS Dehradun	Mr. Abhishek Rajvansh	7457001351
9	Clean India Ventures	Mr. Abhishek Gupta	9871692007
10	Comac India Private Ltd.	Mr. Pushpendra Singh	9899135506
11	Cosmic Healers Private Limited	Mr. Abhishek Garg	7042001271
12	Dharaksha Ecosolutions	Mr. Rudransh	7042009908
13	Eco Bambrin India Private Limited (EBIPL)	Dr. Nisha Tripathi	9873495609
14	Ecolastic Products Pvt Ltd	Mr. Manoj Kumar	9154995104
15	Econscious	Ms. Sonal Shukla	9582066095
16	Ecoware Solutions Private Limited	Mr. Rohit	8377004702
17	ELEFO Cleantech Private Limited	Mr. Rohit Kumar	9650507778
18	Energysure Eco Solutions Pvt Ltd	Dr. Sunit Nibheria	8826422130
19	Global WMC India Private Limited	Mr. Ronit Banerjee	7992311636
20	Goenvi Technologies Pvt. Ltd.	Mr. Manoj Natarajan	9833479123
21	Greenassets.in (Dehradun)	Mr. Romik Rai	9987917604
22	Himalaya Greens	Mr. Ashutosh Gupta	9418035001
23	Imaginative Flexipacks Ltd	Mr. Rakesh Bansal	9811319194
24	Indian Pollution Control Organization	Mr. Ashish Jain	9312432405

S.No	Company/SHG Name	Contact	Mobile No.
25	Kumar Engineering	Mr. Arbind Sharma	9650938241
26	Live Herbocare	Mr. Arjun Raj Prashar	7302908281
27	Mudita & Radhesh Private Limited	Mr. Radhesh	6377611021
28	Neptra Resource Management Private Limited	Mr. Ronak Vyas	9106610298
29	PadCare Labs Pvt. Ltd	Ms. Aasawari Kane	9811972874
30	Peoples Association for Total Help & Youth Applause	Mr. Girijesh Chaubey	7982602342
31	Plades innovations pvt.ltd	Mr. Abhijeet Roy	7906249017
32	Rayaka e ventures pvt ltd	Mr. Rajeev Sachar	9897274151
33	RCube Recycling Private Limited	Mr. Ravi Ravariya	8369684193
34	Recykal	Mr. Tapan	7008019261
35	Saahas	Mr. Satvik Manaktala	9654987002
36	Sava Eco Packaging LLP	Mr. Rajeev Gupta	9818256405
37	Scrapshala	Ms. Shikha Shah	8400029536
38	Shayna EcoUnified India Private Limited	Mr. Nitin Srivastava	7400068207
39	Spruce Up Industries Pvt Ltd	Ms. Niti Suryavanshi	8655992128
40	Track Mark International	Mr. Kunal Manchanda	9780174175
41	Uneako-Make Planet Happy	Mr. Ankit Tripathi	9650575205
42	Waste Warriors Society	Mr. Naveen Kumar Sadana	7895267144
43	Why Waste Wednesdays Foundation	Dr. Ruby Makhija	8800995594
44	Zero Waste Incorporation	Mr. Himanshu Patwal	9997440639
45	स्वदेश कुटुंब आजीविका स्वयं सहायता समूह	Ms. Tripti Thapa	7895944449
46	गोमती आजीविका स्वयं सहायता समूह	Ms. Hansee Parihar	7409118802
47	नित्य आजीविका स्वयं सहायता समूह	Ms. Dipanjali Sharma	9897563771
48	धरोहर आजीविका स्वयं सहायता समूह	Ms. Savita Lingwal	9411576085
49	पूजा शिव महिला स्वयं सहायता समूह	Ms. Sunita Chaudhary	8533852979
50	कालिका आजीविका स्वयं सहायता समूह	Ms. Sanchi	9997461377
51	SAF Hospitality (Uttarakhand Delicacies)	Mr. Rakesh Singh	9719766785

GALLERY











MEDIA COVERAGE

महिंद्रा ग्राउंड में तीन और चार फरवरी को होगी स्वच्छता चौपाल

जागरण संवाददाता, देहरादून: छावनी परिषद देहरादून आगामी तीन व चार फरवरी को महिंद्रा ग्राउंड में स्वच्छता चौपाल का आयोजन करेगा। जिसमें अपशिष्ट प्रबंधन, कूड़ा निस्तारण, कूड़े का जैविक उपचार (बायो रेमिडिएशन), विक्रमी उत्पादन सहित कई और पहलु पर विचार-विमर्श होगा। इसमें स्वच्छता से संबंधित विभिन्न मशीनों, तकनीकी समाधान व विभिन्न नवाचारी तकनीक की प्रदर्शनी भी लगाई जाएगी। स्वच्छता चौपाल का उद्घाटन राज्यपाल लेफ्टिनेंट जनरल (सेनि) गुरमीत सिंह करेंगे।

छावनी परिषद के मुख्य अधिकारी अभिनव सिंह ने बताया कि कूड़ा प्रबंधन आज एक चिंतनीय विषय है। उत्तराखंड एक वृद्धा राज्य है, इसलिए यहां को अप्रत्यक्षता भी अलग है। इस और चिंतन की प्रक्रिया तेज करने और नवाचारी तकनीक के समावेश के लिए यह आयोजन किया जा रहा है। उन्होंने बताया कि शहरी विकास विभाग के सहयोग से आयोजित इस कार्यक्रम में देशभर की कंपनियां हिस्सा लेंगी। स्वच्छता चौपाल

- छावनी परिषद देहरादून आयोजित कर रहा है ये कार्यक्रम
- विभिन्न नवाचारी तकनीक की भी लगाई जाएगी प्रदर्शनी

में प्रदेश के विभिन्न निकायों से अधिकारियों और निर्वाचित सदस्यों को आमंत्रित किया गया है। साथ ही पंचायती राज विभाग से भी आग्रह किया गया है कि वह भी संबंधित अधिकारों और निर्वाचित सदस्यों इस कार्यक्रम में भागे।

इस दौरान उत्तराखंड में अपशिष्ट प्रबंधन, स्वच्छता के क्षेत्र में स्टार्टअप, वैकल्पिक स्वच्छता तकनीक, सफाई कर्मचारियों की समस्याएं आदि पर पैनल डिस्कशन भी होगा। इससे कूड़ा प्रबंधन व निस्तारण के लिए राज्य स्तर पर किए जा रहे विभिन्न प्रयासों को धार मिलेगी। वहीं, इस महत्वपूर्ण मुद्दे पर साझा रणनीति बनाने में भी यह आयोजन मददगार होगा।

उत्तराखंड को खबरें पढ़ें www.jagran.com/state/uttarakhand

Segregate waste at home to help us: Sanitation workers

Tanmayee Tyagi
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Sanitation workers say they often get exposed to hazardous waste and medical waste, which wouldn't happen if they were separated at source

Dehradun: Sanitation workers in the city have claimed that despite improvements in the field, they are still exposed to hazardous waste disposed of incautiously, and demanded waste segregation at the household level.

The sanitation workers said during a session at the Doon Cantt Swachhta Choupal that waste segregation happens at the trenching ground or at collection points, but resources including time, money, and manpower can be saved if source segregation happens. "At times, we are exposed to medical and hazardous waste which is disposed of

with regular garbage. With experience, we now know what packets may be harmful, but occasionally accidents do happen," said Arti Devi, a sanitation worker.

Vinod Kumar, cleanliness superintendent at the Dehradun cantonment board, said, "In the last 20 years, a lot of things have changed in the

field of waste management. Compared to earlier years, we are now treated better by the public. However, many things still need to change."

The Swachhta Choupal concluded on Saturday with the launch of a tech competition.

Cantt Board CEO Abhinav Singh said, "We have participation from 51 companies and startups that are working in the field of waste management." Cabinet minister Premechand Agarwal lauded the effort and said that it was important to take these initiatives throughout the state.

Several speakers underlined the fact that waste should be seen as a resource instead of a problem.

चौपाल में माउंटेन स्वच्छता चैलेंज लॉन्च

कैंट स्वच्छता चौपाल का कैबिनेट मंत्री प्रेमचंद अग्रवाल ने किया समापन

dehradun@inext.co.in

DEHRADUN (4 Feb): गद्दी कैंट स्थित कैंट स्वच्छता चौपाल का शनिवार को उत्तराखंड को स्वच्छ और सुन्दर बनाने के संकल्प के साथ संपन्न हुआ। चौपाल के दूसरे दिन माउंटेन स्वच्छता टेकनीकल चैलेंज लॉन्च किया गया। इस चैलेंज के माध्यम से कंपनियों, स्टार्ट अप्स और छात्र-छात्राओं को ऐसी तकनीकी ईजाद करने की दिशा में काम करने के लिए कहा गया, जो पहाड़ी ढलानों से कचरा कलेक्ट करने में सक्षम हो। मुख्यमंत्री की गैर मौजूदगी में कैबिनेट मंत्री प्रेमचंद अग्रवाल ने स्वच्छता चौपाल का समापन किया। कैबिनेट मंत्री गणेश जोशी ने समापन समारोह की अध्यक्षता की, जबकि



PIG: DAINIK JAGRAN | NEXT

● चौपाल में ली स्वच्छता की शपथ

विधायक सविता कपूर विशिष्ट अतिथि के रूप में मौजूद थीं। वक्ताओं ने इस बात को मुख्य रूप से रेखांकित किया कि कचरे को समस्या के बजाय संसाधन बनाएं।

धारणा में आगमा बदलाव

स्वच्छता चौपाल के दूसरे दिन की शुरुआत चौपाल पर चर्चा स्वच्छता एक पाठ से हुई। चर्चा में हिस्सा लेने वाले वक्ताओं ने इस तरह की पहल का स्वागत किया। वक्ताओं का कहना था कि कंपनियों के लिए अपने उत्पादों को प्रदर्शित करने के लिए यह मंच

महत्वपूर्ण साबित होगा और कचरे को लेकर आम जनमानस में जो धारणा है, उसमें बदलाव आएगा। वक्ताओं ने स्वच्छता चौपाल को कूड़े की नुमाइश के रूप से रेखांकित किया। कचरा संग्रोहण को चर्चा का चौपाल में स्वच्छता का मूल मंत्र बताया कहा गया कि कचरे को समस्या के बजाय संसाधन बनाने की दिशा में काम किया जाना चाहिए। इससे एक तरफ जहां जगह-जगह बिखरे कचरे की समस्या हल होगी, वहीं दूसरी तरफ कचरे से

For more news log on to www.inextive.com/dehradun

हिल्स में कैसे हो गार्बेज मैनेजमेंट, किया जाएगा मंथन

कैंट स्वच्छता चौपाल के दूसरे दिन इस बात पर खास तौर पर चर्चा हुई कि अब तक स्वच्छता के लिए जो मशीनें बनी हैं, वे मैदानी क्षेत्रों के लिए हैं, पर्वतीय और हिमालयी क्षेत्रों में पहाड़ी ढलानों और दुर्गम पहाड़ियों से कचरा कलेक्ट करने की अभी कोई तकनीकी उपलब्ध नहीं है। माउंटेन स्वच्छता टेकनीकल चैलेंज के माध्यम से स्वच्छता के लिए मशीनें बनाने वाली कंपनियों के साथ ही स्टार्ट अप्स और विद्यार्थियों को इस तरह की कोई तकनीकी ईजाद करने के लिए प्रेरित किया गया, जिससे कि दुर्गम पहाड़ी ढलानों से कचरा कलेक्ट किया जा सके।

आर्थिक लाभ भी हो सकेगा।

अनुभव किए साझा

दिन का पहला पैनल डिस्कशन स्वच्छ स्टार्ट अप और इन्वेंशन के उभरते परिदृश्य पर केन्द्रित था। इस पैनल डिस्कशन में तीन सफल स्टार्ट-अप के संस्थापक सदस्यों ने कचरा प्रबंधन पर अपने अनुभव साझा किये और इस क्षेत्र में आने वाली समस्याओं के साथ ही इन समस्याओं के समाधान भी सुझाये। कार्यक्रम के आखिरी पैनल डिस्कशन में स्वच्छता कार्यकर्ताओं के निजी जिन्दगी में सामने आने वाली

समस्याओं और जटिलताओं पर था। इस पैनल डिस्कशन में चार ऐसे सफाई मित्रों को सामने लाया गया जो कचरा प्रबंधन के क्षेत्र में महत्वपूर्ण भूमिका निभा रहे हैं। इन कार्यकर्ताओं ने सफाई के काम में आम तौर पर सामने आने वाली समस्याओं के बारे में अपने अनुभव बताये। जिन 51 कंपनियों ने चौपाल में आयोजित प्रदर्शनियों में हिस्सा लिया। समापन समारोह में उन्हीं सर्टिफिकेट दिये गये। मुख्य अतिथि और अन्य अतिथियों ने कंपनियों के लिए इस कार्यक्रम को महत्वपूर्ण बताया।

स्वच्छता के असली सिपाही हैं सफाई कर्मचारी : राज्यपाल



कार्यक्रम में बोलते राज्यपाल लेफ्टिनेंट जनरल गुरमीत सिंह (सेनि.)

संवाद न्यूज एजेंसी

देहरादून। राज्यपाल लेफ्टिनेंट जनरल गुरमीत सिंह (सेनि.) ने गद्दी कैंट स्थित महिंद्रा ग्राउंड (शहीद जयवंत सिंह मैदान) में कैंट बोर्ड की ओर से आयोजित दो दिवसीय स्वच्छता चौपाल का उद्घाटन किया। उन्होंने सफाई कर्मियों को स्वच्छता का सच्चा सिपाही बताया। कहा कि पर्यटन व लीवर्टिन के लिहाज से उत्तराखंड के लिए स्वच्छता के खास मायने हैं।

शुक्रवार को कार्यक्रम के दौरान राज्यपाल ने कहा कि स्वच्छता में ही ईश्वर का वास होता है। जिस प्रकार हम अपने घर को साफ रखते हैं, उसी प्रकार गली-मोहल्लों को भी साफ रखें। कहा कि अब समय आ गया है कि प्लास्टिक और वेस्ट मेटेरियल पर नभैला से

राज्यपाल ने गद्दी कैंट स्थित महिंद्रा ग्राउंड में किया स्वच्छता चौपाल का उद्घाटन

विचार किया जाए। राज्यपाल ने ईश्वर के स्वच्छता मॉडल को तारीफ करते कहा कि स्वच्छता के लिए सभी की सहभागिता जरूरी है। अपशिष्ट प्रबंधन व कूड़ा निस्तारण में तकनीक के समावेश को उन्होंने प्रभावी बताया।

उन्होंने कहा कि स्वच्छता मित्रों का सम्मान बेहद जरूरी है, क्योंकि वे ईश्वर के सबसे बड़े दूत हैं, जो हमारे आसपास स्वच्छता बनाए रखने में सहयोग देते हैं। यह कार्यक्रम शहरी विकास निदेशालय के सहयोग से आयोजित किया जा रहा है। एसडीसी फाउंडेशन इसमें नॉलेज पार्टनर की भूमिका निभा रहा है।

इस मौके पर महानिदेशक रक्षा संपदा अजय कुमार शर्मा ने समस्त अधिकारियों एवं कर्मचारियों को स्वच्छता की शपथ दिलाई। कैंट बोर्ड सर्टिफिकेटों ने बताया कि कार्यक्रम समाप्त होने के बाद एक विस्तृत रिपोर्ट तैयार की जाएगी। इस रिपोर्ट को केंद्र व राज्य सरकार, सभी नगर निकायों और कैंट बोर्ड के साथ ही अन्य हितधारकों के साथ साझा किया जाएगा।

उद्घाटन सत्र में निदेशक रक्षा संपदा डॉ. डॉणर यादव, कैंट बोर्ड के अध्यक्ष मिर्गोडियर अनिबन्त दत्ता, निदेशक शहरी विकास नवनीत पांडे, सोशल डेवलपमेंट फोर कम्प्यूटरी फाउंडेशन (एसडीसी) के अध्यक्ष अनूप नीटवाल, कैंट बोर्ड के मुख्य अधिकारी अधिकारी अभिनव सिंह आदि मौजूद रहे।

स्वच्छता को अपनी जिम्मेदारी मानें आमजन: जोशी

■ सहारा न्यूज ब्यूरो
देहरादून।

कृषि एवं कृषक कल्याण मंत्री गणेश जोशी ने शनिवार को केंद्र बोर्ड की ओर से गढ़ी केंद्र स्वच्छता चौपाल श्रावण में दो दिवसीय दून केंद्र स्वच्छता चौपाल के समापन कार्यक्रम में प्रतिभाग किया। वेस्ट मैनेजमेंट टेक्नोलॉजी और स्वच्छता की थीम पर आधारित इस चौपाल में प्रदेश के नगर निकाय और पंचायत प्रतिष्ठानों समेत देशभर के स्वच्छता उपकरण निर्माण कंपनियों और स्टार्टअप प्रतिष्ठानों ने हिस्सा लिया। प्रदेश में पहली बार इस तरह की चौपाल का यह आयोजन किया गया। इस अवसर पर कैबिनेट मंत्री जोशी ने कहा स्वच्छता चौपाल के माध्यम से ठोस कचरा प्रबंधन से जुड़े सभी लोगों को इस क्षेत्र में हो रहे नये कार्यों, रूढ़ानों और तकनीकों को समझने व उन पर अमल करने के लिए एक बेहतर प्रयास किया गया है। साथ ही लगातार बढ़ते कचरे की चुनौतियों का मुकाबला करने के लिए सबसे बेहतर तकनीकी तलाश कर रहे सरकारी अधिकारियों, नोडल अधिकारियों व अन्य सभी संबंधित लोगों को चौपाल में नये उत्पादों और नई तकनीकों से परिचित होने का अवसर प्राप्त होगा। यह चौपाल उद्योगों और नवोन्मेषकों

- केंद्र बोर्ड की ओर से दो दिवसीय दून केंद्र स्वच्छता चौपाल कार्यक्रम का समापन
- वेस्ट मैनेजमेंट टेक्नोलॉजी और स्वच्छता की थीम पर आधारित रही चौपाल

को स्वच्छता और प्रदूषण मुक्त वातावरण तैयार करने के लिए नवाचार करने में सहयोग करेगी। इसके साथ ही छवतियों और शहरी स्थानीय निकायों के सामने ठोस कचरे को लेकर आने वाली चुनौतियों को समझने और उनका समाधान तलाशने का अवसर भी प्रदान करेगी। उन्होंने कहा कि सार्वजनिक स्वच्छता की इस मुहिम से जोड़ कर स्वच्छता को एक देशव्यापी अभियान देश के प्रधानमंत्री नरेंद्र मोदी ने बनाया है। उन्होंने कहा भारत देश को विकास की गई राह पर ले चलने वाले प्रधानमंत्री नरेंद्र मोदी ने बापू के जन्म दिवस से अक्टूबर 2014 स्वच्छता का एक देशव्यापी अभियान छेड़ा। जिसका प्रतिफल यह स्वच्छता चौपाल है, जिसमें हम सभी यहां आकर प्रतिभाग कर रहे हैं। उन्होंने कहा सार्वजनिक स्वच्छता के लक्ष्य को शतप्रतिशत प्राप्त करने तथा आने वाले भविष्यों के लिए एक ज्यादा बेहतर राह

बनाने के लिए आधुनिक तकनीक अत्यधिक जरूरी है। मंत्री जोशी ने केंद्र बोर्ड सदस्यों को बधाई देते हुए कहा कि स्वच्छता की मुहिम में सबसे ज्यादा जरूरी कदम स्वच्छता के प्रति सबके नजरिए में बदलाव लाना है। उन्होंने स्वच्छता चौपाल में पहुंचने सभी टेक्नोलॉजी पार्टनेरों से आभारन करते हुए कहा कि ऐसे तकनीकी उपकरण बनाएँ जो इस राज्य की भौगोलिक बनावट के अनुकूल भी हो और निकायों के बजट में भी आते हों। उन्होंने कहा जब तक हम स्वच्छता को अपने व्यवहार का हिस्सा नहीं बनाएँगे तब तक संस्थाओं के प्रयास काम ही साबित होंगे। उन्होंने केंद्र बोर्ड के प्रति जागरूकता एवं प्रयास और व्यवहार परिवर्तन के लिए विशेष प्रयास करने और परिवर्तन मित्रों को जो इस अभियान को ईंधित करेगा है उन्हें प्यार और सम्मान जताएँ।

इस अवसर पर शहरी विकास मंत्री प्रमोद अग्रवाल, केंद्र विधायक रविनात कपूर, विधायक शहरी विकास नवनीत पाण्डे, डे. क्रिश्चियर अर्नानदास, सोईओ केंद्र बोर्ड अभिमत सिंह, अरुण नौटियाल, विष्णु गुप्ता, मेधा भट्ट, राजेश अग्रवाल सभी मौजूद थे।



स्वच्छता की रूपय लेते कैबिनेट मंत्री गणेश जोशी और प्रमोद अग्रवाल।

स्वच्छता: दून में अनूठी चौपाल

■ सहारा न्यूज ब्यूरो
देहरादून।

कृषि एवं कृषक कल्याण मंत्री गणेश जोशी ने शनिवार को केंद्र बोर्ड की ओर से गढ़ी केंद्र स्वच्छता चौपाल श्रावण में दो दिवसीय दून केंद्र स्वच्छता चौपाल के समापन कार्यक्रम में प्रतिभाग किया। वेस्ट मैनेजमेंट टेक्नोलॉजी और स्वच्छता की थीम पर आधारित इस चौपाल में प्रदेश के नगर निकाय और पंचायत प्रतिष्ठानों समेत देशभर के स्वच्छता उपकरण निर्माण कंपनियों और स्टार्टअप प्रतिष्ठानों ने हिस्सा लिया। प्रदेश में पहली बार इस तरह की चौपाल का यह आयोजन किया गया। इस अवसर पर कैबिनेट मंत्री जोशी ने कहा स्वच्छता चौपाल के माध्यम से ठोस कचरा प्रबंधन से जुड़े सभी लोगों को इस क्षेत्र में हो रहे नये कार्यों, रूढ़ानों और तकनीकों को समझने व उन पर अमल करने के लिए एक बेहतर प्रयास किया गया है। साथ ही लगातार बढ़ते कचरे की चुनौतियों का मुकाबला करने के लिए सबसे बेहतर तकनीकी तलाश कर रहे सरकारी अधिकारियों, नोडल अधिकारियों व अन्य सभी संबंधित लोगों को चौपाल में नये उत्पादों और नई तकनीकों से परिचित होने का अवसर प्राप्त होगा। यह चौपाल उद्योगों और नवोन्मेषकों



स्वच्छता को प्रमोद अग्रवाल और प्रमोद अग्रवाल।

को स्वच्छता और प्रदूषण मुक्त वातावरण तैयार करने के लिए नवाचार करने में सहयोग करेगी। इसके साथ ही छवतियों और शहरी स्थानीय निकायों के सामने ठोस कचरे को लेकर आने वाली चुनौतियों को समझने और उनका समाधान तलाशने का अवसर भी प्रदान करेगी। उन्होंने कहा कि सार्वजनिक स्वच्छता की इस मुहिम से जोड़ कर स्वच्छता को एक देशव्यापी अभियान देश के प्रधानमंत्री नरेंद्र मोदी ने बनाया है। उन्होंने कहा भारत देश को विकास की गई राह पर ले चलने वाले प्रधानमंत्री नरेंद्र मोदी ने बापू के जन्म दिवस से अक्टूबर 2014 स्वच्छता का एक देशव्यापी अभियान छेड़ा। जिसका प्रतिफल यह स्वच्छता चौपाल है, जिसमें हम सभी यहां आकर प्रतिभाग कर रहे हैं। उन्होंने कहा सार्वजनिक स्वच्छता के लक्ष्य को शतप्रतिशत प्राप्त करने तथा आने वाले भविष्यों के लिए एक ज्यादा बेहतर राह

अधिकारी-कर्मचारी स्वच्छता पर समझें अपनी जिम्मेदारी

■ सहारा न्यूज ब्यूरो
देहरादून।

प्रदेश के स्वच्छता लेवेलिंग डायरेक्टर (सीई) गुरमीत सिंह ने केंद्र बोर्ड के अध्यक्ष के तौर पर दो दिवसीय दून केंद्र स्वच्छता चौपाल श्रावण में दो दिवसीय दून केंद्र स्वच्छता चौपाल के समापन कार्यक्रम में प्रतिभाग किया। वेस्ट मैनेजमेंट टेक्नोलॉजी और स्वच्छता की थीम पर आधारित इस चौपाल में प्रदेश के नगर निकाय और पंचायत प्रतिष्ठानों समेत देशभर के स्वच्छता उपकरण निर्माण कंपनियों और स्टार्टअप प्रतिष्ठानों ने हिस्सा लिया। प्रदेश में पहली बार इस तरह की चौपाल का यह आयोजन किया गया। इस अवसर पर कैबिनेट मंत्री जोशी ने कहा स्वच्छता चौपाल के माध्यम से ठोस कचरा प्रबंधन से जुड़े सभी लोगों को इस क्षेत्र में हो रहे नये कार्यों, रूढ़ानों और तकनीकों को समझने व उन पर अमल करने के लिए एक बेहतर प्रयास किया गया है। साथ ही लगातार बढ़ते कचरे की चुनौतियों का मुकाबला करने के लिए सबसे बेहतर तकनीकी तलाश कर रहे सरकारी अधिकारियों, नोडल अधिकारियों व अन्य सभी संबंधित लोगों को चौपाल में नये उत्पादों और नई तकनीकों से परिचित होने का अवसर प्राप्त होगा। यह चौपाल उद्योगों और नवोन्मेषकों

- राज्यपाल एन. जे. तेलंग
- गुरमीत सिंह ने गढ़ी केंद्र स्वच्छता चौपाल का शुभारंभ
- शहरी विकास विभाग, केंद्र बोर्ड और एसडीसी फाउंडेशन ने आयोजित किया कार्यक्रम

गंधीदास से विचार किया जाए और उन-आयुक्तकाम फौजदार जाए। उन्होंने कहा कि 2014 से देश में स्वच्छता को लेकर एक नई क्रांति की शुरुआत हुई है, जिसे प्रगल्भता नरेंद्र मोदी ने स्वच्छ भारत मिशन के रूप में आगे बढ़ाया। यह शुरुआत है और अभी कदम में बढ़ाव की यह तरह दूरे तक आनी। राज्यपाल ने दून केंद्र स्वच्छता चौपाल को सफल बनाने के लिए सभी को सहभागिता जरूरी है। अर्थात् स्वच्छता व कृषि मिशन में एकत्रित करने को सफल बनाने की उम्मीदें प्रभावित करनी।



स्वच्छता चौपाल के उद्घाटन अवसर पर राज्यपाल एन. जे. तेलंग गुरमीत सिंह व अन्य।

केंद्र व राज्य सरकार से साझा करेंगे रिपोर्ट वेस्ट को बनाया वेस्ट मैनेजियल स्वच्छता चौपाल में प्रदर्शनी भी लगाई गई है, जिसमें कृषि विभाग की मशीन, स्वच्छता उपकरण, बायोडिग्रेडेबल उत्पाद, प्लास्टिक वेस्ट से की उत्पाद, कचरे प्रबंधन आदि के 21 स्टाल लगाए गए। राज्यपाल ने इन स्टालों का निरीक्षण कर आभूतिक उपकरणों व प्लास्टिक वेस्ट से बने उत्पादों को जायगीली की।

स्वच्छता चौपाल में प्रदर्शनी भी लगाई गई है, जिसमें कृषि विभाग की मशीन, स्वच्छता उपकरण, बायोडिग्रेडेबल उत्पाद, प्लास्टिक वेस्ट से की उत्पाद, कचरे प्रबंधन आदि के 21 स्टाल लगाए गए। राज्यपाल ने इन स्टालों का निरीक्षण कर आभूतिक उपकरणों व प्लास्टिक वेस्ट से बने उत्पादों को जायगीली की।

दून में तीन और चार फरवरी को आयोजित होगी स्वच्छता चौपाल

■ सहारा न्यूज ब्यूरो
देहरादून।

कृषि एवं कृषक कल्याण मंत्री गणेश जोशी ने शनिवार को केंद्र बोर्ड की ओर से गढ़ी केंद्र स्वच्छता चौपाल श्रावण में दो दिवसीय दून केंद्र स्वच्छता चौपाल के समापन कार्यक्रम में प्रतिभाग किया। वेस्ट मैनेजमेंट टेक्नोलॉजी और स्वच्छता की थीम पर आधारित इस चौपाल में प्रदेश के नगर निकाय और पंचायत प्रतिष्ठानों समेत देशभर के स्वच्छता उपकरण निर्माण कंपनियों और स्टार्टअप प्रतिष्ठानों ने हिस्सा लिया। प्रदेश में पहली बार इस तरह की चौपाल का यह आयोजन किया गया। इस अवसर पर कैबिनेट मंत्री जोशी ने कहा स्वच्छता चौपाल के माध्यम से ठोस कचरा प्रबंधन से जुड़े सभी लोगों को इस क्षेत्र में हो रहे नये कार्यों, रूढ़ानों और तकनीकों को समझने व उन पर अमल करने के लिए एक बेहतर प्रयास किया गया है। साथ ही लगातार बढ़ते कचरे की चुनौतियों का मुकाबला करने के लिए सबसे बेहतर तकनीकी तलाश कर रहे सरकारी अधिकारियों, नोडल अधिकारियों व अन्य सभी संबंधित लोगों को चौपाल में नये उत्पादों और नई तकनीकों से परिचित होने का अवसर प्राप्त होगा। यह चौपाल उद्योगों और नवोन्मेषकों

को स्वच्छता और प्रदूषण मुक्त वातावरण तैयार करने के लिए नवाचार करने में सहयोग करेगी। इसके साथ ही छवतियों और शहरी स्थानीय निकायों के सामने ठोस कचरे को लेकर आने वाली चुनौतियों को समझने और उनका समाधान तलाशने का अवसर भी प्रदान करेगी। उन्होंने कहा कि सार्वजनिक स्वच्छता की इस मुहिम से जोड़ कर स्वच्छता को एक देशव्यापी अभियान देश के प्रधानमंत्री नरेंद्र मोदी ने बनाया है। उन्होंने कहा भारत देश को विकास की गई राह पर ले चलने वाले प्रधानमंत्री नरेंद्र मोदी ने बापू के जन्म दिवस से अक्टूबर 2014 स्वच्छता का एक देशव्यापी अभियान छेड़ा। जिसका प्रतिफल यह स्वच्छता चौपाल है, जिसमें हम सभी यहां आकर प्रतिभाग कर रहे हैं। उन्होंने कहा सार्वजनिक स्वच्छता के लक्ष्य को शतप्रतिशत प्राप्त करने तथा आने वाले भविष्यों के लिए एक ज्यादा बेहतर राह

Important to keep cities & tourism sites clean: Lt Gen Singh

By OUR STAFF REPORTER
DEHRADUN, 3 Feb: Governor Lt General Gurmit Singh (Retd) inaugurated the two-day "Doon Swachhata Choupal", a conclave on sanitation, organised by the Dehradun Cantonment Board at Mahindra Grounds, here, today.

On this occasion, the Governor also inspected various stalls and inquired about waste disposal equipment made with modern technology and products made from plastic waste. Appreciating the stalls engaged in the programme, the Governor noted that various institutions and social organisations convert the waste material into useful material, a highly commendable effort. Congratulating the Cantonment Board for this event, he said that the time has come to seriously deal with plastic and waste material and spread public awareness about it. The Governor said that, from the 2014, a new revolution regarding cleanliness had started in the country, which has been taken forward by the Prime



Minister in the form of 'Swachh Bharat Mission'. He said that this is the beginning of change and this wave would go far in the coming times. He also expected all the urban bodies and panchayat chiefs present to make their urban bodies cleaner by adopting the Indore model in their respective areas. The Governor said it is very important to respect Swachhtha Mitras to maintain sanitation and cleanliness. Swachhtha Mitras are the biggest messengers of God, who help society in maintaining cleanliness. He said that India is moving forward as

a developed nation. Uttarakhand is also moving fast in various fields. The Governor said that there are immense possibilities for tourism in Uttarakhand, it is very important to keep the tourist places clean. There would be further increase in the number of tourists in Uttarakhand's religious and tourist places as a result of greater cleanliness, through which the economy of the state would also improve further. Singh asserted that he had confidence that through this two-day choupal, the representatives of all the municipal bodies would take a resolution and make their area cleaner and better. Director General, Defence Estates, Ajay Kumar Sharma, Director, Defence Estates, Dr DN Yadav, Cantt Board President Brig Anirban Dutta, Director, Urban Development, Navneet Pandey, Social Development for Community Foundation (SDC) President Anoop Nautiyal, Cantt Board Chief Executive Officer Abhinav Singh were among those present on the occasion.

WHAT OUR PARTICIPANTS HAD TO SAY!

The programme will be even more successful with better arrangements and better marketing and outreach.

Shikha Shah

Founder, Scrapshala

scrapshala.com

Such programmes should be held regularly and then will help a lot.

Sunita Chaudrey

President, Puja Shiv Mahila Swayam Sahayata Samuh

Such a programme can become even better with the right kind of targeted marketing and making people aware about it. Also, food is a big attraction at such summits; the food here was quite average. It was a good attempt for such an event that was held for the first time.

Rudransh Garg

CSCO, Dharaksha Ecosolutions, New Delhi

dharaksha.com

Such an event should be promoted and marketed a lot for even more participation.

Monika

Proprietor, Araj Fashion, Delhi

arajfashion.com

Such an event should be organised twice a year for more benefit.

Vinod Manchanda

Track Mark International, Chandigarh

Such an event needs more publicity and stakeholder engagement.

Dr Ruby Makhija

Founder, Why Waste Wednesdays, New Delhi

whywastewednesdays.com

Such programmes should be held more times, and SHGs should be promoted better.

Ronit Banerjee

Project Manager, Global WMC India Pvt Ltd, Dehradun

There should be more engagement with decision makers for better networking.

Khushboo Singh

Sales and Marketing, Padcare Labs Pvt Ltd, New Delhi

padcarelabs.com

You should invite more industries, local people and those from the hospitality industry.

Ashutosh Gupta

Himalayan Greens, Nahan

himalayagreens.com

Stall sizes can be bigger. More government officials and people from the corporate world should be invited.

Ankit Tripathi

Founder, Uneako

uneako.com

The footfall was low because the venue was quite far from the city.

Rajeev Gupta

Partner, Sava Eco Packaging, Neemrana

Such an event needs better marketing, advertising and promotions.

Nilesh Matta

Proprietor, Anand Matta Trading Co.

It was a great event but better advertising would have brought in more footfall.

Saachi

Marketing Strategy, Gram Haar Women World, Dehradun

Encouraging participation of local entrepreneurs, NGOs and CBOs will make the event even more successful

Tapan Kumar Mohanta

Project Lead, Recykal, Telangana

recykal.com



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